



CAT

IPE SYSTEM
INFINITE
PLUS

EXTREME

PrimeTool

鼎朋企業股份有限公司





PrimeTool



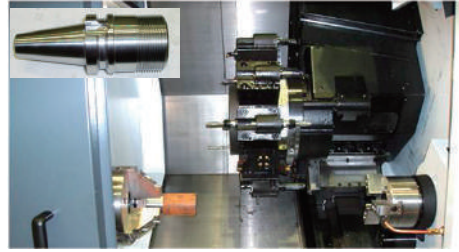
COMPANY INTRODUCTION

Uncompromising Quality Utilizing State-of-the-Art Facilities and Equipment



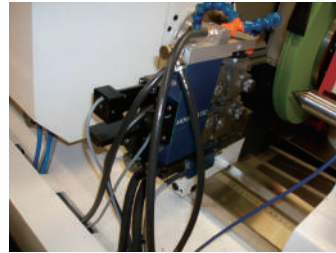
DMG-MORI Multitasking CNC Machines

- ◆ The work piece is completed in a single set-up.
- ◆ Assures the best qualities at the first step.

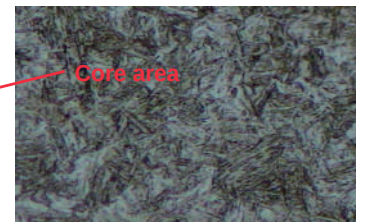
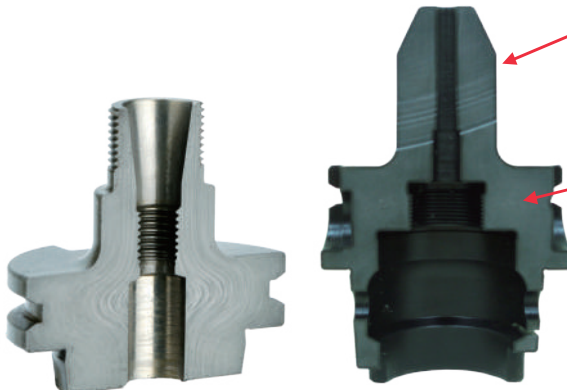
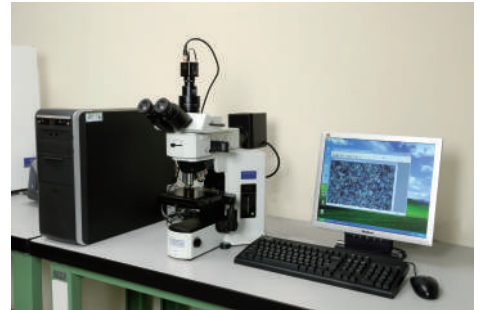


STUDER State-of- art Grinding Machines

- ◆ Multitask CNC grinder with flexible grinding functions.
- ◆ External or internal diameter, thread, facing, or profile can be ground in same process.
- ◆ High-resolution B axis 0.0001°
- ◆ High precision in-process measuring system.
- ◆ Guarantees the highest levels of precision and repeatability.



High Precision Measuring and Quality Assurance Inspection Equipment



QUALITIES OF *PrimeTool* TOOL HOLDERS

• PRODUCT FEATURES

PrimeTool toolholders are manufactured using state-of-the-art technology and the latest HSM concepts. Our products are of the finest quality and highest durability. The best choice for high-precision and high speed machining.

Taper, faces and V-flange are ground in a single process

●

● Taper Angle Tolerance :AT3+ or better
100% dimension check using high precision in-process measuring systems

ID bore taper, faces and thread were ground in a single process

●

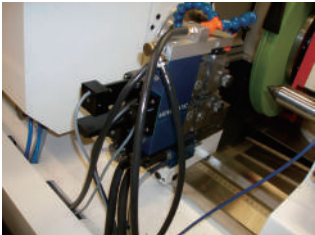
● Seating Runout:0.00012"(0.003mm)

● 4D Runout w/AA collet:0.0002"(0.005mm)
4D Runout w/A collet:0.00039"(0.010mm)

Pre-Balanced ER collet nut design

●





• TAPER ANGLE TOLERANCE : BETTER THAN AT3⁺

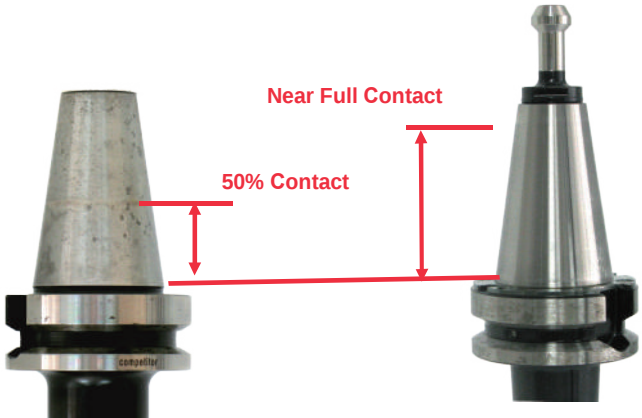


Machining requirements for AT grade : (ISO1947)

Grade	Description
AT5	The loosest fit and a poor choice for precision machining.
AT4	Acceptable for normal everyday machining.
AT3	Precision fit. Lowest standard for high precision machining.
AT2	High precision fit and close to "gauge" quality, suitable for high precision machining.
AT1	Highest fit and equal to "gauge" quality.

DIN 2080 STANDARDS AT grade standards:

Grade	ATD				
Taper No	AT1	AT2	AT3	AT4	AT5
SK30			2μ	3μ	5μ
SK40	1.3μ	2.0μ	3μ	5μ	7μ
SK50	1.6μ	2.5μ	4μ	6μ	9μ



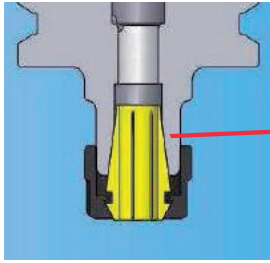
AT5 Grade: Other Suppliers

- ◆ Damages expensive spindles
- ◆ Degrades machining precision
- ◆ Increases machining costs
- ◆ Fretting corrosion on the taper
- ◆ Less precision than your competitors

AT1 Grade: PrimeTool

- ◆ Protects expensive spindles
- ◆ Upgrades machining precision
- ◆ Lowers machining costs
- ◆ Better precision than your competitors

• ID BORE, FACE and THREAD are Ground in a Single Process



- ◆ Studer Multitask CNC grinders with flexible grinding features that offers state-of-art quality.
- ◆ The highest precision.
- The ID bore, OD and thread are ground in a single process.
- ◆ **Seat Runout of ID bore: 0.003mm (0.00012")**
- ◆ Better machining precision
- ◆ Better surface finish
- ◆ Extended tool life

• PRE-BALANCED ER NUT DESIGN

- ◆ Reducing unbalance variance after multiple uses
- ◆ Hard surface treatment of the nut resists wear and damage from gauling, and extend tool life.
- ◆ Flexible design allow the use of different nuts, such as: Mini, Standard, High-Balanced, or Coolant Nut...



Mini Nut



Hex



Spanner



Ball Bearing Nut



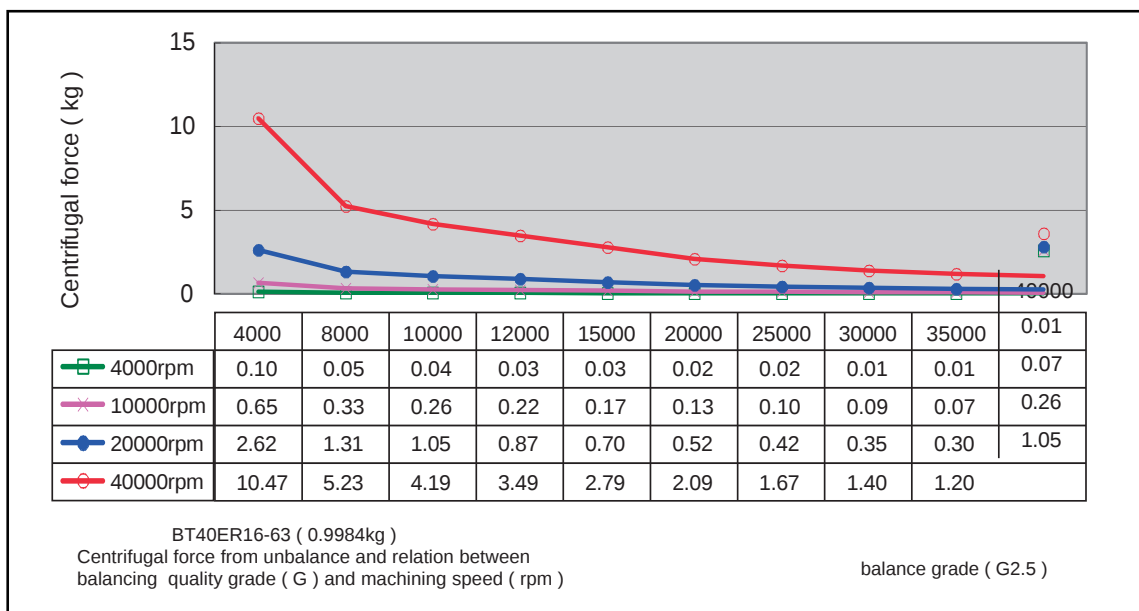
Coolant Nut

Ball Bearing Coolant Nut



• BALANCING

- ◆ Extended tool life, better dimension accuracy, improved surface finish, increased productivity and lower machining cost.
- ◆ G6.3 25000 rpm as standard.
- ◆ Option to G2.5 25000 rpm or higher.
- ◆ Reducing cutting force and vibration.
- ◆ Example: balanced to G2.5,4000 rpm (see table)
Spindle cutting force at 4000rpm : 0.10kg (0.23 lb)
Spindle cutting force at 40000rpm : 10.47kg (23.46lb)
- ◆ Example: balanced to G2.5,40000rpm (see table)
Spindle cutting force at 4000rpm : 0.01kg (0.02 lb)
Spindle cutting force at 40000rpm : 1.047kg (0.235lb)



CONTENTS - CAT SHANK TOOL HOLDERS:

STANDARD TOOL HOLDERS:

- Wide applications for general and high-precision machining.
- All toolholders are manufactured using cutting-edge technology and machines.
- Using holders of finest quality ensures that the machine shops achieve maximum efficiency with the highest precision.

	Roughing	Finishing	Fine Finishing	Hard Milling
Slotting	✓	✓	✓	✓
Side Milling	✓	✓	✓	✓
Contour Milling	✓	✓	✓	✓
Profiling	✓	✓	✓	✓

	Aerospace	Automotive	Die/Mold	Power/Energy	Medical	General Machining
Application	✓	✓	✓	✓	✓	✓



P15

M20
ER Collet Chuck
MINI NUT



P16~17

020
ER Collet Chuck



P18~21

030
End Mill Holder
COOLANT SLOT



P22~24

040
End Mill Holder



P25

070
Morse Taper Holder



P26

080
Morse Taper Holder
THREAD



P26

120
Shell Milling Holder



P27

130
Shell Milling Holder
COOLANT SLOT



P28~29

140
Drill Chuck Arbor



P30~P31

200
Screw - In Holder



P32~33

210
Slim Collet Chuck



P34~37

220
Shrink - Fit Holder
4.5°



P38~41

240
Shrink - Fit Holder
3°



P42~43

250
Shrink - Fit Holder
3° SLIM



P44

310
Blank Arbor



P45

G000
Test Arbor
HOLLOW



P45

GS00
Test Arbor
SOLID



P46

M000
Gap Gauge

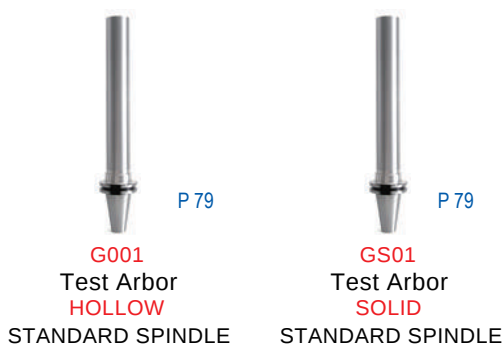
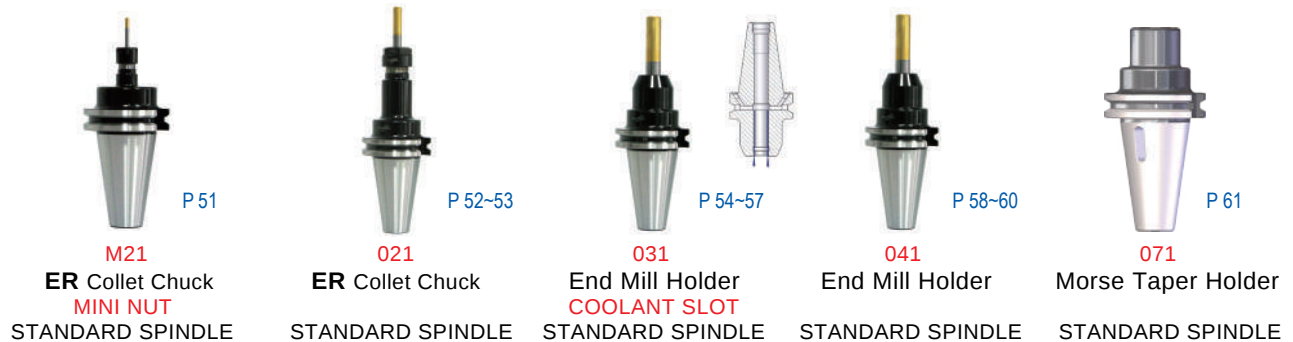
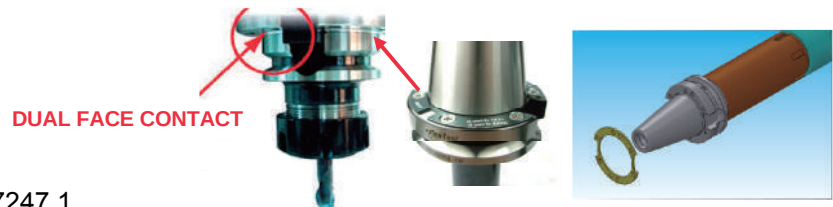
E SYSTEM TOOL HOLDERS - EXTREME DUAL FACE CONTACT

DUAL FACE CONTACT TOOL HOLDERS - STANDARD SPINDLE

- **EXTREME SYSTEM (E SYSTEM)** is an advanced, high-performance tooling system for CAT shank HSM via dual-face contact between shank and spindle.
- **E SYSTEM** is the best solution to overcome Z axis movement problems for CAT shank while machining over 8000 rpm.

- EXTREME productivity
- EXTREME precision
- EXTREME surface finish quality
- EXTREME tool life
- EXTREME chatter-free machining.

- Patent No: US:7341411, DE:102006027247.1



E SYSTEM TOOL HOLDERS - EXTREME DUAL FACE CONTACT

DUAL FACE CONTACT TOOL HOLDERS - BBT SPINDLE

- **EXTREME SYSTEM (E SYSTEM)** is an advanced, high-performance tooling system for BT taper HSM via dual-face contact between shank and spindle.
- **E SYSTEM** is the best solution to overcome Z axis movement problems for CAT shank while machining over 8000rpm.
 - EXTREME productivity
 - EXTREME precision
 - EXTREME surface finish quality
 - EXTREME tool life
 - EXTREME chatter-free machining.
- Patent No: US:7341411, DE:102006027247.1



P 51

M21

ER Collet Chuck
MINI NUT
BBT SPINDLE



P 52~53

021

ER Collet Chuck
BBT SPINDLE



P 54~57

031

End Mill Holder
COOLANT SLOT
BBT SPINDLE



P 58~60

041

End Mill Holder
BBT SPINDLE



P 61

071

Morse Taper Holder
BBT SPINDLE



P 61

081

Morse Taper Holder
THREAD
BBT SPINDLE



P 62

121

Shell Milling Holder
BBT SPINDLE



P 63

131

Shell Milling Holder
COOLANT SLOT
BBT SPINDLE



P 64~65

141

Drill Chuck Arbor
BBT SPINDLE



P 66

201

Screw-In Holder
BBT SPINDLE



P 67

211

Slim Collet Chuck
BBT SPINDLE



P 68~71

221

Shrink-Fit Holder
4.5°
BBT SPINDLE



P 72~75

241

Shrink-Fit Holder
3°
BBT SPINDLE



P 76~77

251

Shrink-Fit Holder
3°SLIM
BBT SPINDLE



P 78

311

Blank Arbor
BBT SPINDLE



P 79

G001

Test Arbor
HOLLOW
BBT SPINDLE



P 79

GS01

Test Arbor
SOLID
BBT SPINDLE

I SYSTEM TOOL HOLDERS - INFINITE

- **INFINITE SYSTEM (I SYSTEM)** is an advanced, high-performance tooling and flexible modular system.
- **I SYSTEM's** reversed ER collet is innovative design provides higher clamping force and smaller nose OD of nuts than conventional ER collet chucks.
- **I SYSTEM's** flexible innovative design provides a modular system that is quick and easy to assemble, highly accurate and rigid.
 - INFINITE Combinations
 - INFINITE Flexibility
 - INFINITE Tooling Efficiency
 - INFINITE Rigidity
 - INFINITE Applications
- Patent No:
 - TW: M319813, M319814, M322299, I 334371,
 - US: US 7628571, US 8262095, US 8888420
 - DE: DE 102007031458, DE102008037868
 - CHINA: 2007/0111455.0, ZL 2007/0111135.5, ZL 2008 1 0146711.4
 - JAPAN: 4911713.



P 84

**920
CAT
ER COLLET CHUCK
REVERSE**



P 84

**926
CAT
IR BASE
EXTENSION**



P 86

**920
BT
ER COLLET CHUCK
REVERSE**



P 87

**926
BT
IR BASE
EXTENSION**



P 85

**920
SK
ER COLLET CHUCK
REVERSE**



P 85

**926
SK
IR BASE
EXTENSION**



P 98

**920
HSK A
ER COLLET CHUCK
REVERSE**



P 99

**926
HSK A
IR BASE
EXTENSION**



P 100

**920
HSK E
ER COLLET CHUCK
REVERSE**



P 101

**926
HSK E
IR BASE
EXTENSION**



P 102

**920
HSK F
ER COLLET CHUCK
REVERSE**



P 103

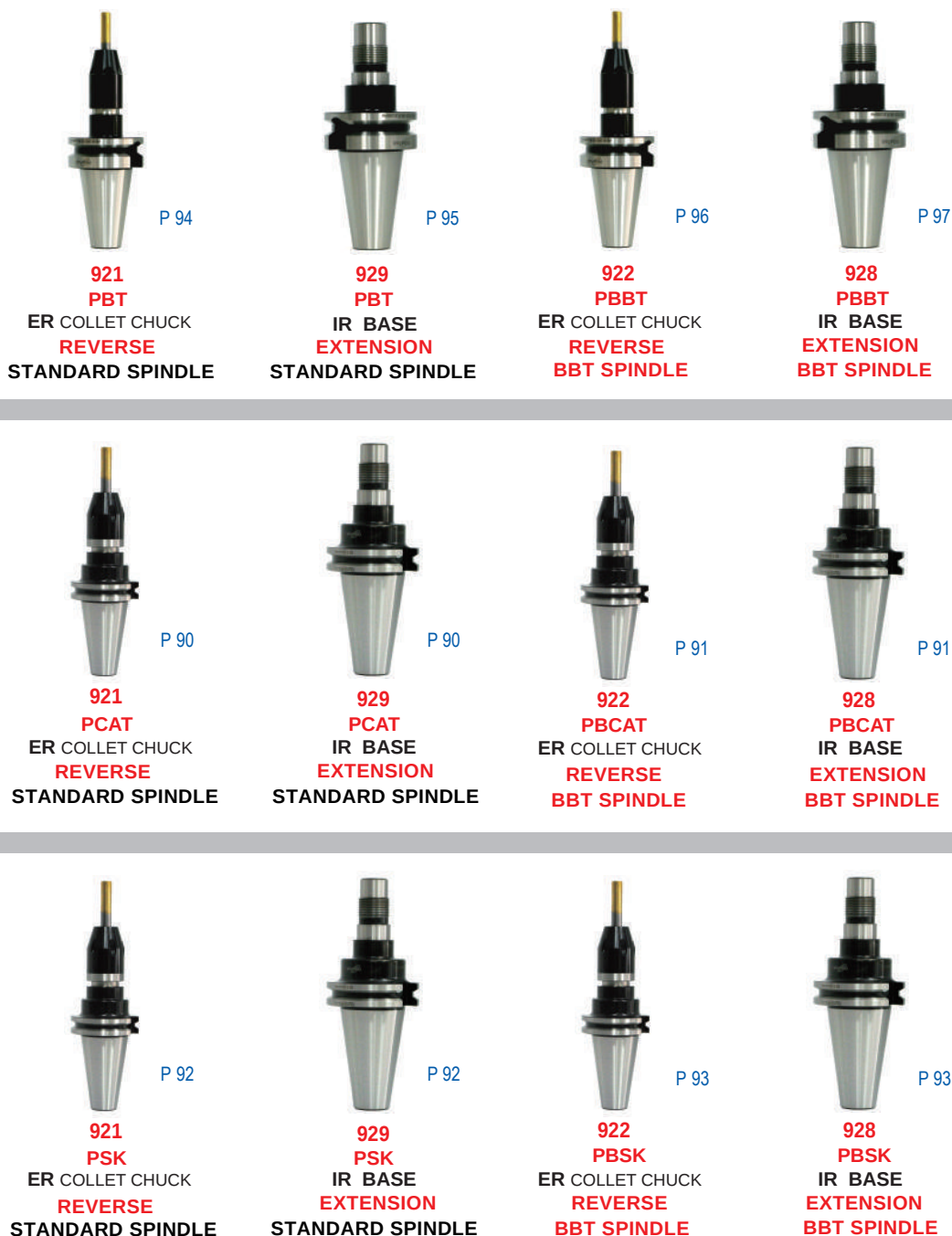
**926
HSK F
IR BASE
EXTENSION**

IPE SYSTEM TOOL HOLDERS DUAL FACE CONTACT

INFINITE PLUS EXTERME SYSTEM : DUAL FACE CONTACT MODULAR SYSTEM

- **IPE SYSTEM (I SYSTEM)** is an advanced, high-performance tooling and flexible modular system.
- **I SYSTEM's** reversed ER collet is innovative design provides higher clamping force and smaller nose OD of nuts than conventional ER collet chucks.
- **I SYSTEM's** flexible innovative design provides a modular system that is quick and easy to assemble, highly accurate and rigid.
 - INFINITE Combinations
 - INFINITE Flexibility
 - INFINITE Tooling Efficiency
 - INFINITE Rigidity
 - INFINITE Applications
- Patent No:
 - TW: M319813, M319814, M322299, I 334371.
 - US: US 7628571, US 8262095
 - DE: DE 102007031458, DE102008037868
 - CHINA: 2007/0111455.0, ZL 2007/0111135.5, ZL 2008 1 0146711.4
 - JAPAN: 4911713.

BT-CAT-SK SHANKS - IPE SYSTEM



I SYSTEM TOOL HOLDERS - IR EXTENSION



P108~109

926

Extension Shank
IR BASE
T12ERXX926-XXXXX



P110

926

Extension Shank
STRAIGHT BASE
T12SSXX926-XXXXX



P111

926

Extension Shank
LATHE BASE W/FLAT
T12SSXX926-XXXXXL



P112

M20

ER Collet Chuck
MINI NUT
T12ERXXM20-XXXXX



P113

O20

ER Collet Chuck
T12ERXXO20-XXXXX



P114

920

ER Collet Chuck
REVERSE
T12ERXX920-XXXXXX



P115

030

End Mill Holder
COOLANT SLOT
T12ERXX030-XXXXX



P116

040

End Mill Holder
T12ERXX040-XXXXX



P117

050

End Mill Holder
WHISTLE
T12ERXX050-XXXXX



P118

120

Shell Milling Holder
T12ERXX120-XXXXX



P119

130

Shell Milling Holder
COOLANT SLOT
T12ERXX130-XXXXX



P120

200

Screw-In Chuck
T12ERXX200-XXXXX



P121

210

Slim Collet Chuck
T12ERXX210-XXXXX



P122

220

Shrink-Fit Holder
4.5°
T12ERXX220-XXXXX



P123

230

Shrink-Fit Holder
4.5°SLIM
T12ERXX230-XXXXX



P124~125

240

Shrink-Fit Holder
3°
T12ERXX240-XXXXX



P126~127

250

Shrink-Fit Holder
3°SLIM
T12ERXX250-XXXXX



310

Blank
EXTENSION
T12ERXX310-XXXXX



G000

Test Arbor
EXTENSION
T12ERXXG000-XXXXX

STRAIGHT SHANK EXTENSION CHUCK -T14



P 163

T14
Straight Extension Shank
ER Collet Chuck
MINI NUT
T00T14ERXX-XXXXXEM



P 164

T14
Straight Extension Shank
ER Collet Chuck
T00T14ERXX-XXXXXE



P 165

T14
Straight Extension Shank
ER Collet Chuck
Lathe
T00T14ERXX-XXXXX-L



P 166

T14
Straight Extension Shank
ER Collet Chuck
Lathe w/Pipe Thread
T00T14ERXX-XXXXX-FM



P 167

T14
Straight Extension Shank
ER Collet Chuck
Lathe- Double End
T00T14ERXX-XXXXX-SM

ACCESSORIES



P 168~169

T05
Retention Knob
T05CAXXXXX



P 174~177

T04
ER Nut
T04ERXX-XXX



P 178~179

T07
WRENCH
T07ERXXXX



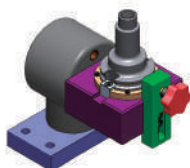
P 180

T07
DIGITAL TORQUE WRENCH
DIGITAL
T07TWDXXX-XXX



P 170~173

T03
ER Collet
T03ERXX-XXXX



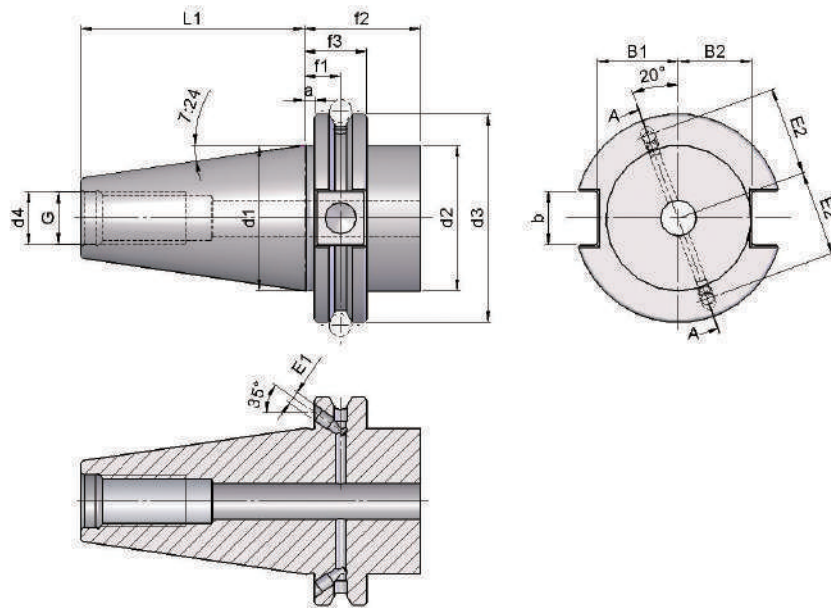
P 181

T50
Universal CNC Tightening
System
T50-A001/ T50-B001-XXXX

DIMENSION: CAT SHANK

CAT

A.N.S.I. B5.5 1994
40-50



B-Type(Flange through coolant)

CAT SHANK

Taper	d1	d2	d3	d4	a	L1	f2	f3	b	B1	B2	G	E1	E2
CAT40	44.45	44.45	63.55	18	3.18	68.25	35	19.05	16.38	24.8	22.41	5/8"-11	4	27
CAT50	69.85	69.85	98.48	28	3.18	101.6	35	19.05	25.9	37.7	35.3	1"-8	4	42

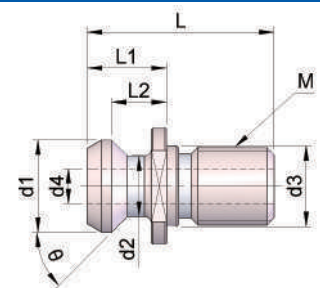
E SYSTEM : DUAL - FACE CONTACT SHANK

Taper	d1	d2	d3	d4	a	L1	f2	f3	b	B1	B2	G	E1	E2
PBCAT40	44.45	44.45	63.55	18	2.18	68.25	35	19.05	16.38	24.8	22.41	5/8"-11	4	27
PBCAT50	69.85	69.85	98.48	28	2.18	101.6	35	19.05	25.9	37.7	35.3	1"-8	4	42

Guidelines Pull Studs (Retension Knobs):

Please make sure below specification before using pull studs.

1. Make and model of your machine (e.g. Makino V99L)
2. Type of spindle taper (e.g. BT, CAT, SK or Big Plus)
3. Taper size (e.g. 30, 40, 50 etc.)
4. Through coolant or not
5. Please use the data table and the drawing when selecting the correct item
 - * For standard pull studs: please refer to the data table on page172 and 173
 - * For special pull studs, please provide the dimensions that correlate to d, L, M and θ



Warning:

- ♦ Incorrect pull stud selection can result in damage your machine and may result in bodily injury
- ♦ Please replace the pull stud when:
 - * Out of alignment
 - * Worn or damaged
 - * Signs of cracking
 - * After a machine crash
 - * wear or damaged...
 - * cracking.

Company History

Competitive Prices without Compromising Quality

PrimeTool MFG, Inc. was established in June 2005 as a subsidiary of X'Pole Precision Tools, Inc., and we officially merged with our parent company in October 2009. For over 30 years, X'Pole Precision Tools has maintained a reputation as a reliable manufacturer for Air Tooling, capturing over 70% of the market share. As a complement to X'Pole's success, **PrimeTool** has set out to accomplish that same goal, but this time in the high precision tool holder market. Henceforth, **PrimeTool** will continue as X'Pole's flagship brand name.

PrimeTool specializes in manufacturing tool holders of the finest quality as well as high-precision machine parts. In addition to quality, **PrimeTool** is able to maintain a commitment towards saving Earth's resources through the utilization of efficient machining. In part, this is accomplished from using the most advanced facilities in the world. To ensure that our tool holders not only meet, but exceed the demands for High-Speed, High-Precision and High-Performance machining, we solely manufacture with state-of-the-art equipment such as Mori-Seiki, Studer, Brown & Sharpe, Leitz, and many others.

We also provide complete and innovative solutions, as well as creative patented technology to overcome technical problems. As a result of utilizing our technological innovations, our customers have been able to achieve new levels of efficient production and thereby manage to stay ahead of their competition.

PrimeTool products are currently broken down into five main categories:

- 1.) Standard Tool Holders of the highest quality, suitable for high-speed machining, with the highest precision available, increasing machining efficiency and up-grade machining qualities.
- 2.) E System Tool Holders: a Simultaneous Dual Face Contact System (Extreme). Currently the best hybrid system in the world, the E System is the most effective solution to improve tooling rigidity and performance. The resulting extreme precision maximizes our customer's manufacturing capabilities by making their machines extremely efficient, durable and productive.
- 3.) I System Tool Holders: a Modular and Flexible System (Infinite). Our patented technology provides for unlimited applications and functions. Precision, rigidity and performance are unchanged with the addition of each extension, and the combinations with different tooling are, quite frankly, Infinite.
- 4.) IPE System Tool Holders: the I System combined with the patented Dual Face Contact design (Infinite Plus Extreme). The IPE System makes it possible to get unrivaled efficiency, quality and performance. Experience for yourself the Power you can achieve, the Extreme precision you can attain, and the Infinite tooling possibilities that are available with **PrimeTool**.
- 5.) OEM precision parts.

Our Mission

Competitive Prices without Compromising Quality Innovation and Service are always our top priorities.

Our unsurpassed manufacturing ability and strict Quality Control process ensures that our products are of the highest quality, consistently, throughout the manufacturing process. We will strive to satisfy our customers' needs and help our customers keep pace in a modern world with cutting-edge technology by providing:

1. Exceptional Quality: To meet or exceed the customer's requirements and high manufacturing standards by maintaining consistent quality at an AT3 to AT1 grade level!
2. Competitive Prices: By making precision tool holders that offer longer tool life, higher machining speeds and reduced machining time, our customers will not only appreciate the precision and accuracy that they've purchased, but the overall value as well!

PrimeTool-Next-generation equipment, Next-generation products, Outstanding quality, and Competitive pricing!



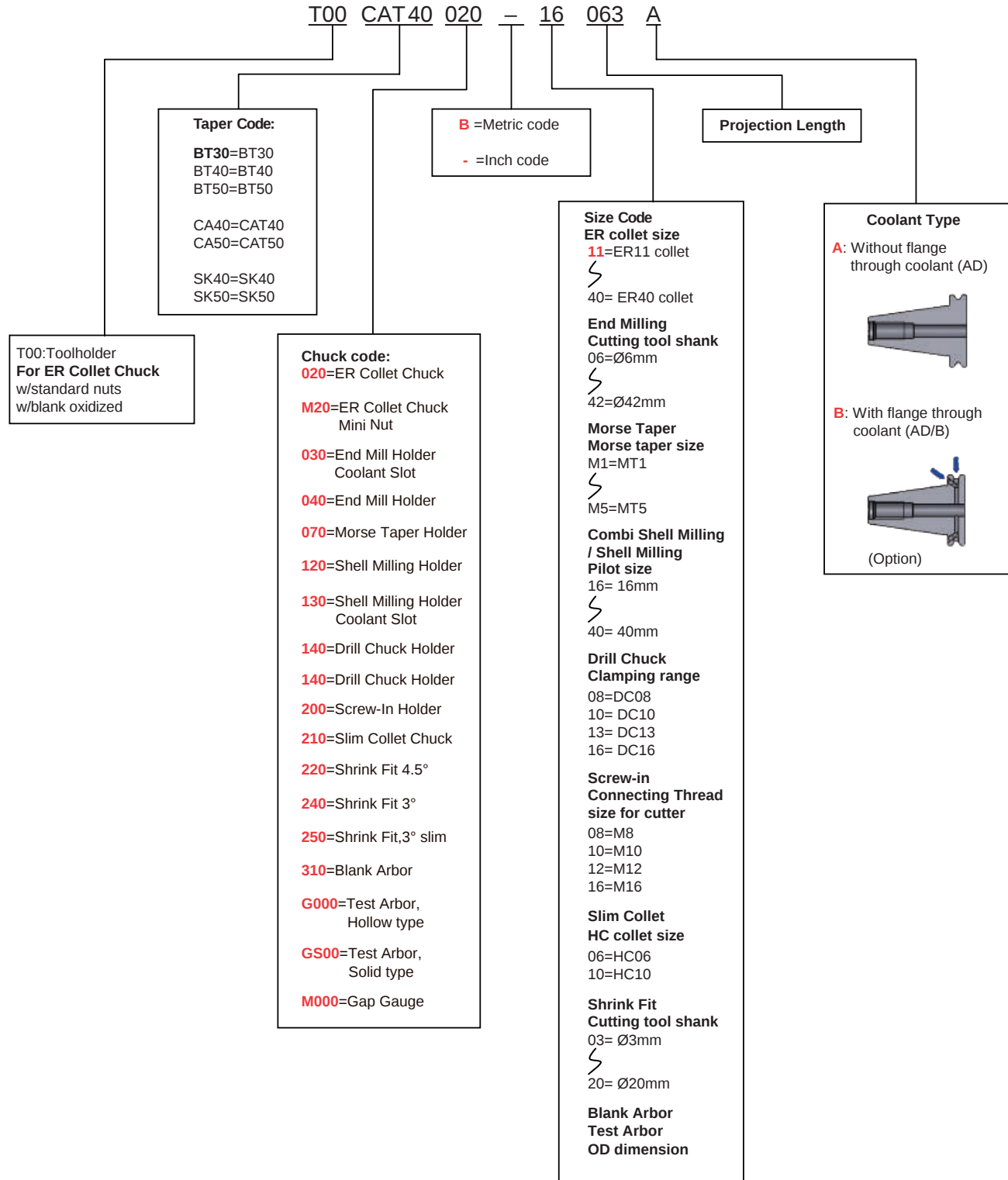
STANDARD TOOL HOLDER

- M20** - ER Collet Chuck - **Mini Nut**
- 020** - ER Collet Chuck
- 030** - End Mill Holder **Coolant Slot**
- 040** - End Mill Holder
- 070** - Morse Taper Holder
- 120** - Shell Milling Holder
- 130** - Shell Milling Holder **Coolant Slot**
- 140** - Drill Chuck Holder
- 140** - Drill Chuck Arbor
- 200** - Screw-In Holder
- 210** - Slim Collet Chuck
- 220** - Shrink-Fit Holder **4.5°**
- 240** - Shrink-Fit Holder **3°**
- 250** - Shrink-Fit Holder **3° Slim**
- 310** - Blank Arbor
- G000** - Test Arbor

STANDARD TOOL HOLDERS

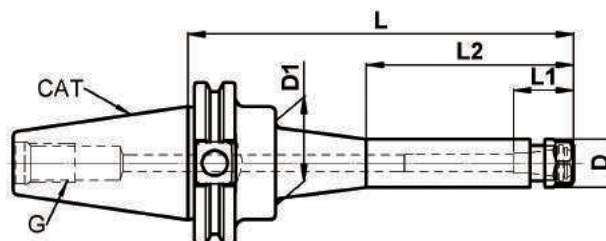
Order Number Instruction

Example: T00CA40020-16063A, CAT40 ER16-063



Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm

**CAT40 ER COLLET CHUCK MINI NUT INCH**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00CA40M20-11063A	CAT40 ER11-2.50"M	ER11	2.50"	1/16~1/4"	0.63"	0.63"	2.50"	0.66"	0.91"	5/8"-11
T00CA40M20-11102A	CAT40 ER11-4.00"M	ER11	4.00"	1/16~1/4"	0.63"	0.63"	4.00"	0.66"	2.42"	
T00CA40M20-16063A	CAT40 ER16-2.50"M	ER16	2.50"	1/16~13/32"	0.87"	0.87"	2.50"	0.87"	0.91"	
T00CA40M20-16102A	CAT40 ER16-4.00"M	ER16	4.00"	1/16~13/32"	0.87"	0.87"	4.00"	0.87"	2.42"	
T00CA40M20-16152A	CAT40 ER16-6.00"M	ER16	6.00"	1/16~13/32"	0.87"	1.10"	6.00"	0.87"	3.30"	
T00CA40M20-20063A	CAT40 ER20-2.50"M	ER20	2.50"	1/16~1/2"	1.10"	1.10"	2.50"	1.04"	0.91"	
T00CA40M20-20102A	CAT40 ER20-4.00"M	ER20	4.00"	1/16~1/2"	1.10"	1.10"	4.00"	1.04"	2.42"	1"-8
T00CA40M20-20152A	CAT40 ER20-6.00"M	ER20	6.00"	1/16~1/2"	1.10"	1.10"	6.00"	1.04"	4.42"	

CAT50 ER COLLET CHUCK MINI NUT INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00CA50M20-11102A	CAT50 ER11-4.00"M	ER11	4.00"	1/16~1/4"	0.63"	0.63"	4.00"	0.66"	2.42"	1"-8
T00CA50M20-11152A	CAT50 ER11-6.00"M	ER11	6.00"	1/16~1/4"	0.63"	1.10"	6.00"	0.66"	2.95"	
T00CA50M20-16102A	CAT50 ER16-4.00"M	ER16	4.00"	1/16~13/32"	0.63"	0.63"	4.00"	0.87"	2.44"	
T00CA50M20-16152A	CAT50 ER16-6.00"M	ER16	6.00"	1/16~13/32"	0.87"	1.10"	6.00"	0.87"	3.30"	
T00CA50M20-20102A	CAT50 ER20-4.00"M	ER20	4.00"	1/16~1/2"	1.10"	1.10"	4.00"	1.04"	2.44"	
T00CA50M20-20152A	CAT50 ER20-6.00"M	ER20	6.00"	1/16~1/2"	1.10"	1.10"	6.00"	1.04"	3.30"	

Note:

1. Order: Includes Nut, Excludes ER collet, Retention Knob and Wrench.

ACCESSORIES:**MINI NUT**

Order Number	Part Name	Thread	Type	ER Collet Size
T04ER08-M1A	ER08 Mini Nut	M10×0.75	Mini	ER08
T04ER11-M1A	ER11 Mini Nut	M13×0.75	Mini	ER11
T04ER16-M1A	ER16 Mini Nut	M19×1.00	Mini	ER16
T04ER20-M1A	ER20 Mini Nut	M24×1.00	Mini	ER20

**MINI WRENCH BEARING WITH ONE-WAY CLUTCHES**

Order Number	Part Name	Type
T07ER0805	ER08 MINI WRENCH	Mini
T07ER1105	ER11 MINI WRENCH	Mini
T07ER1605	ER16 MINI WRENCH	Mini
T07ER2005	ER20 MINI WRENCH	Mini



P170~173

P168~169

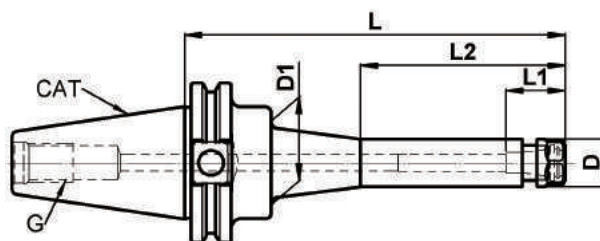
Order Number Instruction

T00	CA40	M20	-	16	070	A
A: w/o flange through coolant, standard (AD type) B: w/ flange through coolant, optional (AD/B type)						
Projection Length (L)						
ER Collet Size						
ER Collet Chuck - Mini Nut						
Taper Type						
Toolholder Code						

ER COLLET CHUCK - 020 DIN6499

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



CAT40 ER COLLET CHUCK INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00CA40020-11063A	CAT40 ER11-2.50"	ER11	2.50"	1/16~1/4"	0.75"	0.75"	2.50"	0.66"	0.91"	5/8"-11
T00CA40020-11089A	CAT40 ER11-3.50"	ER11	3.50"	1/16~1/4"	0.75"	0.75"	3.50"	0.66"	1.91"	
T00CA40020-11102A	CAT40 ER11-4.00"	ER11	4.00"	1/16~1/4"	0.75"	0.75"	4.00"	0.66"	2.42"	
T00CA40020-11152A	CAT40 ER11-6.00"	ER11	6.00"	1/16~1/4"	0.75"	1.10"	6.00"	0.66"	3.30"	
T00CA40020-11203A	CAT40 ER11-8.00"	ER11	8.00"	1/16~1/4"	0.75"	1.10"	8.00"	0.66"	3.30"	
T00CA40020-16063A	CAT40 ER16-2.50"	ER16	2.50"	1/16~13/32"	1.10"	1.10"	2.50"	0.87"	0.91"	
T00CA40020-16089A	CAT40 ER16-3.50"	ER16	3.50"	1/16~13/32"	1.10"	1.10"	3.50"	0.87"	1.91"	
T00CA40020-16102A	CAT40 ER16-4.00"	ER16	4.00"	1/16~13/32"	1.10"	1.10"	4.00"	0.87"	2.42"	
T00CA40020-16152A	CAT40 ER16-6.00"	ER16	6.00"	1/16~13/32"	1.10"	1.10"	6.00"	0.87"	4.62"	
T00CA40020-16203A	CAT40 ER16-8.00"	ER16	8.00"	1/16~13/32"	1.10"	1.77"	8.00"	0.87"	3.34"	
T00CA40020-16254A	CAT40 ER16-10.00"	ER16	10.00"	1/16~13/32"	1.10"	1.77"	10.00"	0.87"	3.34"	
T00CA40020-20063A	CAT40 ER20-2.50"	ER20	2.50"	1/16~1/2"	1.34"	1.34"	2.50"	1.04"	0.91"	
T00CA40020-20089A	CAT40 ER20-3.50"	ER20	3.50"	1/16~1/2"	1.34"	1.34"	3.50"	1.04"	1.91"	
T00CA40020-20102A	CAT40 ER20-4.00"	ER20	4.00"	1/16~1/2"	1.34"	1.34"	4.00"	1.04"	2.42"	
T00CA40020-20152A	CAT40 ER20-6.00"	ER20	6.00"	1/16~1/2"	1.34"	1.34"	6.00"	1.04"	4.42"	
T00CA40020-20203A	CAT40 ER20-8.00"	ER20	8.00"	1/16~1/2"	1.34"	1.34"	8.00"	1.04"	6.42"	
T00CA40020-20254A	CAT40 ER20-10.00"	ER20	10.00"	1/16~1/2"	1.34"	1.34"	10.00"	1.04"	8.42"	
T00CA40020-25063A	CAT40 ER25-2.50"	ER25	2.50"	1/16~5/8"	1.65"	1.65"	2.50"	1.14"	0.91"	
T00CA40020-25089A	CAT40 ER25-3.50"	ER25	3.50"	1/16~5/8"	1.65"	1.65"	3.50"	1.14"	1.91"	
T00CA40020-25102A	CAT40 ER25-4.00"	ER25	4.00"	1/16~5/8"	1.65"	1.65"	4.00"	1.14"	2.42"	
T00CA40020-25152A	CAT40 ER25-6.00"	ER25	6.00"	1/16~5/8"	1.65"	1.65"	6.00"	1.14"	4.42"	
T00CA40020-25203A	CAT40 ER25-8.00"	ER25	8.00"	1/16~5/8"	1.65"	1.65"	8.00"	1.14"	6.42"	
T00CA40020-25254A	CAT40 ER25-10.00"	ER25	10.00"	1/16~5/8"	1.65"	1.65"	10.00"	1.14"	8.42"	
T00CA40020-32070A	CAT40 ER32-2.76"	ER32	2.76"	3/32~3/4"	1.97"	1.97"	2.76"	1.34"	1.17"	
T00CA40020-32089A	CAT40 ER32-3.50"	ER32	3.50"	3/32~3/4"	1.97"	1.97"	3.50"	1.34"	1.92"	
T00CA40020-32102A	CAT40 ER32-4.00"	ER32	4.00"	3/32~3/4"	1.97"	1.97"	4.00"	1.34"	2.42"	
T00CA40020-32152A	CAT40 ER32-6.00"	ER32	6.00"	3/32~3/4"	1.97"	1.97"	6.00"	1.34"	4.42"	
T00CA40020-32203A	CAT40 ER32-8.00"	ER32	8.00"	3/32~3/4"	1.97"	1.97"	8.00"	1.34"	6.42"	
T00CA40020-32254A	CAT40 ER32-10.00"	ER32	10.00"	3/32~3/4"	1.97"	1.97"	10.00"	1.34"	8.42"	
T00CA40020-40102A	CAT40 ER40-4.00"	ER40	4.00"	1/8~1"	2.48"	2.48"	4.00"	1.50"	2.42"	
T00CA40020-40152A	CAT40 ER40-6.00"	ER40	6.00"	1/8~1"	2.48"	2.48"	6.00"	1.50"	4.42"	
T00CA40020-40203A	CAT40 ER40-8.00"	ER40	8.00"	1/8~1"	2.48"	2.48"	8.00"	1.50"	6.42"	

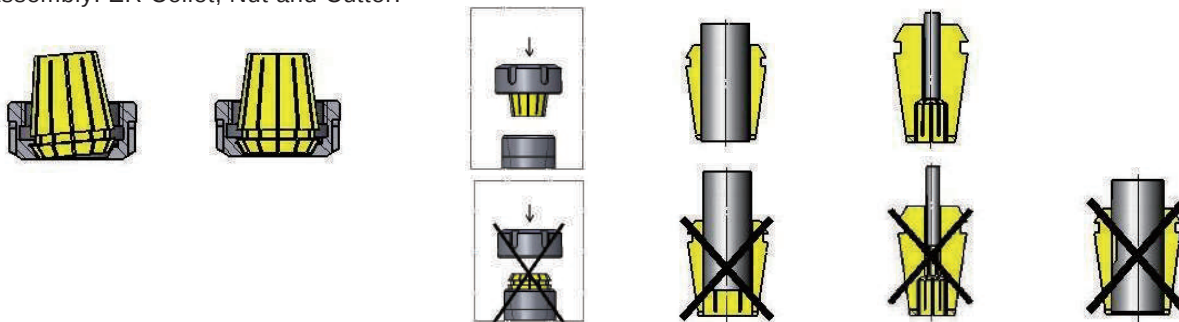
CAT50 ER COLLET CHUCK INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00CA50020-16102A	CAT50 ER16-4.00"	ER16	4.00"	1/16~13/32"	1.10"	1.10"	4.00"	0.87"	2.42"	1"-8
T00CA50020-16152A	CAT50 ER16-6.00"	ER16	6.00"	1/16~13/32"	1.10"	1.10"	6.00"	0.87"	3.30"	
T00CA50020-16203A	CAT50 ER16-8.00"	ER16	8.00"	1/16~13/32"	1.10"	1.10"	8.00"	0.87"	3.30"	
T00CA50020-16254A	CAT50 ER16-10.00"	ER16	10.00"	1/16~13/32"	1.10"	1.77"	10.00"	0.87"	3.34"	
T00CA50020-16305A	CAT50 ER16-12.00"	ER16	12.00"	1/16~13/32"	1.10"	1.77"	12.00"	0.87"	3.34"	
T00CA50020-16381A	CAT50 ER16-15.00"	ER16	15.00"	1/16~13/32"	1.10"	1.77"	15.00"	0.87"	3.34"	
T00CA50020-20102A	CAT50 ER20-4.00"	ER20	4.00"	1/16~1/2"	1.34"	1.34"	4.00"	1.04"	2.42"	
T00CA50020-20152A	CAT50 ER20-6.00"	ER20	6.00"	1/16~1/2"	1.34"	1.34"	6.00"	1.04"	4.42"	
T00CA50020-20203A	CAT50 ER20-8.00"	ER20	8.00"	1/16~1/2"	1.34"	1.34"	8.00"	1.04"	6.42"	
T00CA50020-20254A	CAT50 ER20-10.00"	ER20	10.00"	1/16~1/2"	1.34"	1.77"	10.00"	1.04"	3.34"	
T00CA50020-20305A	CAT50 ER20-12.00"	ER20	12.00"	1/16~1/2"	1.34"	1.77"	12.00"	1.04"	3.34"	
T00CA50020-20381A	CAT50 ER20-15.00"	ER20	15.00"	1/16~1/2"	1.34"	1.77"	15.00"	1.04"	3.34"	
T00CA50020-25102A	CAT50 ER25-4.00"	ER25	4.00"	1/16~5/8"	1.65"	1.65"	4.00"	1.14"	2.42"	
T00CA50020-25152A	CAT50 ER25-6.00"	ER25	6.00"	1/16~5/8"	1.65"	1.65"	6.00"	1.14"	4.42"	
T00CA50020-25203A	CAT50 ER25-8.00"	ER25	8.00"	1/16~5/8"	1.65"	1.65"	8.00"	1.14"	6.42"	
T00CA50020-25254A	CAT50 ER25-10.00"	ER25	10.00"	1/16~5/8"	1.65"	1.65"	10.00"	1.14"	8.42"	
T00CA50020-25381A	CAT50 ER25-15.00"	ER25	15.00"	1/16~5/8"	1.65"	2.75"	15.00"	1.14"	3.42"	
T00CA50020-32070A	CAT50 ER32-2.76"	ER32	2.76"	3/32~3/4"	1.97"	1.97"	2.76"	1.34"	1.18"	
T00CA50020-32102A	CAT50 ER32-4.00"	ER32	4.00"	3/32~3/4"	1.97"	1.97"	4.00"	1.34"	2.42"	
T00CA50020-32152A	CAT50 ER32-6.00"	ER32	6.00"	3/32~3/4"	1.97"	1.97"	6.00"	1.34"	4.42"	
T00CA50020-32203A	CAT50 ER32-8.00"	ER32	8.00"	3/32~3/4"	1.97"	1.97"	8.00"	1.34"	6.42"	
T00CA50020-32254A	CAT50 ER32-10.00"	ER32	10.00"	3/32~3/4"	1.97"	1.97"	10.00"	1.34"	8.42"	
T00CA50020-32305A	CAT50 ER32-12.00"	ER32	12.00"	3/32~3/4"	1.97"	1.97"	12.00"	1.34"	10.42"	
T00CA50020-32381A	CAT50 ER32-15.00"	ER32	15.00"	3/32~3/4"	1.97"	2.75"	15.00"	1.34"	3.46"	
T00CA50020-40102A	CAT50 ER40-4.00"	ER40	4.00"	1/8~1"	2.48"	2.48"	4.00"	1.50"	2.42"	
T00CA50020-40120A	CAT50 ER40-4.72"	ER40	4.72"	1/8~1"	2.48"	2.48"	4.72"	1.50"	3.14"	
T00CA50020-40152A	CAT50 ER40-6.00"	ER40	6.00"	1/8~1"	2.48"	2.48"	6.00"	1.50"	4.42"	
T00CA50020-40203A	CAT50 ER40-8.00"	ER40	8.00"	1/8~1"	2.48"	2.48"	8.00"	1.50"	6.42"	

ER COLLET CHUCK - 020 DIN6499

Note:

1. Order: Includes Nut, Excludes ER collet, Retention Knob and Wrench.
2. Assembly: ER Collet, Nut and Cutter.



ACCESSORIES:

ER NUTS			
Order Number	Part Name	Thread	Type
T04ER11-H1A	ER11 Nut, Hex	M14×0.75	Hex
T04ER16-H1A	ER16 Nut, Hex	M22×1.50	Hex
T04ER20-H1A	ER20 Nut, Hex	M25×1.50	Hex
T04ER25-D1A	ER25 Nut	M32×1.50	Spanner
T04ER32-D1A	ER32 Nut	M40×1.50	Spanner
T04ER40-D1A	ER40 Nut	M50×1.50	Spanner

ER NUTS		
Order Number		
T04ER11-H1A		Hex Nut T04ERXX-H1A
T04ER16-H1A		
T04ER20-H1A		
T04ER25-D1A		Spanner Nut T04ERXX-D1A
T04ER32-D1A		
T04ER40-D1A		

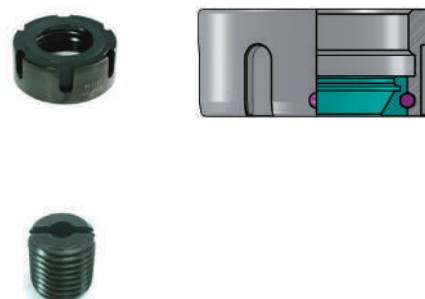
ER BALL BEARING NUTS			
T04ER25-D1A-BB	ER25 Ball bearing Nut	M32×1.50	Spanner
T04ER32-D1A-BB	ER32 Ball bearing Nut	M40×1.50	Spanner
T04ER40-D1A-BB	ER40 Ball bearing Nut	M50×1.50	Spanner

BACKUP SCREWS INCH		
Order Number	Part Name	ER size
T06PS-CAER11LH	ER11 Backup Screws	ER11
T06PS-CAER16LH	ER16 Backup Screws	ER16
T06PS-CAER20LH	ER20 Backup Screws	ER20
T06PS-CAER25LH	ER25 Backup Screws	ER25
T06PS-CAER32LH	ER32 Backup Screws	ER32
T06PS-CAER40LH	ER40 Backup Screws	ER40



ER BALANCED NUTS - Balanced 1g-mm	
Order Number	Part Name
T04ER11-H2A	ER11 High-balanced Nut, Hex
T04ER16-H2A	ER16 High-balanced Nut, Hex
T04ER20-H2A	ER20 High-balanced Nut, Hex
T04ER25-D2A	ER25 High-balanced Nut
T04ER32-D2A	ER32 High-balanced Nut
T04ER40-D2A	ER40 High-balanced Nut

WRENCH		
Order Number	Part Name	
T07ER1101	ER11 WRENCH	Hex wrench T07ERXX01
T07ER1601	ER16 WRENCH	
T07ER2001	ER20 WRENCH	
T07ER2502	ER25 WRENCH	ER wrench T07ERXX02
T07ER3202	ER32 WRENCH	
T07ER4002	ER40 WRENCH	



Order Number Instruction

T00	CA40	020	-	16	070	A
Toolholder Code		ER Collet Chuck		ER Collet Size	Projection Length (L)	A: w/o flange through coolant, standard (AD type) B: w/ flange through coolant, optional (AD/B type)
	Taper Type					

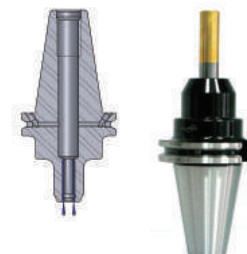
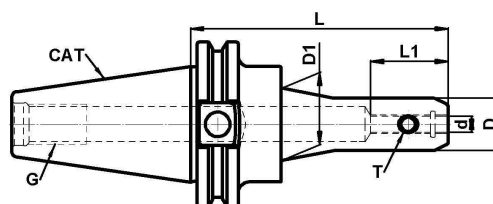
STANDARD TOOL HOLDER

END MILL HOLDER COOLANT SLOT - 030 DIN 1835B

COOLANT SLOT

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.00018")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



CAT40 END MILL HOLDER COOLANT SLOT INCH

Order Number	Part Name	Cutter	Length	d	D	D1	L	L1	T	G
T00CA40030-03065A	CAT40 EM1/8"-2.56"J	1/8"	2.56"	1/8"	0.69"	0.69"	2.56"	0.63"	No.6-32	5/8"-11
T00CA40030-03102A	CAT40 EM1/8"-4.00"J	1/8"	4.00"	1/8"	0.69"	0.69"	4.00"	0.63"	No.6-32	
T00CA40030-05065A	CAT40 EM3/16"-2.56"J	3/16"	2.56"	3/16"	0.79"	0.79"	2.56"	0.86"	No.8-32	
T00CA40030-05102A	CAT40 EM3/16"-4.00"J	3/16"	4.00"	3/16"	0.79"	0.79"	4.00"	0.86"	No.8-32	
T00CA40030-06065A	CAT40 EM1/4"-2.56"J	1/4"	2.56"	1/4"	0.79"	0.79"	2.56"	1.18"	1/4"-28	
T00CA40030-06102A	CAT40 EM1/4"-4.00"J	1/4"	4.00"	1/4"	0.79"	0.79"	4.00"	1.18"	1/4"-28	
T00CA40030-06152A	CAT40 EM1/4"-6.00"J	1/4"	6.00"	1/4"	0.79"	1.10"	6.00"	1.18"	1/4"-28	
T00CA40030-08063A	CAT40 EM5/16"-2.50"J	5/16"	2.50"	5/16"	1.00"	1.00"	2.50"	1.38"	1/4"-28	
T00CA40030-08102A	CAT40 EM5/16"-4.00"J	5/16"	4.00"	5/16"	1.00"	1.00"	4.00"	1.38"	1/4"-28	
T00CA40030-08152A	CAT40 EM5/16"-6.00"J	5/16"	6.00"	5/16"	1.00"	1.34"	6.00"	1.38"	1/4"-28	
T00CA40030-09065A	CAT40 EM3/8"-2.56"J	3/8"	2.56"	3/8"	1.00"	1.00"	2.56"	1.54"	3/8"-24	
T00CA40030-09102A	CAT40 EM3/8"-4.00"J	3/8"	4.00"	3/8"	1.00"	1.00"	4.00"	1.54"	3/8"-24	
T00CA40030-09152A	CAT40 EM3/8"-6.00"J	3/8"	6.00"	3/8"	1.00"	1.34"	6.00"	1.54"	3/8"-24	
T00CA40030-12045A	CAT40 EM1/2"-1.75"J	1/2"	1.75"	1/2"	1.38"	1.38"	1.75"	1.73"	7/16"-20	
T00CA40030-12065A	CAT40 EM1/2"-2.56"J	1/2"	2.56"	1/2"	1.38"	1.38"	2.56"	1.73"	7/16"-20	
T00CA40030-12102A	CAT40 EM1/2"-4.00"J	1/2"	4.00"	1/2"	1.38"	1.38"	4.00"	1.73"	7/16"-20	
T00CA40030-12152A	CAT40 EM1/2"-6.00"J	1/2"	6.00"	1/2"	1.38"	1.38"	6.00"	1.73"	7/16"-20	
T00CA40030-16045A	CAT40 EM5/8"-1.75"J	5/8"	1.75"	5/8"	1.65"	1.65"	1.75"	2.09"	9/16"-18	
T00CA40030-16065A	CAT40 EM5/8"-2.56"J	5/8"	2.56"	5/8"	1.65"	1.65"	2.56"	2.09"	9/16"-18	
T00CA40030-16102A	CAT40 EM5/8"-4.00"J	5/8"	4.00"	5/8"	1.65"	1.65"	4.00"	2.09"	9/16"-18	
T00CA40030-16152A	CAT40 EM5/8"-6.00"J	5/8"	6.00"	5/8"	1.65"	1.65"	6.00"	2.09"	9/16"-18	
T00CA40030-19045A	CAT40 EM3/4"-1.75"J	3/4"	1.75"	3/4"	1.75"	1.75"	1.75"	2.24"	5/8"-18	
T00CA40030-19065A	CAT40 EM3/4"-2.56"J	3/4"	2.56"	3/4"	1.89"	1.89"	2.56"	2.24"	5/8"-18	
T00CA40030-19102A	CAT40 EM3/4"-4.00"J	3/4"	4.00"	3/4"	1.89"	1.89"	4.00"	2.24"	5/8"-18	
T00CA40030-19152A	CAT40 EM3/4"-6.00"J	3/4"	6.00"	3/4"	1.89"	1.89"	6.00"	2.24"	5/8"-18	
T00CA40030-22045A	CAT40 EM7/8"-1.75"J	7/8"	1.75"	7/8"	1.94"	1.94"	1.75"	2.17"	5/8"-18	
T00CA40030-22089A	CAT40 EM7/8"-3.50"J	7/8"	3.50"	7/8"	2.00"	2.00"	3.50"	2.17"	5/8"-18	
T00CA40030-22152A	CAT40 EM7/8"-6.00"J	7/8"	6.00"	7/8"	2.00"	2.00"	6.00"	2.17"	5/8"-18	
T00CA40030-25050A	CAT40 EM1"-1.97"J	1"	1.97"	1"	2.25"	2.25"	1.97"	2.52"	3/4"-16	
T00CA40030-25102A	CAT40 EM1"-4.00"J	1"	4.00"	1"	2.36"	2.36"	4.00"	2.52"	3/4"-16	
T00CA40030-25152A	CAT40 EM1"-6.00"J	1"	6.00"	1"	2.36"	2.36"	6.00"	2.52"	3/4"-16	
T00CA40030-32109A	CAT40 EM1 1/4"-4.29"J	1 1/4"	4.29"	1 1/4"	2.52"	2.52"	4.29"	2.68"	3/4"-16	
T00CA40030-32152A	CAT40 EM1 1/4"-6.00"J	1 1/4"	6.00"	1 1/4"	2.52"	2.52"	6.00"	2.68"	3/4"-16	
T00CA40030-32203A	CAT40 EM1 1/4"-8.00"J	1 1/4"	8.00"	1 1/4"	2.52"	2.52"	8.00"	2.68"	3/4"-16	

CAT50 END MILL HOLDER COOLANT SLOT INCH

Order Number	Part Name	Cutter	Length	d	D	D1	L	L1	T	G
T00CA50030-06065A	CAT50 EM1/4"-2.56"J	1/4"	2.56"	1/4"	0.79"	0.79"	2.56"	1.18"	1/4"-28	1"-8
T00CA50030-06102A	CAT50 EM1/4"-4.00"J	1/4"	4.00"	1/4"	0.79"	0.79"	4.00"	1.18"	1/4"-28	
T00CA50030-06152A	CAT50 EM1/4"-6.00"J	1/4"	6.00"	1/4"	0.79"	1.10"	6.00"	1.18"	1/4"-28	
T00CA50030-06203A	CAT50 EM1/4"-8.00"J	1/4"	8.00"	1/4"	0.79"	1.10"	8.00"	1.18"	1/4"-28	
T00CA50030-08065A	CAT50 EM5/16"-2.56"J	5/16"	2.56"	5/16"	1.00"	1.00"	2.56"	1.38"	1/4"-28	
T00CA50030-08102A	CAT50 EM5/16"-4.00"J	5/16"	4.00"	5/16"	1.00"	1.00"	4.00"	1.38"	1/4"-28	
T00CA50030-08152A	CAT50 EM5/16"-6.00"J	5/16"	6.00"	5/16"	1.00"	1.34"	6.00"	1.38"	1/4"-28	
T00CA50030-08203A	CAT50 EM5/16"-8.00"J	5/16"	8.00"	5/16"	1.00"	1.34"	8.00"	1.38"	1/4"-28	
T00CA50030-09065A	CAT50 EM3/8"-2.56"J	3/8"	2.56"	3/8"	1.00"	1.00"	2.56"	1.54"	3/8"-24	
T00CA50030-09102A	CAT50 EM3/8"-4.00"J	3/8"	4.00"	3/8"	1.00"	1.00"	4.00"	1.54"	3/8"-24	
T00CA50030-09152A	CAT50 EM3/8"-6.00"J	3/8"	6.00"	3/8"	1.00"	1.34"	6.00"	1.54"	3/8"-24	
T00CA50030-09203A	CAT50 EM3/8"-8.00"J	3/8"	8.00"	3/8"	1.00"	1.34"	8.00"	1.54"	3/8"-24	
T00CA50030-12075A	CAT50 EM1/2"-2.95"J	1/2"	2.95"	1/2"	1.38"	1.38"	2.95"	1.73"	7/16"-20	
T00CA50030-12102A	CAT50 EM1/2"-4.00"J	1/2"	4.00"	1/2"	1.38"	1.38"	4.00"	1.73"	7/16"-20	
T00CA50030-12152A	CAT50 EM1/2"-6.00"J	1/2"	6.00"	1/2"	1.38"	1.38"	6.00"	1.73"	7/16"-20	
T00CA50030-12203A	CAT50 EM1/2"-8.00"J	1/2"	8.00"	1/2"	1.38"	1.38"	8.00"	1.73"	7/16"-20	
T00CA50030-16076A	CAT50 EM5/8"-3.00"J	5/8"	3.00"	5/8"	1.65"	1.65"	3.00"	2.09"	9/16"-18	
T00CA50030-16102A	CAT50 EM5/8"-4.00"J	5/8"	4.00"	5/8"	1.65"	1.65"	4.00"	2.09"	9/16"-18	
T00CA50030-16152A	CAT50 EM5/8"-6.00"J	5/8"	6.00"	5/8"	1.65"	1.65"	6.00"	2.09"	9/16"-18	
T00CA50030-16203A	CAT50 EM5/8"-8.00"J	5/8"	8.00"	5/8"	1.65"	1.65"	8.00"	2.09"	9/16"-18	
T00CA50030-19076A	CAT50 EM3/4"-3.00"J	3/4"	3.00"	3/4"	1.89"	1.89"	3.00"	2.24"	5/8"-18	
T00CA50030-19102A	CAT50 EM3/4"-4.00"J	3/4"	4.00"	3/4"	1.89"	1.89"	4.00"	2.24"	5/8"-18	
T00CA50030-19152A	CAT50 EM3/4"-6.00"J	3/4"	6.00"	3/4"	1.89"	1.89"	6.00"	2.24"	5/8"-18	
T00CA50030-19203A	CAT50 EM3/4"-8.00"J	3/4"	8.00"	3/4"	1.89"	1.89"	8.00"	2.24"	5/8"-18	
T00CA50030-22089A	CAT50 EM7/8"-3.50"J	7/8"	3.50"	7/8"	2.00"	2.00"	3.50"	2.17"	5/8"-18	
T00CA50030-22152A	CAT50 EM7/8"-6.00"J	7/8"	6.00"	7/8"	2.00"	2.00"	6.00"	2.17"	5/8"-18	

STANDARD TOOL HOLDER

END MILL HOLDER COOLANT SLOT - 030 DIN 1835B

COOLANT SLOT

Order Number	Part Name	Cutter	Length	d	D	D1	L	L1	T	G
T00CA50030-22203A	CAT50 EM7/8"-8.00"J	7/8"	8.00"	7/8"	2.00"	2.00"	8.00"	2.17"	5/8"-18	1"-8
T00CA50030-25102A	CAT50 EM1"-4.00"J	1"	4.00"	1"	2.25"	2.25"	4.00"	2.52"	3/4"-16	
T00CA50030-25152A	CAT50 EM1"-6.00"J	1"	6.00"	1"	2.36"	2.36"	6.00"	2.52"	3/4"-16	
T00CA50030-25203A	CAT50 EM1"-8.00"J	1"	8.00"	1"	2.36"	2.36"	8.00"	2.52"	3/4"-16	
T00CA50030-32102A	CAT50 EM1 1/4"-4.00"J	1 1/4"	4.00"	1 1/4"	2.52"	2.52"	4.00"	2.68"	3/4"-16	
T00CA50030-32152A	CAT50 EM1 1/4"-6.00"J	1 1/4"	6.00"	1 1/4"	2.52"	2.52"	6.00"	2.68"	3/4"-16	
T00CA50030-32203A	CAT50 EM1 1/4"-8.00"J	1 1/4"	8.00"	1 1/4"	2.52"	2.52"	8.00"	2.68"	3/4"-16	

ACCESSORIES:

Set Screw for End Mill Holder INCH		
Order Number	Part Name	END MILL
T06EM03-CA	EM1/8",Set Screw	1/8"
T06EM05-CA	EM3/16",Set Screw	3/16"
T06EM06-CA	EM1/4",Set Screw	1/4"
T06EM09-CA	EM3/8",Set Screw	3/8"
T06EM12-CA	EM1/2",Set Screw	1/2"
T06EM16-CA01	EM5/8",Set Screw01	5/8"
T06EM16-CA02	EM5/8",Set Screw02	5/8"
T06EM19-CA01	EM3/4",Set Screw01	3/4"
T06EM19-CA02	EM3/4",Set Screw02	3/4"
T06EM25-CA01	EM1",Set Screw01	1", 1 1/4"
T06EM25-CA02	EM1",Set Screw02	1", 1 1/4"
T06EM25-CA03	EM1",Set Screw03	1", 1 1/4"
T06EM38-CA	EM1 1/2" Set Screw	1 1/2"
T06EM50-CA	EM 2" Set Screw	2"



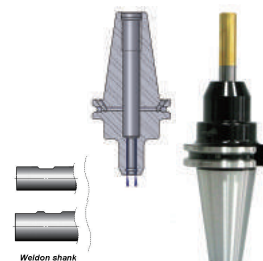
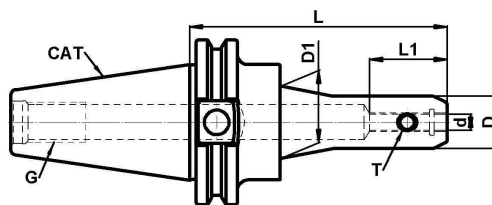
P168~169

Order Number Instruction

T00	CA40	030	-	06	065	A
Toolholder Code	Taper Type	End Mill Holder w/Coolant Slot		Cutter Tool Shank Size	Projection Length (L)	A: w/o flange through coolant, standard (AD type) B: w/ flange through coolant, optional (AD/B type)

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm (0.00018")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



CAT40 END MILL HOLDER COOLANT SLOT METRIC

Order Number	Part Name	Cutter mm	Length	d mm	D	D1	L	L1	T	G
T00CA40030B06065A	CAT40 EM06-2.56"J	6	2.56"	6	0.79"	0.79"	2.56"	1.18"	1/4"-28	5/8"-11
T00CA40030B06102A	CAT40 EM06-4.00"J	6	4.00"	6	0.79"	0.79"	4.00"	1.18"	1/4"-28	
T00CA40030B08063A	CAT40 EM08-2.50"J	8	2.50"	8	1.00"	1.00"	2.50"	1.38"	1/4"-28	
T00CA40030B08102A	CAT40 EM08-4.00"J	8	4.00"	8	1.00"	1.00"	4.00"	1.38"	1/4"-28	
T00CA40030B10065A	CAT40 EM10-2.56"J	10	2.50"	10	1.00"	1.00"	2.50"	1.54"	3/8"-24	
T00CA40030B10102A	CAT40 EM10-4.00"J	10	4.00"	10	1.00"	1.00"	4.00"	1.54"	3/8"-24	
T00CA40030B12065A	CAT40 EM12-2.56"J	12	2.50"	12	1.38"	1.38"	2.50"	1.73"	7/16"-20	
T00CA40030B12102A	CAT40 EM12-4.00"J	12	4.00"	12	1.38"	1.38"	4.00"	1.73"	7/16"-20	
T00CA40030B16065A	CAT40 EM16-2.56"J	16	2.56"	16	1.65"	1.65"	2.56"	2.09"	9/16"-18	
T00CA40030B16102A	CAT40 EM16-4.00"J	16	4.00"	16	1.65"	1.65"	4.00"	2.09"	9/16"-18	
T00CA40030B20065A	CAT40 EM20-2.56"J	20	2.56"	20	1.75"	1.75"	2.56"	2.24"	5/8"-18	
T00CA40030B20102A	CAT40 EM20-4.00"J	20	4.00"	20	1.75"	1.75"	4.00"	2.24"	5/8"-18	
T00CA40030B25102A	CAT40 EM25-4.00"J	25	4.00"	25	2.36"	2.36"	4.00"	2.52"	3/4"-16	3/4"-16
T00CA40030B32120A	CAT40 EM32-4.72"J	32	4.72"	32	2.52"	2.52"	4.72"	2.68"	3/4"-16	

CAT50 END MILL HOLDER COOLANT SLOT METRIC

Order Number	Part Name	Cutter mm	Length	d mm	D	D1	L	L1	T	G
T00CA50030B06065A	CAT50 EM06-2.56"J	6	2.56"	6	0.79"	0.79"	2.56"	1.18"	1/4"-28	1"-8
T00CA50030B06102A	CAT50 EM06-4.00"J	6	4.00"	6	0.79"	0.79"	4.00"	1.18"	1/4"-28	
T00CA50030B08065A	CAT50 EM08-2.56"J	8	2.56"	8	1.00"	1.00"	2.56"	1.38"	1/4"-28	
T00CA50030B08102A	CAT50 EM08-4.00"J	8	4.00"	8	1.00"	1.00"	4.00"	1.38"	1/4"-28	
T00CA50030B10065A	CAT50 EM10-2.56"J	10	2.50"	10	1.00"	1.00"	2.50"	1.54"	3/8"-24	
T00CA50030B10102A	CAT50 EM10-4.00"J	10	4.00"	10	1.00"	1.00"	4.00"	1.54"	3/8"-24	
T00CA50030B12075A	CAT50 EM12-2.95"J	12	2.95"	12	1.38"	1.38"	2.95"	1.73"	7/16"-20	
T00CA50030B12102A	CAT50 EM12-4.00"J	12	4.00"	12	1.38"	1.38"	4.00"	1.73"	7/16"-20	
T00CA50030B16076A	CAT50 EM16-3.00"J	16	3.00"	16	1.65"	1.65"	3.00"	2.09"	9/16"-18	
T00CA50030B16102A	CAT50 EM16-4.00"J	16	4.00"	16	1.65"	1.65"	4.00"	2.09"	9/16"-18	
T00CA50030B20076A	CAT50 EM20-3.00"J	20	3.00"	20	1.75"	1.75"	3.00"	2.24"	5/8"-18	
T00CA50030B20102A	CAT50 EM20-4.00"J	20	4.00"	20	1.75"	1.75"	4.00"	2.24"	5/8"-18	
T00CA50030B25102A	CAT50 EM25-4.00"J	25	4.00"	25	2.36"	2.36"	4.00"	2.52"	3/4"-16	3/4"-16
T00CA50030B32102A	CAT50 EM32-4.00"J	32	4.00"	32	2.52"	2.52"	4.00"	2.68"	3/4"-16	

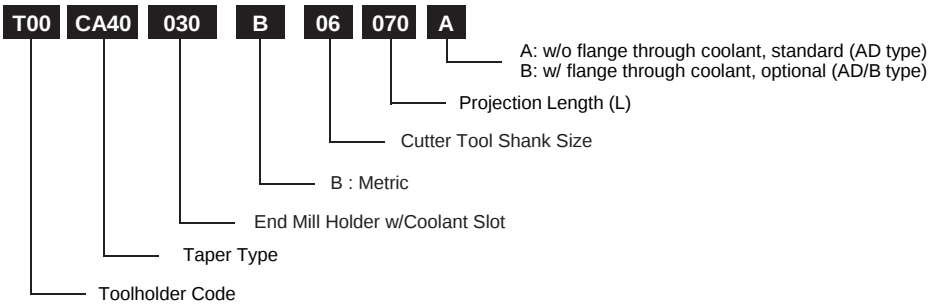
ACCESSORIES:

Set Screw for End Mill Holder Metric		
Order Number	Part Name	END MILL
T06EM03-CA	EM1/8", Set Screw	1/8"
T06EM05-CA	EM3/16", Set Screw	3/16"
T06EM06-CA	EM1/4", Set Screw	1/4"
T06EM09-CA	EM3/8", Set Screw	3/8"
T06EM12-CA	EM1/2", Set Screw	1/2"
T06EM16-CA01	EM5/8", Set Screw01	5/8"
T06EM16-CA02	EM5/8", Set Screw02	5/8"
T06EM19-CA01	EM3/4", Set Screw01	3/4"
T06EM19-CA02	EM3/4", Set Screw02	3/4"
T06EM25-CA01	EM1", Set Screw01	1", 1 1/4"
T06EM25-CA02	EM1", Set Screw02	1", 1 1/4"
T06EM25-CA03	EM1", Set Screw03	1", 1 1/4"
T06EM38-CA	EM1 1/2" Set Screw	1 1/2"
T06EM50-CA	EM 2" Set Screw	2"



P168-169

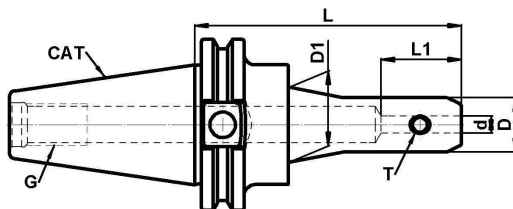
Order Number Instruction



END MILL HOLDER - 040 DIN 1835B

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm (0.00018")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



CAT40 END MILL HOLDER INCH

Order Number	Part Name	Cutter	Length	d	D	D1	L	L1	T	G
T00CA40040-03065A	CAT40 EM1/8"-2.56"	1/8"	2.56"	1/8"	0.69"	0.69"	2.56"	0.63"	No.6-32	5/8"-11
T00CA40040-03102A	CAT40 EM1/8"-4.00"	1/8"	4.00"	1/8"	0.69"	0.69"	4.00"	0.63"	No.6-32	
T00CA40040-05065A	CAT40 EM3/16"-2.56"	3/16"	2.56"	3/16"	0.79"	0.79"	2.56"	0.86"	No.8-32	
T00CA40040-05102A	CAT40 EM3/16"-4.00"	3/16"	4.00"	3/16"	0.79"	0.79"	4.00"	0.86"	No.8-32	
T00CA40040-06065A	CAT40 EM1/4"-2.56"	1/4"	2.56"	1/4"	0.79"	0.79"	2.56"	1.18"	1/4"-28	
T00CA40040-06102A	CAT40 EM1/4"-4.00"	1/4"	4.00"	1/4"	0.79"	0.79"	4.00"	1.18"	1/4"-28	
T00CA40040-06152A	CAT40 EM1/4"-6.00"	1/4"	6.00"	1/4"	0.79"	1.10"	6.00"	1.18"	1/4"-28	
T00CA40040-06203A	CAT40 EM1/4"-8.00"	1/4"	8.00"	1/4"	0.79"	1.10"	8.00"	1.18"	1/4"-28	
T00CA40040-08063A	CAT40 EM5/16"-2.50"	5/16"	2.50"	5/16"	1.00"	1.00"	2.50"	1.37"	1/4"-28	
T00CA40040-08102A	CAT40 EM5/16"-4.00"	5/16"	4.00"	5/16"	1.00"	1.00"	4.00"	1.38"	1/4"-28	
T00CA40040-08152A	CAT40 EM5/16"-6.00"	5/16"	6.00"	5/16"	1.00"	1.34"	6.00"	1.38"	1/4"-28	
T00CA40040-08203A	CAT40 EM5/16"-8.00"	5/16"	8.00"	5/16"	1.00"	1.34"	8.00"	1.38"	1/4"-28	
T00CA40040-09065A	CAT40 EM3/8"-2.56"	3/8"	2.56"	3/8"	1.00"	1.00"	2.56"	1.54"	3/8"-24	
T00CA40040-09102A	CAT40 EM3/8"-4.00"	3/8"	4.00"	3/8"	1.00"	1.00"	4.00"	1.54"	3/8"-24	
T00CA40040-09152A	CAT40 EM3/8"-6.00"	3/8"	6.00"	3/8"	1.00"	1.34"	6.00"	1.54"	3/8"-24	
T00CA40040-09203A	CAT40 EM3/8"-8.00"	3/8"	8.00"	3/8"	1.00"	1.34"	8.00"	1.54"	3/8"-24	
T00CA40040-12045A	CAT40 EM1/2"-1.75"	1/2"	1.75"	1/2"	1.38"	1.38"	1.75"	1.73"	7/16"-20	
T00CA40040-12065A	CAT40 EM1/2"-2.56"	1/2"	2.56"	1/2"	1.38"	1.38"	2.56"	1.73"	7/16"-20	
T00CA40040-12102A	CAT40 EM1/2"-4.00"	1/2"	4.00"	1/2"	1.38"	1.38"	4.00"	1.73"	7/16"-20	
T00CA40040-12152A	CAT40 EM1/2"-6.00"	1/2"	6.00"	1/2"	1.38"	1.38"	6.00"	1.73"	7/16"-20	
T00CA40040-12203A	CAT40 EM1/2"-8.00"	1/2"	8.00"	1/2"	1.38"	1.38"	8.00"	1.73"	7/16"-20	
T00CA40040-16045A	CAT40 EM5/8"-1.75"	5/8"	1.75"	5/8"	1.65"	1.65"	1.75"	2.09"	9/16"-18	
T00CA40040-16065A	CAT40 EM5/8"-2.56"	5/8"	2.56"	5/8"	1.65"	1.65"	2.56"	2.09"	9/16"-18	
T00CA40040-16102A	CAT40 EM5/8"-4.00"	5/8"	4.00"	5/8"	1.65"	1.65"	4.00"	2.09"	9/16"-18	
T00CA40040-16152A	CAT40 EM5/8"-6.00"	5/8"	6.00"	5/8"	1.65"	1.65"	6.00"	2.09"	9/16"-18	
T00CA40040-16203A	CAT40 EM5/8"-8.00"	5/8"	8.00"	5/8"	1.65"	1.65"	8.00"	2.09"	9/16"-18	
T00CA40040-19045A	CAT40 EM3/4"-1.75"	3/4"	1.75"	3/4"	1.89"	1.89"	1.75"	2.24"	5/8"-18	
T00CA40040-19065A	CAT40 EM3/4"-2.56"	3/4"	2.56"	3/4"	1.89"	1.89"	2.56"	2.24"	5/8"-18	
T00CA40040-19102A	CAT40 EM3/4"-4.00"	3/4"	4.00"	3/4"	1.89"	1.89"	4.00"	2.24"	5/8"-18	
T00CA40040-19152A	CAT40 EM3/4"-6.00"	3/4"	6.00"	3/4"	1.89"	1.89"	6.00"	2.24"	5/8"-18	
T00CA40040-19203A	CAT40 EM3/4"-8.00"	3/4"	8.00"	3/4"	1.89"	1.89"	8.00"	2.24"	5/8"-18	
T00CA40040-22045A	CAT40 EM7/8"-1.75"	7/8"	1.75"	7/8"	2.00"	2.00"	1.75"	2.17"	5/8"-18	
T00CA40040-22089A	CAT40 EM7/8"-3.50"	7/8"	3.50"	7/8"	2.00"	2.00"	3.50"	2.17"	5/8"-18	
T00CA40040-22152A	CAT40 EM7/8"-6.00"	7/8"	6.00"	7/8"	2.00"	2.00"	6.00"	2.17"	5/8"-18	
T00CA40040-22203A	CAT40 EM7/8"-8.00"	7/8"	8.00"	7/8"	2.00"	2.00"	8.00"	2.17"	5/8"-18	
T00CA40040-25050A	CAT40 EM1"-1.97"	1"	1.97"	1"	2.25"	2.25"	1.97"	2.52"	3/4"-16	
T00CA40040-25102A	CAT40 EM1"-4.00"	1"	4.00"	1"	2.36"	2.36"	4.00"	2.52"	3/4"-16	
T00CA40040-25152A	CAT40 EM1"-6.00"	1"	6.00"	1"	2.36"	2.36"	6.00"	2.52"	3/4"-16	
T00CA40040-25203A	CAT40 EM1"-8.00"	1"	8.00"	1"	2.36"	2.36"	8.00"	2.52"	3/4"-16	
T00CA40040-32102A	CAT40 EM1 1/4"-4.00"	1 1/4"	4.00"	1 1/4"	2.52"	2.52"	4.00"	2.68"	3/4"-16	
T00CA40040-32120A	CAT40 EM1 1/4"-4.72"	1 1/4"	4.72"	1 1/4"	2.52"	2.52"	4.72"	2.68"	3/4"-16	
T00CA40040-32152A	CAT40 EM1 1/4"-6.00"	1 1/4"	6.00"	1 1/4"	2.52"	2.52"	6.00"	2.68"	3/4"-16	
T00CA40040-32203A	CAT40 EM1 1/4"-8.00"	1 1/4"	8.00"	1 1/4"	2.52"	2.52"	8.00"	2.68"	3/4"-16	

CAT50 END MILL HOLDER INCH

Order Number	Part Name	Cutter	Length	d	D	D1	L	L1	T	G
T00CA50040-06065A	CAT50 EM1/4"-2.56"	1/4"	2.56"	1/4"	0.79"	0.79"	2.56"	1.18"	1/4"-28	1"-8
T00CA50040-06102A	CAT50 EM1/4"-4.00"	1/4"	4.00"	1/4"	0.79"	0.79"	4.00"	1.18"	1/4"-28	
T00CA50040-06152A	CAT50 EM1/4"-6.00"	1/4"	6.00"	1/4"	0.79"	1.10"	6.00"	1.18"	1/4"-28	
T00CA50040-06203A	CAT50 EM1/4"-8.00"	1/4"	8.00"	1/4"	0.79"	1.10"	8.00"	1.18"	1/4"-28	
T00CA50040-08065A	CAT50 EM5/16"-2.56"	5/16"	2.56"	5/16"	1.00"	1.00"	2.56"	1.38"	1/4"-28	
T00CA50040-08102A	CAT50 EM5/16"-4.00"	5/16"	4.00"	5/16"	1.00"	1.00"	4.00"	1.38"	1/4"-28	
T00CA50040-08152A	CAT50 EM5/16"-6.00"	5/16"	6.00"	5/16"	1.00"	1.34"	6.00"	1.38"	1/4"-28	
T00CA50040-08203A	CAT50 EM5/16"-8.00"	5/16"	8.00"	5/16"	1.00"	1.34"	8.00"	1.38"	1/4"-28	
T00CA50040-09065A	CAT50 EM3/8"-2.56"	3/8"	2.56"	3/8"	1.00"	1.00"	2.56"	1.54"	3/8"-24	
T00CA50040-09102A	CAT50 EM3/8"-4.00"	3/8"	4.00"	3/8"	1.00"	1.00"	4.00"	1.54"	3/8"-24	
T00CA50040-09152A	CAT50 EM3/8"-6.00"	3/8"	6.00"	3/8"	1.00"	1.34"	6.00"	1.54"	3/8"-24	
T00CA50040-09203A	CAT50 EM3/8"-8.00"	3/8"	8.00"	3/8"	1.00"	1.34"	8.00"	1.54"	3/8"-24	
T00CA50040-12075A	CAT50 EM1/2"-2.95"	1/2"	2.95"	1/2"	1.38"	1.38"	2.95"	1.73"	7/16"-20	
T00CA50040-12102A	CAT50 EM1/2"-4.00"	1/2"	4.00"	1/2"	1.38"	1.38"	4.00"	1.73"	7/16"-20	

STANDARD TOOL HOLDER

END MILL HOLDER - 040 DIN 1835B

Order Number	Part Name	Cutter	Length	d	D	D1	L	L1	T	G
T00CA50040-12152A	CAT50 EM1/2"-6.00"	1/2"	6.00"	1/2"	1.38"	1.38"	6.00"	1.73"	7/16"-20	1"- 8
T00CA50040-12203A	CAT50 EM1/2"-8.00"	1/2"	8.00"	1/2"	1.38"	1.38"	8.00"	1.73"	7/16"-20	
T00CA50040-16076A	CAT50 EM5/8"-3.00"	5/8"	3.00"	5/8"	1.65"	1.65"	3.00"	2.09"	9/16"-18	
T00CA50040-16102A	CAT50 EM5/8"-4.00"	5/8"	4.00"	5/8"	1.65"	1.65"	4.00"	2.09"	9/16"-18	
T00CA50040-16152A	CAT50 EM5/8"-6.00"	5/8"	6.00"	5/8"	1.65"	1.65"	6.00"	2.09"	9/16"-18	
T00CA50040-16203A	CAT50 EM5/8"-8.00"	5/8"	8.00"	5/8"	1.65"	1.65"	8.00"	2.09"	9/16"-18	
T00CA50040-19076A	CAT50 EM3/4"-3.00"	3/4"	3.00"	3/4"	1.89"	1.89"	3.00"	2.24"	5/8"-18	
T00CA50040-19102A	CAT50 EM3/4"-4.00"	3/4"	4.00"	3/4"	1.89"	1.89"	4.00"	2.24"	5/8"-18	
T00CA50040-19152A	CAT50 EM3/4"-6.00"	3/4"	6.00"	3/4"	1.89"	1.89"	6.00"	2.24"	5/8"-18	
T00CA50040-19203A	CAT50 EM3/4"-8.00"	3/4"	8.00"	3/4"	1.89"	1.89"	8.00"	2.24"	5/8"-18	
T00CA50040-22089A	CAT50 EM7/8"-3.50"	7/8"	3.5"	7/8"	2.00"	2.00"	3.5"	2.17"	5/8"-18	
T00CA50040-22152A	CAT50 EM7/8"-6.00"	7/8"	6.00"	7/8"	2.00"	2.00"	6.00"	2.17"	5/8"-18	
T00CA50040-22203A	CAT50 EM7/8"-8.00"	7/8"	8.00"	7/8"	2.00"	2.00"	8.00"	2.17"	5/8"-18	
T00CA50040-25102A	CAT50 EM1"-4.00"	1"	4.00"	1"	2.25"	2.25"	4.00"	2.52"	3/4"-16	
T00CA50040-25152A	CAT50 EM1"-6.00"	1"	6.00"	1"	2.36"	2.36"	6.00"	2.52"	3/4"-16	
T00CA50040-25203A	CAT50 EM1"-8.00"	1"	8.00"	1"	2.36"	2.36"	8.00"	2.52"	3/4"-16	
T00CA50040-32102A	CAT50 EM1 1/4"-4.00"	1 1/4"	4.00"	1 1/4"	2.52"	2.52"	4.00"	2.68"	3/4"-16	
T00CA50040-32152A	CAT50 EM1 1/4"-6.00"	1 1/4"	6.00"	1 1/4"	2.52"	2.52"	6.00"	2.68"	3/4"-16	
T00CA50040-32203A	CAT50 EM1 1/4"-8.00"	1 1/4"	8.00"	1 1/4"	2.52"	2.52"	8.00"	2.68"	3/4"-16	
T00CA50040-38102A	CAT50 EM1 1/2"-4.00"	1 1/2"	4.00"	1 1/2"	2.75"	2.75"	4.00"	2.38"	3/4"-16	
T00CA50040-38152A	CAT50 EM1 1/2"-6.00"	1 1/2"	6.00"	1 1/2"	2.75"	2.75"	6.00"	2.38"	3/4"-16	
T00CA50040-38203A	CAT50 EM1 1/2"-8.00"	1 1/2"	8.00"	1 1/2"	2.75"	2.75"	8.00"	2.38"	3/4"-16	
T00CA50040-50152A	CAT50 EM2"-6.00"	2"	6.00"	2"	3.75"	3.75"	6.00"	3.38"	1"-14	
T00CA50040-50203A	CAT50 EM2"-8.00"	2"	8.00"	2"	3.75"	3.75"	8.00"	3.38"	1"-14	

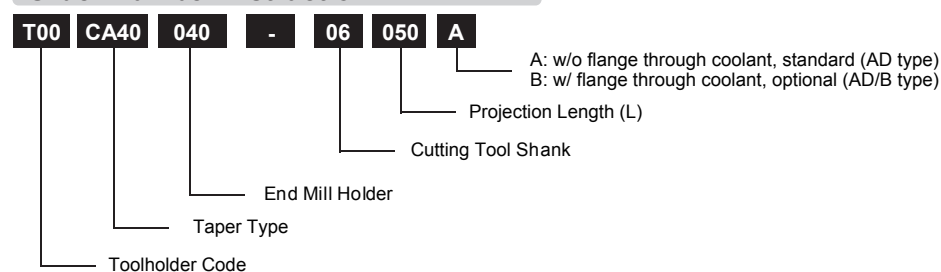
ACCESSORIES:

Set Screw for End Mill Holder INCH		
Order Number	Part Name	End Mill
T06EM03-CA	EM1/8",Set Screw	1/8"
T06EM05-CA	EM3/16",Set Screw	3/16"
T06EM06-CA	EM1/4",Set Screw	1/4"
T06EM09-CA	EM3/8",Set Screw	3/8"
T06EM12-CA	EM1/2",Set Screw	1/2"
T06EM16-CA01	EM5/8",Set Screw01	5/8"
T06EM16-CA02	EM5/8",Set Screw02	5/8"
T06EM19-CA01	EM3/4",Set Screw01	3/4"
T06EM19-CA02	EM3/4",Set Screw02	3/4"
T06EM25-CA01	EM1",Set Screw01	1", 1 1/4"
T06EM25-CA02	EM1",Set Screw02	1", 1 1/4"
T06EM25-CA03	EM1",Set Screw03	1", 1 1/4"
T06EM38-CA	EM1 1/2" Set Screw	1 1/2"
T06EM50-CA	EM 2" Set Screw	2"



P168~169

Order Number Instruction

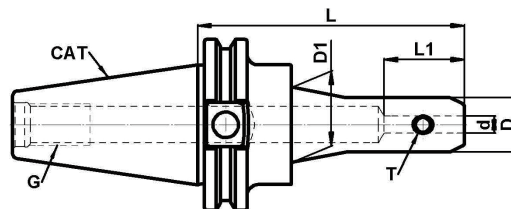


STANDARD TOOL HOLDER

END MILL HOLDER - 040 DIN 1835B

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm (0.00018")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



CAT40 END MILL HOLDER METRIC

Order Number	Part Name	Cutter mm	Length	d mm	D	D1	L	L1	T	G
T00CA40040B06065A	CAT40 EM06-2.56"	6	2.56"	6	0.79"	0.79"	2.56"	1.18"	1/4"-28	5/8"-11
T00CA40040B06102A	CAT40 EM06-4.00"	6	4.00"	6	0.79"	0.79"	4.00"	1.18"	1/4"-28	
T00CA40040B08063A	CAT40 EM08-2.50"	8	2.50"	8	1.00"	1.00"	2.50"	1.38"	1/4"-28	
T00CA40040B08102A	CAT40 EM08-4.00"	8	4.00"	8	1.00"	1.00"	4.00"	1.38"	1/4"-28	
T00CA40040B10065A	CAT40 EM10-2.56"	10	2.50"	10	1.00"	1.00"	2.50"	1.54"	3/8"-24	
T00CA40040B10102A	CAT40 EM10-4.00"	10	4.00"	10	1.00"	1.00"	4.00"	1.54"	3/8"-24	
T00CA40040B12065A	CAT40 EM12-2.56"	12	2.50"	12	1.38"	1.38"	2.50"	1.73"	7/16"-20	
T00CA40040B12102A	CAT40 EM12-4.00"	12	4.00"	12	1.38"	1.38"	4.00"	1.73"	7/16"-20	
T00CA40040B16065A	CAT40 EM16-2.56"	16	2.56"	16	1.65"	1.65"	2.56"	2.09"	9/16"-18	
T00CA40040B16102A	CAT40 EM16-4.00"	16	4.00"	16	1.65"	1.65"	4.00"	2.09"	9/16"-18	
T00CA40040B20065A	CAT40 EM20-2.56"	20	2.56"	20	1.75"	1.75"	2.56"	2.24"	5/8"-18	
T00CA40040B20102A	CAT40 EM20-4.00"	20	4.00"	20	1.75"	1.75"	4.00"	2.24"	5/8"-18	
T00CA40040B25102A	CAT40 EM25-4.00"	25	4.00"	25	2.36"	2.36"	4.00"	2.52"	3/4"-16	3/4"-16
T00CA40040B32120A	CAT40 EM32-4.72"	32	4.72"	32	2.52"	2.52"	4.72"	2.68"	3/4"-16	

CAT50 END MILL HOLDER METRIC

Order Number	Part Name	Cutter mm	Length	d mm	D	D1	L	L1	T	G
T00CA50040B06065A	CAT50 EM06-2.56"	6	2.56"	6	0.79"	0.79"	2.56"	1.18"	1/4"-28	1"-8
T00CA50040B06102A	CAT50 EM06-4.00"	6	4.00"	6	0.79"	0.79"	4.00"	1.18"	1/4"-28	
T00CA50040B08065A	CAT50 EM08-2.56"	8	2.56"	8	1.00"	1.00"	2.56"	1.38"	1/4"-28	
T00CA50040B08102A	CAT50 EM08-4.00"	8	4.00"	8	1.00"	1.00"	4.00"	1.38"	1/4"-28	
T00CA50040B10065A	CAT50 EM10-2.56"	10	2.50"	10	1.00"	1.00"	2.50"	1.54"	3/8"-24	
T00CA50040B10102A	CAT50 EM10-4.00"	10	4.00"	10	1.00"	1.00"	4.00"	1.54"	3/8"-24	
T00CA50040B12075A	CAT50 EM12-2.95"	12	2.95"	12	1.38"	1.38"	2.95"	1.73"	7/16"-20	
T00CA50040B12102A	CAT50 EM12-4.00"	12	4.00"	12	1.38"	1.38"	4.00"	1.73"	7/16"-20	
T00CA50040B16076A	CAT50 EM16-3.00"	16	3.00"	16	1.65"	1.65"	3.00"	2.09"	9/16"-18	
T00CA50040B16102A	CAT50 EM16-4.00"	16	4.00"	16	1.65"	1.65"	4.00"	2.09"	9/16"-18	
T00CA50040B20076A	CAT50 EM20-3.00"	20	3.00"	20	1.75"	1.75"	3.00"	2.24"	5/8"-18	
T00CA50040B20102A	CAT50 EM20-4.00"	20	4.00"	20	1.75"	1.75"	4.00"	2.24"	5/8"-18	
T00CA50040B25102A	CAT50 EM25-4.00"	25	4.00"	25	2.36"	2.36"	4.00"	2.52"	3/4"-16	3/4"-16
T00CA50040B32102A	CAT50 EM32-4.00"	32	4.00"	32	2.52"	2.52"	4.00"	2.68"	3/4"-16	

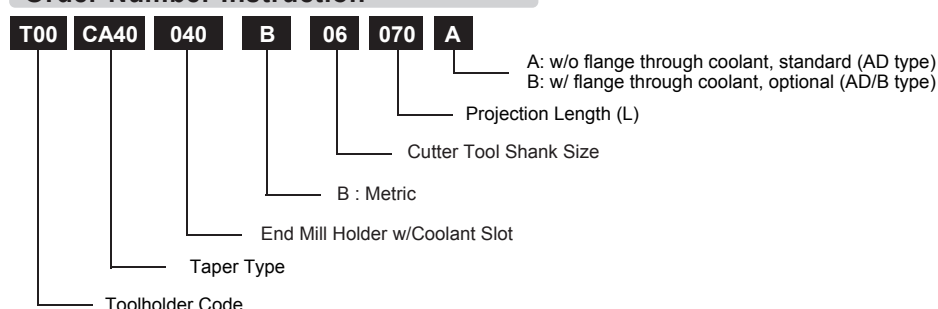
ACCESSORIES:

Set Screw for End Mill Holder METRIC

Order Number	Part Name	End Mill
T06EM03-CA	EM1/8",Set Screw	1/8"
T06EM05-CA	EM3/16",Set Screw	3/16"
T06EM06-CA	EM1/4",Set Screw	1/4"
T06EM09-CA	EM3/8",Set Screw	3/8"
T06EM12-CA	EM1/2",Set Screw	1/2"
T06EM16-CA01	EM5/8",Set Screw01	5/8"
T06EM16-CA02	EM5/8",Set Screw02	5/8"
T06EM19-CA01	EM3/4",Set Screw01	3/4"
T06EM19-CA02	EM3/4",Set Screw02	3/4"
T06EM25-CA01	EM1",Set Screw01	1", 1 1/4"
T06EM25-CA02	EM1",Set Screw02	1", 1 1/4"
T06EM25-CA03	EM1",Set Screw03	1", 1 1/4"
T06EM38-CA	EM1 1/2" Set Screw	1 1/2"
T06EM50-CA	EM 2" Set Screw	2"



Order Number Instruction

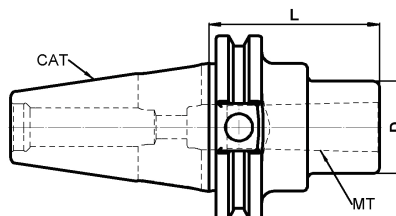


STANDARD TOOL HOLDER

MORSE TAPER HOLDER - 070 DIN6383

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm (0.00018")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



CAT40 MORSE TAPER HOLDER INCH

Order Number	Part Name	MT	Length	MT	D	L
T00CA40070-01045A	CAT40 MK1-1.75"	MT1	1.75"	MT1	1.00"	1.75"
T00CA40070-02060A	CAT40 MK2-2.36"	MT2	2.36"	MT2	1.25"	2.36"
T00CA40070-03076A	CAT40 MK3-3.00"	MT3	3.00"	MT3	1.57"	3.00"
T00CA40070-04090A	CAT40 MK4-3.54"	MT4	3.54"	MT4	1.89"	3.54"

CAT50 MORSE TAPER HOLDER INCH

Order Number	Part Name	MT	Length	MT	D	L
T00CA50070-01045A	CAT50 MK1-1.75"	MT1	1.75"	MT1	1.00"	1.75"
T00CA50070-02060A	CAT50 MK2-2.36"	MT2	2.36"	MT2	1.25"	2.36"
T00CA50070-03065A	CAT50 MK3-2.56"	MT3	2.56"	MT3	1.57"	2.56"
T00CA50070-04076A	CAT50 MK4-3.54"	MT4	3.54"	MT4	1.89"	3.54"
T00CA50070-05105A	CAT50 MK5-4.13"	MT5	4.13"	MT5	2.48"	4.13"



P168~169

Order Number Instruction

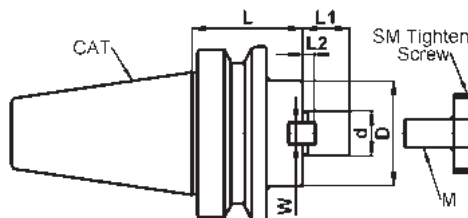
T00	CA40	070	-	M2	050	A
Toolholder Code	Taper Type	Morse Taper Holder	Morse Taper Size	Projection Length (L)	A: w/o flange through coolant, standard (AD type) B: w/ flange through coolant, optional (AD/B type)	

STANDARD TOOL HOLDER

SHELL MILLING HOLDER - 120

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm (0.00018")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



CAT40 SHELL MILLING HOLDER INCH

Order Number	Part Name	d	L	D	L1	L2	W	M
T00CA40120-19035A	CAT40 SM 3/4"-1.38"	3/4"	1.38"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40120-19070A	CAT40 SM 3/4"-2.75"	3/4"	2.75"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40120-19102A	CAT40 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40120-19152A	CAT40 SM 3/4"-6.00"	3/4"	6.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40120-19203A	CAT40 SM 3/4"-8.00"	3/4"	8.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40120-25051A	CAT40 SM 1"-2.00"	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA40120-25102A	CAT40 SM 1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA40120-25152A	CAT40 SM 1"-6.00"	1"	6.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA40120-25203A	CAT40 SM 1"-8.00"	1"	8.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA40120-32051A	CAT40 SM 1 1/4"-2.00"	1 1/4"	2.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA40120-32102A	CAT40 SM 1 1/4"-4.00"	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA40120-32152A	CAT40 SM 1 1/4"-6.00"	1 1/4"	6.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA40120-38061A	CAT40 SM 1 1/2"-2.40"	1 1/2"	2.40"	3.38"	0.94"	0.35"	5/8"	3/4"-16

CAT50 SHELL MILLING HOLDER INCH

Order Number	Part Name	d	L	D	L1	L2	W	M
T00CA50120-19051A	CAT50 SM 3/4"-2.00"	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50120-19102A	CAT50 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50120-19152A	CAT50 SM 3/4"-6.00"	3/4"	6.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50120-19203A	CAT50 SM 3/4"-8.00"	3/4"	8.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50120-19051A01	CAT50 SMB 3/4"-2.00"	3/4"	2.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00CA50120-19102A01	CAT50 SMB 3/4"-4.00"	3/4"	4.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00CA50120-19152A01	CAT50 SMB 3/4"-6.00"	3/4"	6.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00CA50120-19203A01	CAT50 SMB 3/4"-8.00"	3/4"	8.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00CA50120-25051A	CAT50 SM 1"-2.00"	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50120-25102A	CAT50 SM 1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50120-25152A	CAT50 SM 1"-6.00"	1"	6.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50120-25203A	CAT50 SM 1"-8.00"	1"	8.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50120-25051A01	CAT50 SMB 1"-2.00"	1"	2.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00CA50120-25102A01	CAT50 SMB 1"-4.00"	1"	4.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00CA50120-25152A01	CAT50 SMB 1"-6.00"	1"	6.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00CA50120-25203A01	CAT50 SMB 1"-8.00"	1"	8.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00CA50120-32051A	CAT50 SM 1 1/4"-2.00"	1 1/4"	2.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50120-32102A	CAT50 SM 1 1/4"-4.00"	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50120-32152A	CAT50 SM 1 1/4"-6.00"	1 1/4"	6.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50120-32203A	CAT50 SM 1 1/4"-8.00"	1 1/4"	8.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50120-32051A01	CAT50 SMB 1 1/4"-2.00"	1 1/4"	2.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00CA50120-32102A01	CAT50 SMB 1 1/4"-4.00"	1 1/4"	4.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00CA50120-32152A01	CAT50 SMB 1 1/4"-6.00"	1 1/4"	6.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00CA50120-32203A01	CAT50 SMB 1 1/4"-8.00"	1 1/4"	8.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00CA50120-38061A	CAT50 SM 1 1/2"-2.40"	1 1/2"	2.40"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00CA50120-38102A	CAT50 SM 1 1/2"-4.00"	1 1/2"	4.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00CA50120-38061A01	CAT50 SMB 1 1/2"-2.40"	1 1/2"	2.40"	3.90"	0.94"	0.35"	5/8"	3/4"-16
T00CA50120-38102A01	CAT50 SMB 1 1/2"-4.00"	1 1/2"	4.00"	3.90"	0.94"	0.35"	5/8"	3/4"-16
T00CA50120-50061A	CAT50 SM 2"-2.40"	2"	2.40"	4.88"	0.94"	0.39"	3/4"	1"-14
T00CA50120-50102A	CAT50 SM 2"-4.00"	2"	4.00"	4.88"	0.94"	0.39"	3/4"	1"-14

ACCESSORIES:

LOCK SCREW INCH

Order Number	Part Name	Pilot Size
T06SM19-CAT	SM3/4" Lock Screw	SM3/4"
T06SM25-CAT	SM1" Lock Screw	SM1"
T06SM32-CAT	SM1 1/4" Lock Screw	SM1 1/4"
T06SM38-CAT	SM1 1/2" Lock Screw	SM1 1/2"
T06SM50-CAT	SM2" Lock Screw	SM2"



DRIVING KEY INCH

Order Number	Part Name	Pilot Size
T10SM19	SM3/4" Driving Key	SM3/4"
T10SM25.4	SM1" Driving Key	SM1"
T10SM31	SM1 1/4" Driving Key	SM1 1/4"
T10SM38	SM1 1/2" Driving Key	SM1 1/2"
T10SM50	SM2" Driving Key	SM2"
T10SM63	SM2 1/2" Driving Key	SM2 1/2"



P168~169

Order Number Instruction

T00 CA40 120 - 16 045 A

T00: Toolholder Code
 CA40: Taper Type
 120: Shell Milling Adapter
 -: Projection Length (L)
 16: Pilot Size
 045: Pilot Size
 A: w/o flange through coolant, standard (AD type)
 B: w/ flange through coolant, optional (AD/B type)

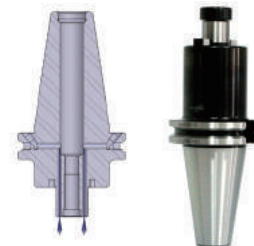
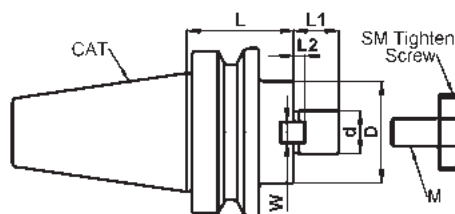
STANDARD TOOL HOLDER

SHELL MILLING HOLDER COOLANT SLOT - 130

COOLANT SLOT

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.00018")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



CAT40 SHELL MILLING HOLDER COOLANT SLOT INCH

Order Number	Part Name	d	L	D	L1	L2	W	M
T00CA40130-19035A	CAT40 SM 3/4"-1.38"J	3/4"	1.38"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40130-19070A	CAT40 SM 3/4"-2.75"J	3/4"	2.75"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40130-19102A	CAT40 SM 3/4"-4.00"J	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40130-19152A	CAT40 SM 3/4"-6.00"J	3/4"	6.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40130-19203A	CAT40 SM 3/4"-8.00"J	3/4"	8.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40130-25051A	CAT40 SM 1"-2.00"J	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA40130-19202A	CAT40 SM 1"-4.00"J	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA40130-25152A	CAT40 SM 1"-6.00"J	1"	6.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA40130-25203A	CAT40 SM 1"-8.00"J	1"	8.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA40130-32051A	CAT40 SM 1 1/4"-2.00"J	1 1/4"	2.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA40130-32102A	CAT40 SM 1 1/4"-4.00"J	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA40130-32152A	CAT40 SM 1 1/4"-6.00"J	1 1/4"	6.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA40130-38061A	CAT40 SM 1 1/2"-2.40"J	1 1/2"	2.40"	3.38"	0.94"	0.35"	5/8"	3/4"-16

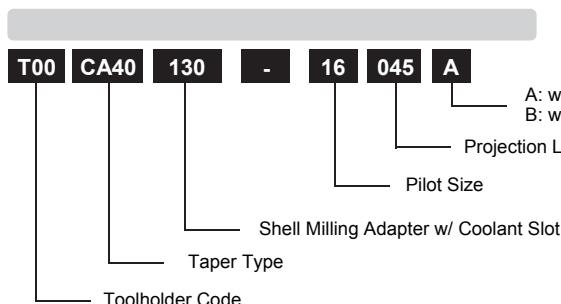
CAT50 SHELL MILLING HOLDER COOLANT SLOT INCH

Order Number	Part Name	d	L	D	L1	L2	W	M
T00CA50130-19051A	CAT50 SM 3/4"-2.00"J	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50130-19102A	CAT50 SM 3/4"-4.00"J	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50130-19152A	CAT50 SM 3/4"-6.00"J	3/4"	6.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50130-19203A	CAT50 SM 3/4"-8.00"J	3/4"	8.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50130-19254A	CAT50 SM 3/4"-10.00"J	3/4"	10.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50130-19381A	CAT50 SM 3/4"-15.00"J	3/4"	15.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50130-25051A	CAT50 SM 1"-2.00"J	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50130-25102A	CAT50 SM 1"-4.00"J	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50130-25152A	CAT50 SM 1"-6.00"J	1"	6.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50130-25203A	CAT50 SM 1"-8.00"J	1"	8.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50130-25254A	CAT50 SM 1"-10.00"J	1"	10.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50130-25381A	CAT50 SM 1"-15.00"J	1"	15.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50130-32051A	CAT50 SM 1 1/4"-2.00"J	1 1/4"	2.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50130-32102A	CAT50 SM 1 1/4"-4.00"J	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50130-32152A	CAT50 SM 1 1/4"-6.00"J	1 1/4"	6.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50130-32203A	CAT50 SM 1 1/4"-8.00"J	1 1/4"	8.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50130-32254A	CAT50 SM 1 1/4"-10.00"J	1 1/4"	10.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50130-32381A	CAT50 SM 1 1/4"-15.00"J	1 1/4"	15.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50130-38061A	CAT50 SM 1 1/2"-2.40"J	1 1/2"	2.40"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00CA50130-38102A	CAT50 SM 1 1/2"-4.00"J	1 1/2"	4.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00CA50130-50061A	CAT50 SM 2"-2.40"J	2"	2.40"	4.88"	0.94"	0.39"	3/4"	1"-14
T00CA50130-50102A	CAT50 SM 2"-4.00"J	2"	4.00"	4.88"	0.94"	0.39"	3/4"	1"-14

ACCESSORIES:

DRIVING KEY INCH		
Order Number	Part Name	Pilot Size
T10SM19	SM3/4" Driving Key	SM3/4"
T10SM25.4	SM1" Driving Key	SM1"
T10SM31	SM1 1/4" Driving Key	SM1 1/4"
T10SM38	SM1 1/2" Driving Key	SM1 1/2"
T10SM50	SM2" Driving Key	SM2"
T10SM63	SM2 1/2" Driving Key	SM2 1/2"

LOCK SCREW INCH		
Order Number	Part Name	Pilot Size
T06SM19-CAT	SM3/4" Lock Screw	SM3/4"
T06SM25-CAT	SM1" Lock Screw	SM1"
T06SM32-CAT	SM1 1/4" Lock Screw	SM1 1/4"
T06SM38-CAT	SM1 1/2" Lock Screw	SM1 1/2"
T06SM50-CAT	SM2" Lock Screw	SM2"



A: w/o flange through coolant, standard (AD type)
B: w/ flange through coolant, optional (AD/B type)

Projection Length (L)

Pilot Size

Shell Milling Adapter w/ Coolant Slot

Taper Type

Toolholder Code



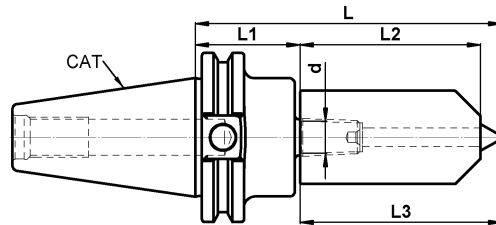
P168~169

STANDARD TOOL HOLDER

DRILL CHUCK HOLDER - 140

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Balance: G6.3 25000rpm
Option to G2.5 25000rpm



CAT40 DRILL CHUCK HOLDER

Order Number	Part Name	Mount	Length	Capabilities	d	L	L1	L2	L3
T00CA40140B08109C-B12	CAT40 DC08-4.30"-B12	B12	4.30"	0.3-8 1/64-5/16"	B12	4.30"	1.625"	2.68"	2.99"
T00CA40140B10121C-B12	CAT40 DC10-4.77"-B12	B12	4.77"	0.3-10 1/64-3/8"	B12	4.77"	1.625"	3.15"	3.62"
T00CA40140B13131C-B12	CAT40 DC13-5.17"-B12	B12	5.17"	0.3-13 1/64-1/2"	B12	5.17"	1.625"	3.54"	4.02"
T00CA40140B16138C-B16	CAT40 DC16-5.44"-B16	B16	5.44"	3-16 1/8"-5/8"	B16	5.44"	1.625"	3.82"	4.33"
T00CA40140-09121C-JT2	CAT40 DC3/8"-4.77"-JT2	JT2	4.77"	0.3-10 1/64-3/8"	JT2	4.77"	1.625"	3.15"	3.62"
T00CA40140-12131C-JT2	CAT40 DC1/2"-5.17"-JT2	JT2	5.17"	0.3-13 1/64-1/2"	JT2	5.17"	1.625"	3.54"	4.02"
T00CA40140-16127C-JT6	CAT40 DC5/8"-5.44"-JT6	JT6	5.44"	3-16 1/8"-5/8"	JT6	5.44"	1.625"	3.82"	4.33"

CAT50 DRILL CHUCK HOLDER

Order Number	Part Name	Mount	Length	Capabilities	d	L	L1	L2	L3
T00CA50140B13131C-B12	CAT50 DC13-5.17"-B12	B12	5.17"	0.3-13 1/64-1/2"	B12	5.17"	1.625"	3.54"	4.02"
T00CA50140B16138C-B16	CAT50 DC16-5.44"-B16	B16	5.44"	3-16 1/8"-5/8"	B16	5.44"	1.625"	3.82"	4.33"
T00CA50140-12132C-JT2	CAT50 DC1/2"-5.17"-JT2	JT2	5.17"	0.3-13 1/64-1/2"	JT2	5.17"	1.625"	3.54"	4.02"
T00CA50140-16139C-JT6	CAT50 DC5/8"-5.44"-JT6	JT6	5.44"	3-16 1/8"-5/8"	JT6	5.44"	1.625"	3.82"	4.33"

ACCESSORIES:

DRILL CHUCK WRENCH

Order Number	Part Name	Type	DC size
T07DC08-C	DC08 Wrench	C Type	8, 5/16"
T07DC10-C	DC10 Wrench	C Type	10, 3/8"
T07DC13-C	DC13 Wrench	C Type	13, 1/2"
T07DC16-C	DC16 Wrench	C Type	16, 5/8"



Order Number Instruction

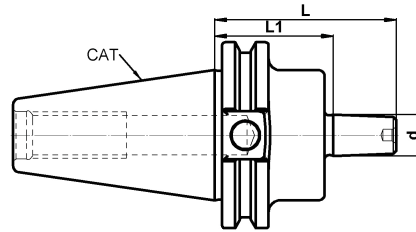
T00	CA40	140	-	16	127	C
C: w/o flange through coolant and w/o center coolant						
Projection Length (L)						
Clamping Range						
- : Inch dimension (inch) B: metric dimension (mm)						
Drill Chuck Holder						
Taper Type						
Toolholder Code						

STANDARD TOOL HOLDER

DRILL CHUCK ARBOR - 140

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000rpm
Option to G2.5 25000rpm



CAT40 DRILL CHUCK ARBOR

Order Number	Part Name	Mount	Length	L	L1	d	Taper
T01CA40140B12041C	CAT40 B12-1.625"	B12	1.625"	2.33"	1.625"	0.47"	B12
T01CA40140B16041C	CAT40 B16-1.625"	B16	1.625"	2.53"	1.625"	0.63"	B16
T01CA40140-J2041C	CAT40 JT2-1.625"	JT2	1.625"	2.53"	1.625"	0.56"	JT2
T01CA40140-J6041C	CAT40 JT6-1.625"	JT6	1.625"	2.58"	1.625"	0.68"	JT6

CAT50 DRILL CHUCK ARBOR

Order Number	Part Name	Mount	Length	L	L1	d	Taper
T01CA50140B12041C	CAT50 B12-1.625"	B12	1.625"	2.33"	1.625"	0.47"	B12
T01CA50140B16041C	CAT50 B16-1.625"	B16	1.625"	2.53"	1.625"	0.63"	B16
T01CA50140-J2041C	CAT50 JT2-1.625"	JT2	1.625"	2.53"	1.625"	0.56"	JT2
T01CA50140-J6041C	CAT50 JT6-1.625"	JT6	1.625"	2.58"	1.625"	0.68"	JT6



P168~169

Order Number Instruction

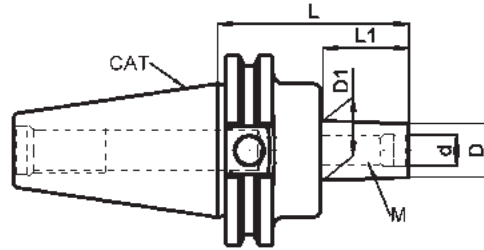
T00	CA40	140	B16	127	C
					C: w/o flange through coolant and w/o center coolant
					Projection Length (L)
					Pilot Size
					140:Stanard Drill Chuck Holder
					Taper Type
					Toolholder Code

STANDARD TOOL HOLDER

SCREW-IN HOLDER - 200

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



CAT40 SCREW-IN HOLDER INCH

Order Number	Part Name	M	L	D	D1	d	L1
T00CA40200-08040A	CAT40 M08-1.58"	M08	1.58"	0.59"	0.59"	0.34"	0.20"
T00CA40200-08065A	CAT40 M08-2.56"	M08	2.56"	0.59"	0.63"	0.34"	1.37"
T00CA40200-08087A	CAT40 M08-3.43"	M08	3.43"	0.51"	0.91"	0.34"	1.97"
T00CA40200-08102A	CAT40 M08-4.00"	M08	4.00"	0.51"	0.91"	0.34"	1.97"
T00CA40200-08127A	CAT40 M08-5.00"	M08	5.00"	0.51"	0.91"	0.34"	1.97"
T00CA40200-08152A	CAT40 M08-6.00"	M08	6.00"	0.51"	0.91"	0.34"	1.97"
T00CA40200-10040A	CAT40 M10-1.58"	M10	1.58"	0.71"	0.71"	0.41"	0.20"
T00CA40200-10065A	CAT40 M10-2.56"	M10	2.56"	0.71"	0.78"	0.41"	1.37"
T00CA40200-10087A	CAT40 M10-3.43"	M10	3.43"	0.71"	0.99"	0.41"	1.97"
T00CA40200-10102A	CAT40 M10-4.00"	M10	4.00"	0.71"	0.99"	0.41"	1.97"
T00CA40200-10127A	CAT40 M10-5.00"	M10	5.00"	0.71"	0.99"	0.41"	1.97"
T00CA40200-10152A	CAT40 M10-6.00"	M10	6.00"	0.71"	0.99"	0.41"	1.97"
T00CA40200-12040A	CAT40 M12-1.58"	M12	1.58"	0.83"	0.83"	0.49"	0.20"
T00CA40200-12065A	CAT40 M12-2.56"	M12	2.56"	0.83"	0.90"	0.49"	1.37"
T00CA40200-12087A	CAT40 M12-3.43"	M12	3.43"	0.83"	0.95"	0.49"	1.97"
T00CA40200-12102A	CAT40 M12-4.00"	M12	4.00"	0.83"	0.95"	0.49"	1.97"
T00CA40200-12127A	CAT40 M12-5.00"	M12	5.00"	0.83"	1.38"	0.49"	3.54"
T00CA40200-12152A	CAT40 M12-6.00"	M12	6.00"	0.83"	1.38"	0.49"	3.54"
T00CA40200-12203A	CAT40 M12-8.00"	M12	8.00"	0.83"	1.38"	0.49"	3.54"
T00CA40200-16040A	CAT40 M16-1.58"	M16	1.58"	1.14"	1.14"	0.67"	0.20"
T00CA40200-16065A	CAT40 M16-2.56"	M16	2.56"	1.14"	1.34"	0.67"	1.37"
T00CA40200-16087A	CAT40 M16-3.43"	M16	3.43"	1.14"	1.34"	0.67"	1.97"
T00CA40200-16102A	CAT40 M16-4.00"	M16	4.00"	1.14"	1.34"	0.67"	1.97"
T00CA40200-16127A	CAT40 M16-5.00"	M16	5.00"	1.14"	1.54"	0.67"	3.54"
T00CA40200-16152A	CAT40 M16-6.00"	M16	6.00"	1.14"	1.54"	0.67"	3.54"
T00CA40200-16203A	CAT40 M16-8.00"	M16	8.00"	1.14"	1.54"	0.67"	3.54"



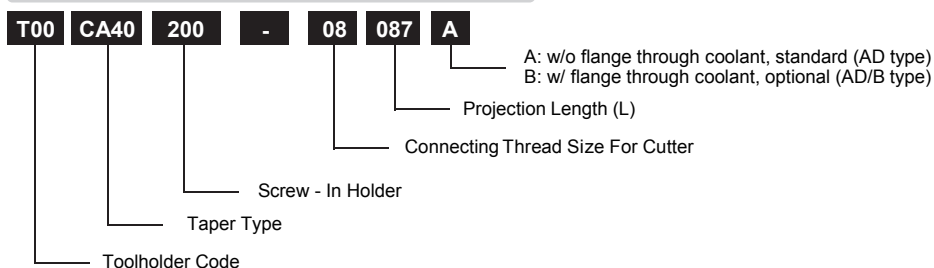
SCREW-IN HOLDER - 200

CAT50 SCREW-IN HOLDER INCH

Order Number	Part Name	M	L	D1	D2	d	L1
T00CA50200-08087A	CAT50 M08-3.43"	M08	3.43"	0.51"	0.91"	0.49"	1.97"
T00CA50200-08102A	CAT50 M08-4.00"	M08	4.00"	0.51"	0.91"	0.49"	1.97"
T00CA50200-08127A	CAT50 M08-5.00"	M08	5.00"	0.51"	0.91"	0.49"	1.97"
T00CA50200-10087A	CAT50 M10-3.43"	M10	3.43"	0.71"	0.99"	0.49"	1.97"
T00CA50200-10102A	CAT50 M10-4.00"	M10	4.00"	0.71"	0.99"	0.49"	1.97"
T00CA50200-10127A	CAT50 M10-5.00"	M10	5.00"	0.71"	0.99"	0.49"	1.97"
T00CA50200-12102A	CAT50 M12-4.00"	M12	4.00"	0.83"	0.95"	0.49"	1.97"
T00CA50200-12127A	CAT50 M12-5.00"	M12	5.00"	0.83"	1.38"	0.49"	3.54"
T00CA50200-12152A	CAT50 M12-6.00"	M12	6.00"	0.83"	1.38"	0.49"	3.54"
T00CA50200-12203A	CAT50 M12-8.00"	M12	8.00"	0.83"	1.38"	0.49"	3.54"
T00CA50200-16102A	CAT50 M16-4.00"	M16	4.00"	1.14"	1.34"	0.67"	1.97"
T00CA50200-16127A	CAT50 M16-5.00"	M16	5.00"	1.14"	1.54"	0.67"	3.54"
T00CA50200-16152A	CAT50 M16-6.00"	M16	6.00"	1.14"	1.54"	0.67"	3.54"
T00CA50200-16203A	CAT50 M16-8.00"	M16	8.00"	1.14"	1.54"	0.67"	3.54"



Order Number Instruction

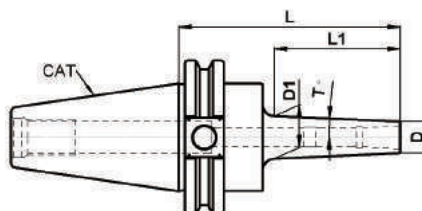


STANDARD TOOL HOLDER

SLIM COLLET CHUCK - 210

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



CAT40 SLIM COLLET CHUCK INCH

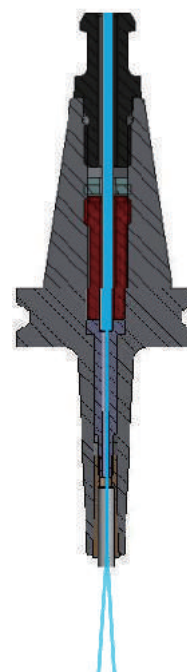
Order Number	Part Name	Collet	Length	L	D	D1	T°	L1
T00CA40210-06102A	CAT40 HC06-4.00"	HC06	4.00"	4.00"	0.51"	0.75"	2.5	2.82"
T00CA40210-06152A	CAT40 HC06-6.00"	HC06	6.00"	6.00"	0.51"	0.94"	2.5	4.82"
T00CA40210-06203A	CAT40 HC06-8.00"	HC06	8.00"	8.00"	0.51"	1.10"	2.5	6.82"
T00CA40210-10102A	CAT40 HC10-4.00"	HC10	4.00"	4.00"	0.79"	1.10"	3.0	2.82"
T00CA40210-10152A	CAT40 HC10-6.00"	HC10	6.00"	6.00"	0.79"	1.34"	3.0	4.82"
T00CA40210-10203A	CAT40 HC10-8.00"	HC10	8.00"	8.00"	0.79"	1.50"	3.0	6.82"
T00CA40210-16102A	CAT40 HC16-4.00"	HC16	4.00"	4.00"	1.26"	1.54"	3.0	2.82"
T00CA40210-16152A	CAT40 HC16-6.00"	HC16	6.00"	6.00"	1.26"	1.77"	3.0	4.82"
T00CA40210-16203A	CAT40 HC16-8.00"	HC16	8.00"	8.00"	1.26"	1.97"	3.0	6.82"

CAT50 SLIM COLLET CHUCK INCH

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1
T00CA50210-06102A	CAT50 HC06-4.00"	HC06	4.00"	4.00"	0.51"	0.75"	2.5	2.82"
T00CA50210-06152A	CAT50 HC06-6.00"	HC06	6.00"	6.00"	0.51"	0.94"	2.5	4.82"
T00CA50210-06203A	CAT50 HC06-8.00"	HC06	8.00"	8.00"	0.51"	1.10"	2.5	6.82"
T00CA50210-10102A	CAT50 HC10-4.00"	HC10	4.00"	4.00"	0.79"	1.10"	3.0	2.82"
T00CA50210-10152A	CAT50 HC10-6.00"	HC10	6.00"	6.00"	0.79"	1.34"	3.0	4.82"
T00CA50210-10203A	CAT50 HC10-8.00"	HC10	8.00"	8.00"	0.79"	1.50"	3.0	6.82"
T00CA50210-16102A	CAT50 HC16-4.00"	HC16	4.00"	4.00"	1.26"	1.54"	3.0	2.82"
T00CA50210-16152A	CAT50 HC16-6.00"	HC16	6.00"	6.00"	1.26"	1.77"	3.0	4.82"
T00CA50210-16203A	CAT50 HC16-8.00"	HC16	8.00"	8.00"	1.26"	1.97"	3.0	6.82"

Note:

Order exclude HC collet



STANDARD TOOL HOLDER

SLIM COLLET CHUCK - 210

ACCESSORIES:

HC COLLETS METRIC			
Order Number	Part Name	Collet	Shank
T03HC06-030	HC06 Collet 3mm	HC06	3
T03HC06-040	HC06 Collet 4mm	HC06	4
T03HC06-050	HC06 Collet 5mm	HC06	5
T03HC06-060	HC06 Collet 6mm	HC06	6
T03HC10-030	HC10 Collet 3mm	HC10	3
T03HC10-040	HC10 Collet 4mm	HC10	4
T03HC10-050	HC10 Collet 5mm	HC10	5
T03HC10-060	HC10 Collet 6mm	HC10	6
T03HC10-080	HC10 Collet 8mm	HC10	8
T03HC10-100	HC10 Collet 10mm	HC10	10
T03HC16-060	HC16 Collet 6mm	HC16	6
T03HC16-080	HC16 Collet 8mm	HC16	8
T03HC16-100	HC16 Collet 10mm	HC16	10
T03HC16-120	HC16 Collet 12mm	HC16	12
T03HC16-160	HC16 Collet 16mm	HC16	16



HC COLLETS INCH			
Order Number	Part Name	Collet	Shank
T03HC06A030	HC06 Collet 1/8"	HC06	1/8"
T03HC06A050	HC06 Collet 3/16"	HC06	3/16"
T03HC06A060	HC06 Collet 1/4"	HC06	1/4"
T03HC10A030	HC10 Collet 1/8"	HC10	1/8"
T03HC10A040	HC10 Collet 3/16"	HC10	3/16"
T03HC10A060	HC10 Collet 1/4"	HC10	1/4"
T03HC10A080	HC10 Collet 5/16"	HC10	5/16"
T03HC10A100	HC10 Collet 3/8"	HC10	3/8"
T03HC16A060	HC16 Collet 1/4"	HC16	1/4"
T03HC16A080	HC16 Collet 5/16"	HC16	5/16"
T03HC16A100	HC16 Collet 3/8"	HC16	3/8"
T03HC16A120	HC16 Collet 1/2"	HC16	1/2"
T03HC16A160	HC16 Collet 5/8"	HC16	5/8"

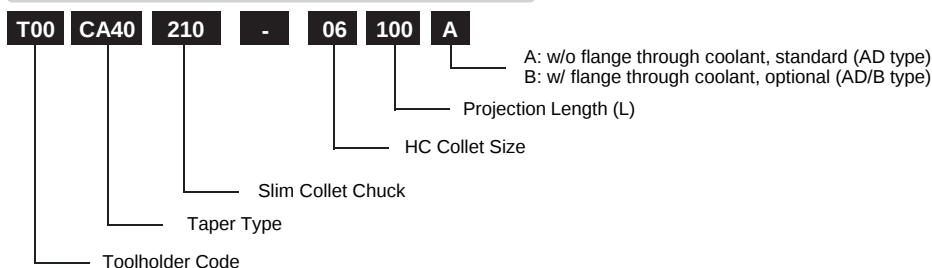
HC drawbar Screw for CAT Shank Slim Collet Chuck	
Order Number	Part Name
T06HC06100-BT40	BT40 HC06100 Drawbar Screw
T06HC06160-BT40	BT40 HC06160 Drawbar Screw
T06HC06200-BT40	BT40 HC06200 Drawbar Screw
T06HC10100-BT40	BT40 HC10100 Drawbar Screw
T06HC10160-BT40	BT40 HC10160 Drawbar Screw
T06HC10200-BT40	BT40 HC10200 Drawbar Screw
T06HC16100-BT40	BT40 HC16100 Drawbar Screw
T06HC16160-BT40	BT40 HC16160 Drawbar Screw
T06HC16200-BT40	BT40 HC16200 Drawbar Screw
T06HC16100-BT50	BT50 HC16100 Drawbar Screw
T06HC16160-BT50	BT50 HC16160 Drawbar Screw
T06HC16200-BT50	BT50 HC16200 Drawbar Screw



HC Screw for CAT Shank Slim Collet Chuck	
Order Number	Part Name
T06HC-CAT40-01	CAT40 HC06-01
T06HC-CAT40-02	CAT40 HC06-02
T06HC-CAT50-01	CAT50 HC06-01



Order Number Instruction



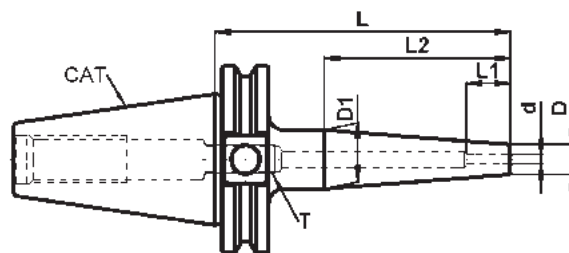
STANDARD TOOL HOLDER

SHRINK-FIT HOLDER 4.5° - 220

4.5°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



CAT40 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00CA40220-03080A	CAT40 SF1/8"-3.15"-4.5°	1/8"	3.15"	1/8"	1.89"	0.59"	0.39"	0.71"	S10	YES
T00CA40220-03102A	CAT40 SF1/8"-4.00"-4.5°	1/8"	4.00"	1/8"	2.50"	0.59"	0.39"	0.79"	S10	YES
T00CA40220-03152A	CAT40 SF1/8"-6.00"-4.5°	1/8"	6.00"	1/8"	2.50"	0.59"	0.39"	0.79"	S10	YES
T00CA40220-05080A	CAT40 SF3/16"-3.15"-4.5°	3/16"	3.15"	3/16"	1.89"	0.79"	0.47"	0.79"	S10	YES
T00CA40220-05102A	CAT40 SF3/16"-4.00"-4.5°	3/16"	4.00"	3/16"	2.50"	0.79"	0.47"	0.87"	S10	YES
T00CA40220-05152A	CAT40 SF3/16"-6.00"-4.5°	3/16"	6.00"	3/16"	2.50"	0.79"	0.47"	0.87"	S10	YES
T00CA40220-06080A	CAT40 SF1/4"-3.15"-4.5°	1/4"	3.15"	1/4"	1.77"	1.14"	0.83"	1.11"	M5	YES
T00CA40220-06102A	CAT40 SF1/4"-4.00"-4.5°	1/4"	4.00"	1/4"	1.77"	1.14"	0.83"	1.11"	M5	YES
T00CA40220-06152A	CAT40 SF1/4"-6.00"-4.5°	1/4"	6.00"	1/4"	1.50"	1.14"	0.83"	1.06"	M5	YES
T00CA40220-08080A	CAT40 SF5/16"-3.15"-4.5°	5/16"	3.15"	5/16"	1.77"	0.87"	0.83"	1.11"	M6	YES
T00CA40220-08102A	CAT40 SF5/16"-4.00"-4.5°	5/16"	4.00"	5/16"	1.77"	0.87"	0.83"	1.11"	M6	YES
T00CA40220-08152A	CAT40 SF5/16"-6.00"-4.5°	5/16"	6.00"	5/16"	2.52"	0.87"	0.83"	1.22"	M6	YES
T00CA40220-09080A	CAT40 SF3/8"-3.15"-4.5°	3/8"	3.15"	3/8"	1.77"	1.22"	0.94"	1.22"	M8	YES
T00CA40220-09102A	CAT40 SF3/8"-4.00"-4.5°	3/8"	4.00"	3/8"	1.77"	1.22"	0.94"	1.22"	M8	YES
T00CA40220-09152A	CAT40 SF3/8"-6.00"-4.5°	3/8"	6.00"	3/8"	2.52"	1.22"	0.94"	1.34"	M8	YES
T00CA40220-12080A	CAT40 SF1/2"-3.15"-4.5°	1/2"	3.15"	1/2"	1.77"	1.42"	0.94"	1.22"	M10	YES
T00CA40220-12102A	CAT40 SF1/2"-4.00"-4.5°	1/2"	4.00"	1/2"	1.77"	1.42"	0.94"	1.22"	M10	YES
T00CA40220-12152A	CAT40 SF1/2"-6.00"-4.5°	1/2"	6.00"	1/2"	2.52"	1.42"	0.94"	1.34"	M10	YES
T00CA40220-16080A	CAT40 SF5/8"-3.15"-4.5°	5/8"	3.15"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA40220-16102A	CAT40 SF5/8"-4.00"-4.5°	5/8"	4.00"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA40220-16152A	CAT40 SF5/8"-6.00"-4.5°	5/8"	6.00"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA40220-19080A	CAT40 SF3/4"-3.15"-4.5°	3/4"	3.15"	3/4"	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA40220-19102A	CAT40 SF3/4"-4.00"-4.5°	3/4"	4.00"	3/4"	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA40220-19152A	CAT40 SF3/4"-6.00"-4.5°	3/4"	6.00"	3/4"	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA40220-22080A	CAT40 SF7/8"-3.15"-4.5°	7/8"	3.15"	7/8"	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA40220-22102A	CAT40 SF7/8"-4.00"-4.5°	7/8"	4.00"	7/8"	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA40220-22152A	CAT40 SF7/8"-6.00"-4.5°	7/8"	6.00"	7/8"	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA40220-25102A	CAT40 SF1"-4.00"-4.5°	1"	4.00"	1"	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA40220-25152A	CAT40 SF1"-6.00"-4.5°	1"	6.00"	1"	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA40220-32102A	CAT40 SF1 1/4"-4.00"-4.5°	1 1/4"	4.00"	1 1/4"	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA40220-32152A	CAT40 SF1 1/4"-6.00"-4.5°	1 1/4"	6.00"	1 1/4"	2.25"	1.85"	1.73"	2.09"	M16	YES

CAT50 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00CA50220-03102A	CAT50 SF1/8"-4.00"-4.5°	1/8"	4.00"	1/8"	2.50"	0.59"	0.39"	0.79"	S10	YES
T00CA50220-03152A	CAT50 SF1/8"-6.00"-4.5°	1/8"	6.00"	1/8"	2.50"	0.59"	0.39"	0.79"	S10	YES
T00CA50220-05102A	CAT50 SF3/16"-4.00"-4.5°	3/16"	4.00"	3/16"	2.50"	0.79"	0.47"	0.87"	S10	YES
T00CA50220-05152A	CAT50 SF3/16"-6.00"-4.5°	3/16"	6.00"	3/16"	2.50"	0.79"	0.47"	0.87"	S10	YES
T00CA50220-06080A	CAT50 SF1/4"-3.15"-4.5°	1/4"	3.15"	1/4"	1.77"	1.14"	0.83"	1.11"	M5	YES
T00CA50220-06102A	CAT50 SF1/4"-4.00"-4.5°	1/4"	4.00"	1/4"	1.77"	1.14"	0.83"	1.11"	M5	YES
T00CA50220-06152A	CAT50 SF1/4"-6.00"-4.5°	1/4"	6.00"	1/4"	2.52"	1.14"	0.83"	1.22"	M5	YES
T00CA50220-06203A	CAT50 SF1/4"-8.00"-4.5°	1/4"	8.00"	1/4"	2.52"	1.14"	0.83"	1.22"	M5	YES
T00CA50220-08080A	CAT50 SF5/16"-3.15"-4.5°	5/16"	3.15"	5/16"	1.77"	0.87"	0.83"	1.11"	M6	YES
T00CA50220-08102A	CAT50 SF5/16"-4.00"-4.5°	5/16"	4.00"	5/16"	1.77"	0.87"	0.83"	1.11"	M6	YES
T00CA50220-08152A	CAT50 SF5/16"-6.00"-4.5°	5/16"	6.00"	5/16"	2.52"	0.87"	0.83"	1.22"	M6	YES
T00CA50220-08203A	CAT50 SF5/16"-8.00"-4.5°	5/16"	8.00"	5/16"	2.52"	0.87"	0.83"	1.22"	M6	YES
T00CA50220-09080A	CAT50 SF3/8"-3.15"-4.5°	3/8"	3.15"	3/8"	1.77"	1.22"	0.94"	1.22"	M8	YES
T00CA50220-09102A	CAT50 SF3/8"-4.00"-4.5°	3/8"	4.00"	3/8"	1.77"	1.22"	0.94"	1.22"	M8	YES
T00CA50220-09152A	CAT50 SF3/8"-6.00"-4.5°	3/8"	6.00"	3/8"	2.52"	1.22"	0.94"	1.34"	M8	YES
T00CA50220-09203A	CAT50 SF3/8"-8.00"-4.5°	3/8"	8.00"	3/8"	2.52"	1.22"	0.94"	1.34"	M8	YES
T00CA50220-12080A	CAT50 SF1/2"-3.15"-4.5°	1/2"	3.15"	1/2"	1.77"	1.42"	0.94"	1.22"	M10	YES
T00CA50220-12102A	CAT50 SF1/2"-4.00"-4.5°	1/2"	4.00"	1/2"	1.77"	1.42"	0.94"	1.22"	M10	YES
T00CA50220-12152A	CAT50 SF1/2"-6.00"-4.5°	1/2"	6.00"	1/2"	2.52"	1.42"	0.94"	1.34"	M10	YES
T00CA50220-12203A	CAT50 SF1/2"-8.00"-4.5°	1/2"	8.00"	1/2"	2.52"	1.42"	0.94"	1.34"	M10	YES
T00CA50220-16080A	CAT50 SF5/8"-3.15"-4.5°	5/8"	3.15"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA50220-16102A	CAT50 SF5/8"-4.00"-4.5°	5/8"	4.00"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA50220-16152A	CAT50 SF5/8"-6.00"-4.5°	5/8"	6.00"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA50220-16203A	CAT50 SF5/8"-8.00"-4.5°	5/8"	8.00"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA50220-19080A	CAT50 SF3/4"-3.15"-4.5°	3/4"	3.15"	3/4"	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA50220-19102A	CAT50 SF3/4"-4.00"-4.5°	3/4"	4.00"	3/4"	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA50220-19152A	CAT50 SF3/4"-6.00"-4.5°	3/4"	6.00"	3/4"	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA50220-19203A	CAT50 SF3/4"-8.00"-4.5°	3/4"	8.00"	3/4"	2.25"	1.61"	1.30"	1.65"	M16	YES

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00CA50220-25102A	CAT50 SF1"-4.00"-4.5°	1"	4.00"	1"	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA50220-25152A	CAT50 SF1"-6.00"-4.5°	1"	6.00"	1"	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA50220-25203A	CAT50 SF1"-8.00"-4.5°	1"	8.00"	1"	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA50220-32102A	CAT50 SF1 1/4"-4.00"-4.5°	1 1/4"	4.00"	1 1/4"	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA50220-32152A	CAT50 SF1 1/4"-6.00"-4.5°	1 1/4"	6.00"	1 1/4"	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA50220-32203A	CAT50 SF1 1/4"-8.00"-4.5°	1 1/4"	8.00"	1 1/4"	2.25"	1.85"	1.73"	2.09"	M16	YES

Note:

1. Cutter Shank Tolerance:

1/8" and 3mm and 4mm: H4

3/16" and 5mm : H5

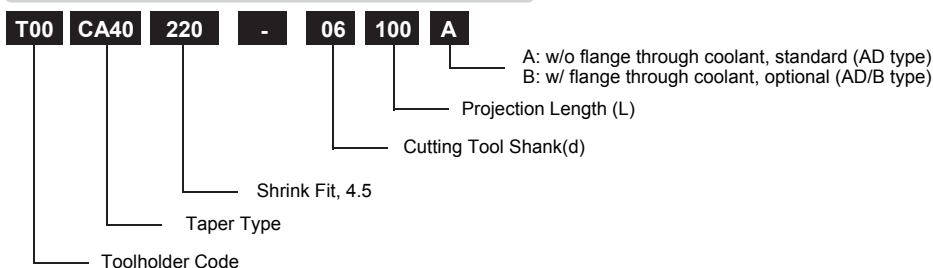
Larger than 1/4" and 6mm : H6

2. For carbide and HSS tooling.



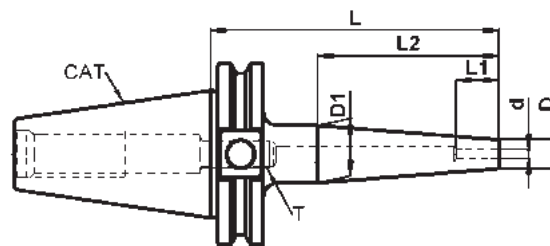
P168~169

Order Number Instruction



Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



CAT40 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter mm	L	d mm	L2	L1	D	D1	T	HSS
T00CA40220B03080A	CAT40 SF03-3.15"-4.5°	3	3.15"	3	1.89"	0.59"	0.39"	0.71"	S10	YES
T00CA40220B03102A	CAT40 SF03-4.00"-4.5°	3	4.00"	3	2.50"	0.59"	0.39"	0.79"	S10	YES
T00CA40220B03152A	CAT40 SF03-6.00"-4.5°	3	6.00"	3	2.50"	0.59"	0.39"	0.79"	S10	YES
T00CA40220B04080A	CAT40 SF04-3.15"-4.5°	4	3.15"	4	1.89"	0.63"	0.47"	0.79"	S10	YES
T00CA40220B04102A	CAT40 SF04-4.00"-4.5°	4	4.00"	4	2.50"	0.63"	0.47"	0.87"	S10	YES
T00CA40220B04152A	CAT40 SF04-6.00"-4.5°	4	6.00"	4	2.50"	0.63"	0.47"	0.87"	S10	YES
T00CA40220B05080A	CAT40 SF05-3.15"-4.5°	5	3.15"	5	1.89"	0.79"	0.47"	0.79"	S10	YES
T00CA40220B05102A	CAT40 SF05-4.00"-4.5°	5	4.00"	5	2.50"	0.79"	0.47"	0.87"	S10	YES
T00CA40220B05152A	CAT40 SF05-6.00"-4.5°	5	6.00"	5	2.50"	0.79"	0.47"	0.87"	S10	YES
T00CA40220B06080A	CAT40 SF06-3.15"-4.5°	6	3.15"	6	1.77"	1.14"	0.83"	1.11"	M5	YES
T00CA40220B06102A	CAT40 SF06-4.00"-4.5°	6	4.00"	6	1.77"	1.14"	0.83"	1.11"	M5	YES
T00CA40220B06152A	CAT40 SF06-6.00"-4.5°	6	6.00"	6	2.52"	1.14"	0.83"	1.22"	M5	YES
T00CA40220B06203A	CAT40 SF06-8.00"-4.5°	6	8.00"	6	2.52"	1.14"	0.83"	1.22"	M5	YES
T00CA40220B08080A	CAT40 SF08-3.15"-4.5°	8	3.15"	8	1.77"	0.87"	0.83"	1.11"	M6	YES
T00CA40220B08102A	CAT40 SF08-4.00"-4.5°	8	4.00"	8	1.77"	0.87"	0.83"	1.11"	M6	YES
T00CA40220B08152A	CAT40 SF08-6.00"-4.5°	8	6.00"	8	2.52"	0.87"	0.83"	1.22"	M5	YES
T00CA40220B08203A	CAT40 SF08-8.00"-4.5°	8	8.00"	8	2.52"	0.87"	0.83"	1.22"	M5	YES
T00CA40220B10080A	CAT40 SF10-3.15"-4.5°	10	3.15"	10	1.77"	1.22"	0.94"	1.22"	M8	YES
T00CA40220B10102A	CAT40 SF10-4.00"-4.5°	10	4.00"	10	1.77"	1.22"	0.94"	1.22"	M8	YES
T00CA40220B10152A	CAT40 SF10-6.00"-4.5°	10	6.00"	10	2.52"	1.22"	0.94"	1.34"	M8	YES
T00CA40220B10203A	CAT40 SF10-8.00"-4.5°	10	8.00"	10	2.52"	1.22"	0.94"	1.34"	M8	YES
T00CA40220B12080A	CAT40 SF12-3.15"-4.5°	12	3.15"	12	1.77"	1.42"	0.94"	1.22"	M10	YES
T00CA40220B12102A	CAT40 SF12-4.00"-4.5°	12	4.00"	12	1.77"	1.42"	0.94"	1.22"	M10	YES
T00CA40220B12152A	CAT40 SF12-6.00"-4.5°	12	6.00"	12	2.52"	1.42"	0.94"	1.34"	M10	YES
T00CA40220B12203A	CAT40 SF12-8.00"-4.5°	12	8.00"	12	2.52"	1.42"	0.94"	1.34"	M10	YES
T00CA40220B16080A	CAT40 SF16-3.15"-4.5°	16	3.15"	16	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA40220B16102A	CAT40 SF16-4.00"-4.5°	16	4.00"	16	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA40220B16152A	CAT40 SF16-6.00"-4.5°	16	6.00"	16	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA40220B16203A	CAT40 SF16-8.00"-4.5°	16	8.00"	16	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA40220B20080A	CAT40 SF20-3.15"-4.5°	20	3.15"	20	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA40220B20102A	CAT40 SF20-4.00"-4.5°	20	4.00"	20	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA40220B20152A	CAT40 SF20-6.00"-4.5°	20	6.00"	20	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA40220B20203A	CAT40 SF20-8.00"-4.5°	20	8.00"	20	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA40220B25102A	CAT40 SF25-4.00"-4.5°	25	4.00"	25	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA40220B25152A	CAT40 SF25-6.00"-4.5°	25	6.00"	25	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA40220B25203A	CAT40 SF25-8.00"-4.5°	25	8.00"	25	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA40220B32102A	CAT40 SF32-4.00"-4.5°	32	4.00"	32	2.25"	1.85"	1.73"	2.09"	M16	YES

CAT50 SHRINK FIT HOLDER 4.5° METRIC

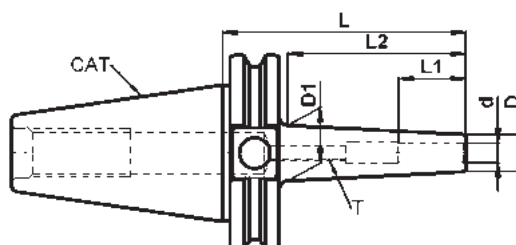
Order Number	Part Name	Cutter mm	L	d mm	L2	L1	D	D1	T	HSS
T00CA50220B03102A	CAT50 SF03-4.00"-4.5°	3	4.00"	3	2.50"	0.59"	0.39"	0.79"	S10	YES
T00CA50220B03152A	CAT50 SF03-6.00"-4.5°	3	6.00"	3	2.50"	0.59"	0.39"	0.79"	S10	YES
T00CA50220B04102A	CAT50 SF04-4.00"-4.5°	4	4.00"	4	2.50"	0.63"	0.39"	0.87"	S10	YES
T00CA50220B04152A	CAT50 SF04-6.00"-4.5°	4	6.00"	4	2.50"	0.63"	0.39"	0.87"	S10	YES
T00CA50220B05102A	CAT50 SF05-4.00"-4.5°	5	4.00"	5	2.50"	0.79"	0.47"	0.87"	S10	YES
T00CA50220B05152A	CAT50 SF05-6.00"-4.5°	5	6.00"	5	2.50"	0.79"	0.47"	0.87"	S10	YES
T00CA50220B06080A	CAT50 SF06-3.15"-4.5°	6	3.15"	6	1.77"	1.14"	0.83"	1.11"	M5	YES
T00CA50220B06102A	CAT50 SF06-4.00"-4.5°	6	4.00"	6	1.77"	1.14"	0.83"	1.11"	M5	YES
T00CA50220B06152A	CAT50 SF06-6.00"-4.5°	6	6.00"	6	2.52"	1.14"	0.83"	1.22"	M5	YES
T00CA50220B06203A	CAT50 SF06-8.00"-4.5°	6	8.00"	6	2.52"	1.14"	0.83"	1.22"	M5	YES
T00CA50220B08080A	CAT50 SF08-3.15"-4.5°	8	3.15"	8	1.77"	0.87"	0.83"	1.11"	M6	YES
T00CA50220B08102A	CAT50 SF08-4.00"-4.5°	8	4.00"	8	1.77"	0.87"	0.83"	1.11"	M6	YES
T00CA50220B08152A	CAT50 SF08-6.00"-4.5°	8	6.00"	8	2.52"	0.87"	0.83"	1.22"	M5	YES
T00CA50220B08203A	CAT50 SF08-8.00"-4.5°	8	8.00"	8	2.52"	0.87"	0.83"	1.22"	M5	YES

SHRINK-FIT HOLDER 3° - 240

3°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



CAT40 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00CA40240-03080A	CAT40 SF1/8"-3.15"-3°	1/8"	3.15"	1/8"	2.20"	0.59"	0.36"	0.59"	S10	NO
T00CA40240-03102A	CAT40 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	3.06"	0.59"	0.36"	0.67"	S10	NO
T00CA40240-03152A	CAT40 SF1/8"-6.00"-3°	1/8"	6.00"	1/8"	5.06"	0.59"	0.36"	0.88"	S10	NO
T00CA40240-05080A	CAT40 SF3/16"-3.15"-3°	3/16"	3.15"	3/16"	2.20"	0.79"	0.43"	0.66"	S10	NO
T00CA40240-05102A	CAT40 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	3.06"	0.79"	0.43"	0.75"	S10	NO
T00CA40240-05152A	CAT40 SF3/16"-6.00"-3°	3/16"	6.00"	3/16"	5.06"	0.79"	0.43"	0.96"	S10	NO
T00CA40240-06080A	CAT40 SF1/4"-3.15"-3°	1/4"	3.15"	1/4"	2.20"	1.14"	0.47"	0.70"	M5	NO
T00CA40240-06102A	CAT40 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	3.06"	1.14"	0.47"	0.79"	M5	NO
T00CA40240-06152A	CAT40 SF1/4"-6.00"-3°	1/4"	6.00"	1/4"	5.06"	1.14"	0.47"	1.00"	M5	NO
T00CA40240-08080A	CAT40 SF5/16"-3.15"-3°	5/16"	3.15"	5/16"	2.20"	1.02"	0.55"	0.78"	M6	NO
T00CA40240-08102A	CAT40 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	3.06"	1.02"	0.55"	0.87"	M6	NO
T00CA40240-08152A	CAT40 SF5/16"-6.00"-3°	5/16"	6.00"	5/16"	5.06"	1.02"	0.55"	1.08"	M6	NO
T00CA40240-09080A	CAT40 SF3/8"-3.15"-3°	3/8"	3.15"	3/8"	2.20"	1.22"	0.63"	0.86"	M8	NO
T00CA40240-09102A	CAT40 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	3.06"	1.22"	0.63"	0.95"	M8	NO
T00CA40240-09152A	CAT40 SF3/8"-6.00"-3°	3/8"	6.00"	3/8"	5.06"	1.22"	0.63"	1.16"	M8	NO
T00CA40240-12080A	CAT40 SF1/2"-3.15"-3°	1/2"	3.15"	1/2"	2.20"	1.42"	0.71"	0.94"	M10	NO
T00CA40240-12102A	CAT40 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	3.06"	1.42"	0.71"	1.03"	M10	NO
T00CA40240-12152A	CAT40 SF1/2"-6.00"-3°	1/2"	6.00"	1/2"	5.06"	1.42"	0.71"	1.24"	M10	NO
T00CA40240-16080A	CAT40 SF5/8"-3.15"-3°	5/8"	3.15"	5/8"	2.20"	1.54"	0.87"	1.10"	M12	NO
T00CA40240-16102A	CAT40 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	3.06"	1.54"	0.87"	1.19"	M12	NO
T00CA40240-16152A	CAT40 SF5/8"-6.00"-3°	5/8"	6.00"	5/8"	5.06"	1.54"	0.87"	1.40"	M12	NO
T00CA40240-19080A	CAT40 SF3/4"-3.15"-3°	3/4"	3.15"	3/4"	2.20"	1.61"	1.06"	1.29"	M16	NO
T00CA40240-19102A	CAT40 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	3.06"	1.61"	1.06"	1.38"	M16	NO
T00CA40240-19152A	CAT40 SF3/4"-6.00"-3°	3/4"	6.00"	3/4"	5.06"	1.61"	1.06"	1.59"	M16	NO
T00CA40240-25102A	CAT40 SF1"-4.00"-3°	1"	4.00"	1"	3.06"	1.85"	1.34"	1.66"	M16	NO
T00CA40240-25152A	CAT40 SF1"-6.00"-3°	1"	6.00"	1"	5.06"	1.85"	1.34"	1.87"	M16	NO

CAT50 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00CA50240-03102A	CAT50 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	3.06"	0.59"	0.36"	0.67"	S10	NO
T00CA50240-03152A	CAT50 SF1/8"-6.00"-3°	1/8"	6.00"	1/8"	5.06"	0.59"	0.36"	0.88"	S10	NO
T00CA50240-05102A	CAT50 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	3.06"	0.79"	0.43"	0.75"	S10	NO
T00CA50240-05152A	CAT50 SF3/16"-6.00"-3°	3/16"	6.00"	3/16"	5.06"	0.79"	0.43"	0.96"	S10	NO
T00CA50240-06080A	CAT50 SF1/4"-3.15"-3°	1/4"	3.15"	1/4"	2.20"	1.14"	0.47"	0.70"	M5	NO
T00CA50240-06102A	CAT50 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	3.06"	1.14"	0.47"	0.79"	M5	NO
T00CA50240-06152A	CAT50 SF1/4"-6.00"-3°	1/4"	6.00"	1/4"	5.06"	1.14"	0.47"	1.00"	M5	NO
T00CA50240-06203A	CAT50 SF1/4"-8.00"-3°	1/4"	8.00"	1/4"	7.06"	1.14"	0.47"	1.21"	M5	NO
T00CA50240-08080A	CAT50 SF5/16"-3.15"-3°	5/16"	3.15"	5/16"	2.20"	1.02"	0.55"	0.78"	M6	NO
T00CA50240-08102A	CAT50 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	3.06"	1.02"	0.55"	0.87"	M6	NO
T00CA50240-08152A	CAT50 SF5/16"-6.00"-3°	5/16"	6.00"	5/16"	5.06"	1.02"	0.55"	1.08"	M6	NO
T00CA50240-08203A	CAT50 SF5/16"-8.00"-3°	5/16"	8.00"	5/16"	7.06"	1.02"	0.55"	1.29"	M6	NO
T00CA50240-09080A	CAT50 SF3/8"-3.15"-3°	3/8"	3.15"	3/8"	2.20"	1.22"	0.63"	0.86"	M8	NO
T00CA50240-09102A	CAT50 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	3.06"	1.22"	0.63"	0.95"	M8	NO
T00CA50240-09152A	CAT50 SF3/8"-6.00"-3°	3/8"	6.00"	3/8"	5.06"	1.22"	0.63"	1.16"	M8	NO
T00CA50240-09203A	CAT50 SF3/8"-8.00"-3°	3/8"	8.00"	3/8"	7.06"	1.22"	0.63"	1.37"	M8	NO
T00CA50240-12080A	CAT50 SF1/2"-3.15"-3°	1/2"	3.15"	1/2"	2.20"	1.42"	0.71"	0.94"	M10	NO
T00CA50240-12102A	CAT50 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	3.06"	1.42"	0.71"	1.03"	M10	NO
T00CA50240-12152A	CAT50 SF1/2"-6.00"-3°	1/2"	6.00"	1/2"	5.06"	1.42"	0.71"	1.24"	M10	NO
T00CA50240-12203A	CAT50 SF1/2"-8.00"-3°	1/2"	8.00"	1/2"	7.06"	1.42"	0.71"	1.45"	M10	NO
T00CA50240-16080A	CAT50 SF5/8"-3.15"-3°	5/8"	3.15"	5/8"	2.20"	1.54"	0.87"	1.10"	M12	NO

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00CA50240-16102A	CAT50 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	3.06"	1.54"	0.87"	1.19"	M12	NO
T00CA50240-16152A	CAT50 SF5/8"-6.00"-3°	5/8"	6.00"	5/8"	5.06"	1.54"	0.87"	1.40"	M12	NO
T00CA50240-16203A	CAT50 SF5/8"-8.00"-3°	5/8"	8.00"	5/8"	7.06"	1.54"	0.87"	1.61"	M12	NO
T00CA50240-19080A	CAT50 SF3/4"-3.15"-3°	3/4"	3.15"	3/4"	2.20"	1.61"	1.06"	1.29"	M16	NO
T00CA50240-19102A	CAT50 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	3.06"	1.61"	1.06"	1.38"	M16	NO
T00CA50240-19152A	CAT50 SF3/4"-6.00"-3°	3/4"	6.00"	3/4"	5.06"	1.61"	1.06"	1.59"	M16	NO
T00CA50240-19203A	CAT50 SF3/4"-8.00"-3°	3/4"	8.00"	3/4"	7.06"	1.61"	1.06"	1.80"	M16	NO
T00CA50240-25102A	CAT50 SF1"-4.00"-3°	1"	4.00"	1"	3.06"	1.85"	1.34"	1.66"	M16	NO
T00CA50240-25152A	CAT50 SF1"-6.00"-3°	1"	6.00"	1"	5.06"	1.85"	1.34"	1.87"	M16	NO
T00CA50240-25203A	CAT50 SF1"-8.00"-3°	1"	8.00"	1"	7.06"	1.85"	1.34"	2.08"	M16	NO

Note:

1. Cutter Shank Tolerance:

1/8" and 3mm and 4mm: H4

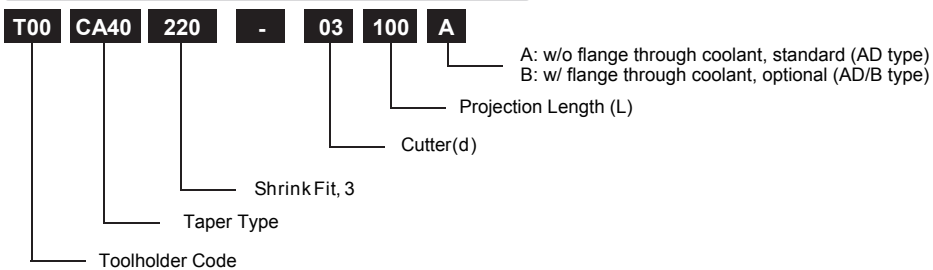
3/16" and 5mm : H5

Larger than 1/4" and 6mm : H6

2. For carbide tooling.



Order Number Instruction

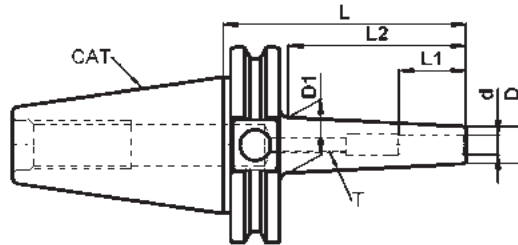


SHRINK-FIT HOLDER 3° - 240

3°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



CAT40 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter mm	L	d mm	L2	L1	D	D1	T	HSS
T00CA40240B03080A	CAT40 SF03-3.15"-3°	3	3.15"	3	2.20"	0.59"	0.36"	0.59"	S10	NO
T00CA40240B03102A	CAT40 SF03-4.00"-3°	3	4.00"	3	3.06"	0.59"	0.36"	0.67"	S10	NO
T00CA40240B03152A	CAT40 SF03-6.00"-3°	3	6.00"	3	5.06"	0.59"	0.36"	0.88"	S10	NO
T00CA40240B05080A	CAT40 SF05-3.15"-3°	5	3.15"	5	2.20"	0.79"	0.43"	0.66"	S10	NO
T00CA40240B05102A	CAT40 SF05-4.00"-3°	5	4.00"	5	3.06"	0.79"	0.43"	0.75"	S10	NO
T00CA40240B05152A	CAT40 SF05-6.00"-3°	5	6.00"	5	5.06"	0.79"	0.43"	0.96"	S10	NO
T00CA40240B06080A	CAT40 SF06-3.15"-3°	6	3.15"	6	2.20"	1.14"	0.47"	0.70"	M5	NO
T00CA40240B06102A	CAT40 SF06-4.00"-3°	6	4.00"	6	3.06"	1.14"	0.47"	0.79"	M5	NO
T00CA40240B06152A	CAT40 SF06-6.00"-3°	6	6.00"	6	5.06"	1.14"	0.47"	1.00"	M5	NO
T00CA40240B08080A	CAT40 SF08-3.15"-3°	8	3.15"	8	2.20"	1.02"	0.55"	0.78"	M6	NO
T00CA40240B08102A	CAT40 SF08-4.00"-3°	8	4.00"	8	3.06"	1.02"	0.55"	0.87"	M6	NO
T00CA40240B08152A	CAT40 SF08-6.00"-3°	8	6.00"	8	5.06"	1.02"	0.55"	1.08"	M6	NO
T00CA40240B10080A	CAT40 SF10-3.15"-3°	10	3.15"	10	2.20"	1.22"	0.63"	0.86"	M8	NO
T00CA40240B10102A	CAT40 SF10-4.00"-3°	10	4.00"	10	3.06"	1.22"	0.63"	0.95"	M8	NO
T00CA40240B10152A	CAT40 SF10-6.00"-3°	10	6.00"	10	5.06"	1.22"	0.63"	1.16"	M8	NO
T00CA40240B12080A	CAT40 SF12-3.15"-3°	12	3.15"	12	2.20"	1.42"	0.71"	0.94"	M10	NO
T00CA40240B12102A	CAT40 SF12-4.00"-3°	12	4.00"	12	3.06"	1.42"	0.71"	1.03"	M10	NO
T00CA40240B12152A	CAT40 SF12-6.00"-3°	12	6.00"	12	5.06"	1.42"	0.71"	1.24"	M10	NO
T00CA40240B16080A	CAT40 SF16-3.15"-3°	16	3.15"	16	2.20"	1.54"	0.87"	1.10"	M12	NO
T00CA40240B16102A	CAT40 SF16-4.00"-3°	16	4.00"	16	3.06"	1.54"	0.87"	1.19"	M12	NO
T00CA40240B16152A	CAT40 SF16-6.00"-3°	16	6.00"	16	5.06"	1.54"	0.87"	1.40"	M12	NO
T00CA40240B20080A	CAT40 SF20-3.15"-3°	20	3.15"	20	2.20"	1.61"	1.06"	1.29"	M16	NO
T00CA40240B20102A	CAT40 SF20-4.00"-3°	20	4.00"	20	3.06"	1.61"	1.06"	1.38"	M16	NO
T00CA40240B20152A	CAT40 SF20-6.00"-3°	20	6.00"	20	5.06"	1.61"	1.06"	1.59"	M16	NO
T00CA40240B25102A	CAT40 SF25-4.00"-3°	25	4.00"	25	3.06"	1.85"	1.34"	1.66"	M16	NO
T00CA40240B25152A	CAT40 SF25-6.00"-3°	25	6.00"	25	5.06"	1.85"	1.34"	1.87"	M16	NO

CAT50 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter mm	L	d mm	L2	L1	D	D1	T	HSS
T00CA50240B03102A	CAT50 SF03-4.00"-3°	3	4.00"	3	3.06"	0.59"	0.36"	0.67"	S10	NO
T00CA50240B03152A	CAT50 SF03-6.00"-3°	3	6.00"	3	5.06"	0.59"	0.36"	0.88"	S10	NO
T00CA50240B05102A	CAT50 SF05-4.00"-3°	5	4.00"	5	3.06"	0.79"	0.43"	0.75"	S10	NO
T00CA50240B05152A	CAT50 SF05-6.00"-3°	5	6.00"	5	5.06"	0.79"	0.43"	0.96"	S10	NO
T00CA50240B06080A	CAT50 SF06-3.15"-3°	6	3.15"	6	2.20"	1.14"	0.47"	0.70"	M5	NO
T00CA50240B06102A	CAT50 SF06-4.00"-3°	6	4.00"	6	3.06"	1.14"	0.47"	0.79"	M5	NO
T00CA50240B06152A	CAT50 SF06-6.00"-3°	6	6.00"	6	5.06"	1.14"	0.47"	1.00"	M5	NO
T00CA50240B06203A	CAT50 SF06-8.00"-3°	6	8.00"	6	7.06"	1.14"	0.47"	1.21"	M5	NO
T00CA50240B08080A	CAT50 SF08-3.15"-3°	8	3.15"	8	2.20"	1.02"	0.55"	0.78"	M6	NO
T00CA50240B08102A	CAT50 SF08-4.00"-3°	8	4.00"	8	3.06"	1.02"	0.55"	0.87"	M6	NO
T00CA50240B08152A	CAT50 SF08-6.00"-3°	8	6.00"	8	5.06"	1.02"	0.55"	1.08"	M6	NO
T00CA50240B08203A	CAT50 SF08-8.00"-3°	8	8.00"	8	7.06"	1.02"	0.55"	1.29"	M6	NO
T00CA50240B10080A	CAT50 SF10-3.15"-3°	10	3.15"	10	2.20"	1.22"	0.63"	0.86"	M8	NO
T00CA50240B10102A	CAT50 SF10-4.00"-3°	10	4.00"	10	3.06"	1.22"	0.63"	0.95"	M8	NO

Order Number	Part Name	Cutter mm	L	d mm	L2	L1	D	D1	T	HSS
T00CA50240B10152A	CAT50 SF10-6.00"-3°	10	6.00"	10	5.06"	1.22"	0.63"	1.16"	M8	NO
T00CA50240B10203A	CAT50 SF10-8.00"-3°	10	8.00"	10	7.06"	1.22"	0.63"	1.37"	M8	NO
T00CA50240B12080A	CAT50 SF12-3.15"-3°	12	3.15"	12	2.20"	1.42"	0.71"	0.94"	M10	NO
T00CA50240B12102A	CAT50 SF12-4.00"-3°	12	4.00"	12	3.06"	1.42"	0.71"	1.03"	M10	NO
T00CA50240B12152A	CAT50 SF12-6.00"-3°	12	6.00"	12	5.06"	1.42"	0.71"	1.24"	M10	NO
T00CA50240B12203A	CAT50 SF12-8.00"-3°	12	8.00"	12	7.06"	1.42"	0.71"	1.45"	M10	NO
T00CA50240B16080A	CAT50 SF16-3.15"-3°	16	3.15"	16	2.20"	1.54"	0.87"	1.10"	M12	NO
T00CA50240B16102A	CAT50 SF16-4.00"-3°	16	4.00"	16	3.06"	1.54"	0.87"	1.19"	M12	NO
T00CA50240B16152A	CAT50 SF16-6.00"-3°	16	6.00"	16	5.06"	1.54"	0.87"	1.40"	M12	NO
T00CA50240B16203A	CAT50 SF16-8.00"-3°	16	8.00"	16	7.06"	1.54"	0.87"	1.61"	M12	NO
T00CA50240B20080A	CAT50 SF20-3.15"-3°	20	3.15"	20	2.20"	1.61"	1.06"	1.29"	M16	NO
T00CA50240B20102A	CAT50 SF20-4.00"-3°	20	4.00"	20	3.06"	1.61"	1.06"	1.38"	M16	NO
T00CA50240B20152A	CAT50 SF20-6.00"-3°	20	6.00"	20	5.06"	1.61"	1.06"	1.59"	M16	NO
T00CA50240B20203A	CAT50 SF20-8.00"-3°	20	8.00"	20	7.06"	1.61"	1.06"	1.80"	M16	NO
T00CA50240B25102A	CAT50 SF25-4.00"-3°	25	4.00"	25	3.06"	1.85"	1.34"	1.66"	M16	NO
T00CA50240B25152A	CAT50 SF25-6.00"-3°	25	6.00"	25	5.06"	1.85"	1.34"	1.87"	M16	NO
T00CA50240B25203A	CAT50 SF25-8.00"-3°	25	8.00"	25	7.06"	1.85"	1.34"	2.08"	M16	NO

Note:

1. Cutter Shank Tolerance:

1/8" and 3mm and 4mm: H4

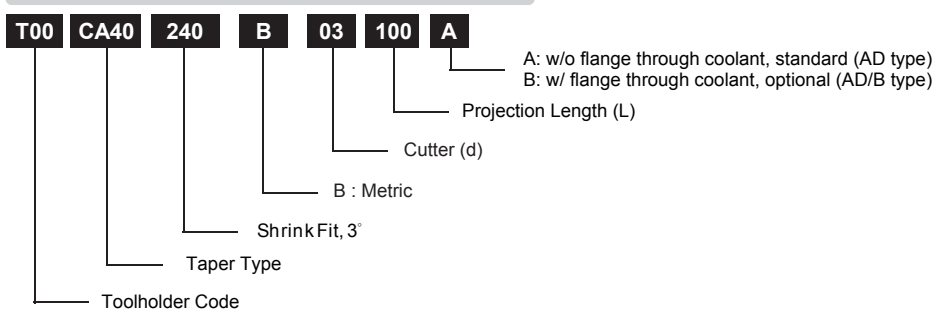
3/16" and 5mm : H5

Larger than 1/4" and 6mm : H6

2. For carbider tooling.



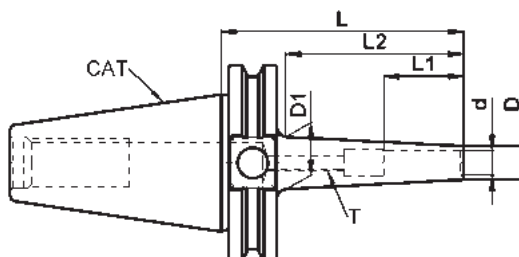
Order Number Instruction



SHRINK-FIT HOLDER 3° SLIM - 250

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000rpm
Option to G2.5 25000rpm



CAT40 SHRINK FIT HOLDER 3° SLIM INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00CA40250-03080A	CAT40 SF1/8"-3.15"-3° Slim	1/8"	3.15"	1/8"	2.20"	0.59"	0.24"	0.47"	S10	NO
T00CA40250-03102A	CAT40 SF1/8"-4.00"-3° Slim	1/8"	4.00"	1/8"	3.06"	0.59"	0.24"	0.56"	S10	NO
T00CA40250-03152A	CAT40 SF1/8"-6.00"-3° Slim	1/8"	6.00"	1/8"	5.06"	0.59"	0.24"	0.77"	S10	NO
T00CA40250-05080A	CAT40 SF3/16"-3.15"-3° Slim	3/16"	3.15"	3/16"	2.20"	0.79"	0.31"	0.55"	S10	NO
T00CA40250-05102A	CAT40 SF3/16"-4.00"-3° Slim	3/16"	4.00"	3/16"	3.06"	0.79"	0.31"	0.64"	S10	NO
T00CA40250-05152A	CAT40 SF3/16"-6.00"-3° Slim	3/16"	6.00"	3/16"	5.06"	0.79"	0.31"	0.84"	S10	NO
T00CA40250-06080A	CAT40 SF1/4"-3.15"-3° Slim	1/4"	3.15"	1/4"	2.20"	0.87"	0.35"	0.59"	M5	NO
T00CA40250-06102A	CAT40 SF1/4"-4.00"-3° Slim	1/4"	4.00"	1/4"	3.06"	0.87"	0.35"	0.67"	M5	NO
T00CA40250-06152A	CAT40 SF1/4"-6.00"-3° Slim	1/4"	6.00"	1/4"	5.06"	0.87"	0.35"	0.88"	M5	NO
T00CA40250-08080A	CAT40 SF5/16"-3.15"-3° Slim	5/16"	3.15"	5/16"	2.20"	1.02"	0.43"	0.66"	M6	NO
T00CA40250-08102A	CAT40 SF5/16"-4.00"-3° Slim	5/16"	4.00"	5/16"	3.06"	1.02"	0.43"	0.75"	M6	NO
T00CA40250-08152A	CAT40 SF5/16"-6.00"-3° Slim	5/16"	6.00"	5/16"	5.06"	1.02"	0.43"	0.96"	M6	NO
T00CA40250-09080A	CAT40 SF3/8"-3.15"-3° Slim	3/8"	3.15"	3/8"	2.20"	1.22"	0.51"	0.74"	M8	NO
T00CA40250-09102A	CAT40 SF3/8"-4.00"-3° Slim	3/8"	4.00"	3/8"	3.06"	1.22"	0.51"	0.83"	M8	NO
T00CA40250-09152A	CAT40 SF3/8"-6.00"-3° Slim	3/8"	6.00"	3/8"	5.06"	1.22"	0.51"	1.04"	M8	NO
T00CA40250-12080A	CAT40 SF1/2"-3.15"-3° Slim	1/2"	3.15"	1/2"	2.20"	1.42"	0.59"	0.82"	M10	NO
T00CA40250-12102A	CAT40 SF1/2"-4.00"-3° Slim	1/2"	4.00"	1/2"	3.06"	1.42"	0.59"	0.91"	M10	NO
T00CA40250-12152A	CAT40 SF1/2"-6.00"-3° Slim	1/2"	6.00"	1/2"	5.06"	1.42"	0.59"	1.12"	M10	NO

CAT50 SHRINK FIT HOLDER 3° SLIM INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00CA50250-06102A	CAT50 SF1/4"-4.00"-3° Slim	1/4"	4.00"	1/4"	3.06"	0.87"	0.35"	0.67"	M5	NO
T00CA50250-06152A	CAT50 SF1/4"-6.00"-3° Slim	1/4"	6.00"	1/4"	5.06"	0.87"	0.35"	0.88"	M5	NO
T00CA50250-08102A	CAT50 SF5/16"-4.00"-3° Slim	5/16"	4.00"	5/16"	3.06"	1.02"	0.43"	0.75"	M6	NO
T00CA50250-08152A	CAT50 SF5/16"-6.00"-3° Slim	5/16"	6.00"	5/16"	5.06"	1.02"	0.43"	0.96"	M6	NO
T00CA50250-09102A	CAT50 SF3/8"-4.00"-3° Slim	3/8"	4.00"	3/8"	3.06"	1.22"	0.51"	0.83"	M8	NO
T00CA50250-09152A	CAT50 SF3/8"-6.00"-3° Slim	3/8"	6.00"	3/8"	5.06"	1.22"	0.51"	1.04"	M8	NO
T00CA50250-12102A	CAT50 SF1/2"-4.00"-3° Slim	1/2"	4.00"	1/2"	3.06"	1.42"	0.59"	0.91"	M10	NO
T00CA50250-12152A	CAT50 SF1/2"-6.00"-3° Slim	1/2"	6.00"	1/2"	5.06"	1.42"	0.59"	1.12"	M10	NO

Note:

1. Cutter Shank Tolerance:

1/8" and 3mm and 4mm: H4

3/16" and 5mm : H5

Larger than 1/4" and 6mm : H6

2. For carbide tooling.



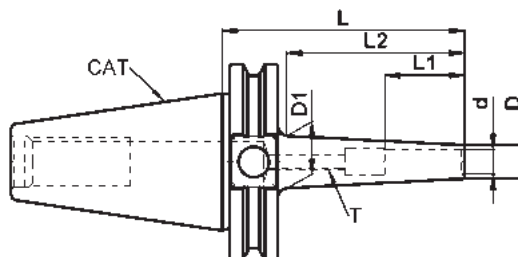
P168~169

Order Number Instruction

T00	CA40	250	-	03	100	A
Toolholder Code	Taper Type	ShrinkFit, 3° Slim		Cutter shank (d)	Projection Length (L)	A: w/o flange through coolant, standard (AD type) B: w/ flange through coolant, optional (AD/B type)

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



CAT40 SHRINK FIT HOLDER 3° SLIM METRIC

Order Number	Part Name	Cutter mm	L	d mm	L2	L1	D	D1	T	HSS
T00CA40250B03080A	CAT40 SF03-3.15"-3°Slim	3	3.15"	3	2.20"	0.59"	0.24"	0.47"	S10	NO
T00CA40250B03102A	CAT40 SF03-4.00"-3°Slim	3	4.00"	3	3.06"	0.59"	0.24"	0.56"	S10	NO
T00CA40250B03152A	CAT40 SF03-6.00"-3°Slim	3	6.00"	3	5.06"	0.59"	0.24"	0.77"	S10	NO
T00CA40250B05080A	CAT40 SF05-3.15"-3°Slim	5	3.15"	5	2.20"	0.79"	0.31"	0.55"	S10	NO
T00CA40250B05102A	CAT40 SF05-4.00"-3°Slim	5	4.00"	5	3.06"	0.79"	0.31"	0.64"	S10	NO
T00CA40250B05152A	CAT40 SF05-6.00"-3°Slim	5	6.00"	5	5.06"	0.79"	0.31"	0.84"	S10	NO
T00CA40250B06080A	CAT40 SF06-3.15"-3°Slim	6	3.15"	6	2.20"	0.87"	0.35"	0.59"	M5	NO
T00CA40250B06102A	CAT40 SF06-4.00"-3°Slim	6	4.00"	6	3.06"	0.87"	0.35"	0.67"	M5	NO
T00CA40250B06152A	CAT40 SF06-6.00"-3°Slim	6	6.00"	6	5.06"	0.87"	0.35"	0.88"	M5	NO
T00CA40250B08080A	CAT40 SF08-3.15"-3°Slim	8	3.15"	8	2.20"	1.02"	0.43"	0.66"	M6	NO
T00CA40250B08102A	CAT40 SF08-4.00"-3°Slim	8	4.00"	8	3.06"	1.02"	0.43"	0.75"	M6	NO
T00CA40250B08152A	CAT40 SF08-6.00"-3°Slim	8	6.00"	8	5.06"	1.02"	0.43"	0.96"	M6	NO
T00CA40250B10080A	CAT40 SF10-3.15"-3°Slim	10	3.15"	10	2.20"	1.22"	0.51"	0.74"	M8	NO
T00CA40250B10102A	CAT40 SF10-4.00"-3°Slim	10	4.00"	10	3.06"	1.22"	0.51"	0.83"	M8	NO
T00CA40250B10152A	CAT40 SF10-6.00"-3°Slim	10	6.00"	10	5.06"	1.22"	0.51"	1.04"	M8	NO
T00CA40250B12080A	CAT40 SF12-3.15"-3°Slim	12	3.15"	12	2.20"	1.42"	0.59"	0.82"	M10	NO
T00CA40250B12102A	CAT40 SF12-4.00"-3°Slim	12	4.00"	12	3.06"	1.42"	0.59"	0.91"	M10	NO
T00CA40250B12152A	CAT40 SF12-6.00"-3°Slim	12	6.00"	12	5.06"	1.42"	0.59"	1.12"	M10	NO

CAT50 SHRINK FIT HOLDER 3° SLIM METRIC

Order Number	Part Name	Cutter mm	L	d mm	L2	L1	D	D1	T	HSS
T00CA50250B06102A	CAT50 SF06-4.00"-3°Silm	6	4.00"	6	3.06"	0.87"	0.35"	0.67"	M5	NO
T00CA50250B06152A	CAT50 SF06-6.00"-3°Silm	6	6.00"	6	5.06"	0.87"	0.35"	0.88"	M5	NO
T00CA50250B08102A	CAT50 SF08-4.00"-3°Silm	8	4.00"	8	3.06"	1.02"	0.43"	0.75"	M6	NO
T00CA50250B08152A	CAT50 SF08-6.00"-3°Silm	8	6.00"	8	5.06"	1.02"	0.43"	0.96"	M6	NO
T00CA50250B10102A	CAT50 SF10-4.00"-3°Silm	10	4.00"	10	3.06"	1.22"	0.51"	0.83"	M8	NO
T00CA50250B10152A	CAT50 SF10-6.00"-3°Silm	10	6.00"	10	5.06"	1.22"	0.51"	1.04"	M8	NO
T00CA50250B12102A	CAT50 SF12-4.00"-3°Silm	12	4.00"	12	3.06"	1.42"	0.59"	0.91"	M10	NO
T00CA50250B12152A	CAT50 SF12-6.00"-3°Silm	12	6.00"	12	5.06"	1.42"	0.59"	1.12"	M10	NO

Note:

1. Cutter Shank Tolerance:

1/8" and 3mm and 4mm: H4

3/16" and 5mm : H5

Larger than 1/4" and 6mm : H6

2. For carbide tooling.

Order Number Instruction

T00	CA40	250	B	03	100	A
Toolholder Code	Taper Type	ShrinkFit, 3° Slim	B : Metric	Cutter shanks (d)	Projection Length (L)	A: w/o flange through coolant, standard (AD type) B: w/ flange through coolant, optional (AD/B type)

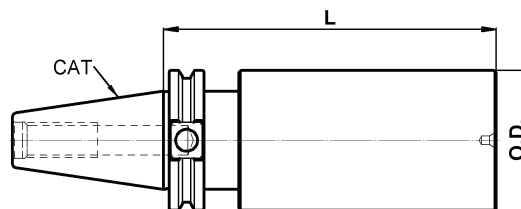


P168~169

BLANK ARBOR - 310

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58±2 on taper
- Hardness: HRC26~40 on Shank



BLANK ARBOR INCH

Order Number	Part Name	D	L
T00CA40310-63152A	CAT40 Blank 2.50"-6.00"	2.50"	6.00"
T00CA40310-63203A	CAT40 Blank 2.50"-8.00"	2.50"	8.00"
T00CA50310-99279A	CAT50 Blank 3.88"-11.00"	3.88"	11.00"



P168~169

Order Number Instruction

T00	CA40	310	-	03	100	A
Toolholder Code	Taper Type	Blank Arbor		OD Dimension(d)	Projection Length (L)	A: w/o flange through coolant, standard (AD type) B: w/ flange through coolant, optional (AD/B type)

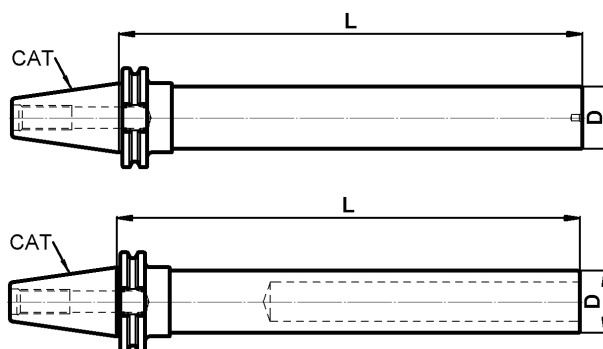
STANDARD TOOL HOLDER

TEST ARBOR - G000 HOLLOW / GS00 SOLID

HOLLOW / SOLID

Quality

- Taper Angle Tolerance: AT1
- Case Hardness: HRC 58±2
- Runout: 0.002mm (0.00008")
- Cylindricity: 0.003mm (0.00012")



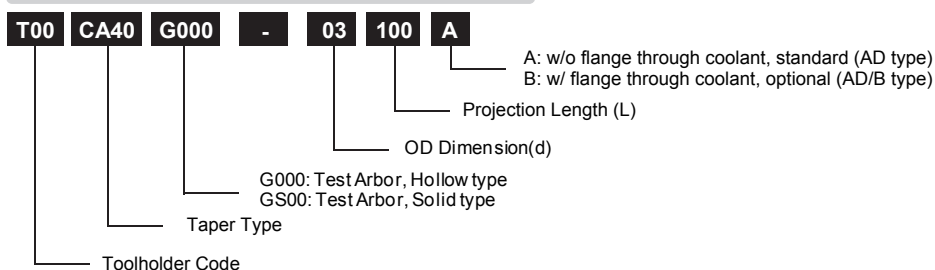
CAT TEST ARBOR INCH

Order Number	Part Name	OD	L
T00CA40G000-40300	CAT40 G000 1.57"-11.8"	1.57"	11.8"
T00CA40G000-40320	CAT40 G000 1.57"-12.6"	1.57"	12.6"
T00CA40GS00-40320	CAT40 GS00 1.57"-12.6"	1.57"	12.6"
T00CA50G000-50300	CAT50 G000 1.97"-11.8"	1.97"	11.8"
T00CA50GS00-50320	CAT50 GS00 1.97"-12.6"	1.97"	12.6"



P168~169

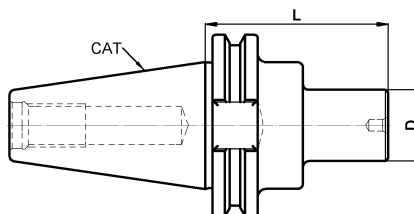
Order Number Instruction



GAP GAUGE - M000

Quality

- Taper Angle Tolerance: AT1
- Case Hardness: HRC 58±2
- Runout: 0.002mm (0.00008")
- Cylindricity: 0.003mm (0.00012")



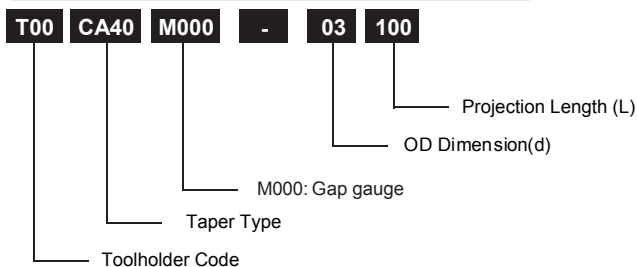
CAT GAP GAUGE INCH

Order Number	Part Name	D	L
T00CA40M000-25065	CAT40 M000 0.984"-2.56"	0.984"	2.56"
T00CA50M000-60102	CAT50 M000 2.360"-4.00"	2.360"	4.00"



P168~169

Order Number Instruction





EXTREME TOOL HOLDER

EXTREME productivity

EXTREME precision

EXTREME surface finish quality

EXTREME tool life

EXTREME profit, and much more...

E SYSTEM TOOL HOLDER

M22 - ER Collet Chuck - **Mini Nut**

022 - ER Collet Chuck

032 - End Mill Holder **Coolant Slot**

042 - End Mill Holder

072 - Morse Taper Holder

122 - Shell Milling Holder

132 - Shell Milling Holder **Coolant Slot**

142 - Drill Chuck Holder

142 - Drill Chuck Arbor

202 - Screw-In Holder

212 - Slim Collet Chuck

222 - Shrink-Fit Holder **4.5°**

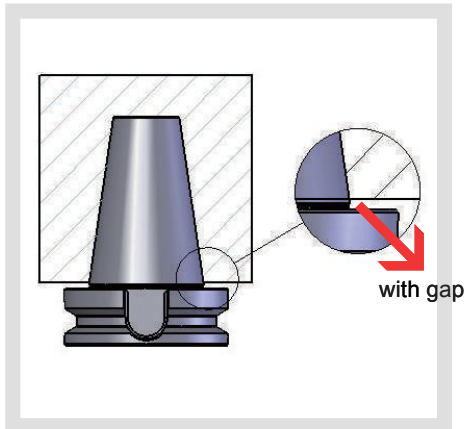
242 - Shrink-Fit Holder **3°**

252 - Shrink-Fit Holder **3° Slim**

312 - Blank Arbor

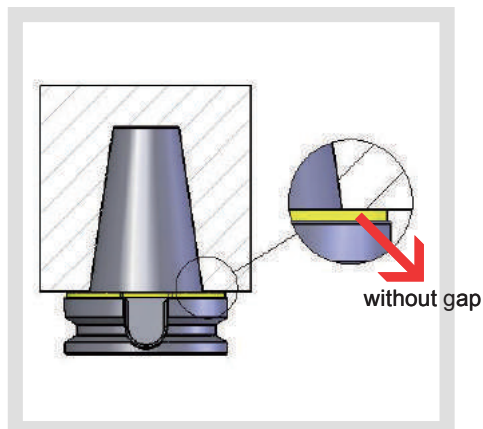
G002 - Test Arbor

EXTREME V.S. STANDARD



STANDARD TOOL HOLDERS

1. Gap exists between toolholder and spindle.
2. With only taper face contact, machining stability, dimension precision and even spindle life will be affected.



E SYSTEM TOOL HOLDERS

Patent No :

US:7341411

DE:102006027247

1. Gap between toolholder and spindle is eliminated by **E SYSTEM** design.
2. Higher stability, higher precision, higher tool life and extended spindle life.
3. **E SYSTEM** toolholder is suitable to all existing spindle types, providing a maximum range of applications.

Benefits and Advantages

- Stable and enlarged dual face contact area directly and effectively improves tooling system precision. High speed machining with extremely accuracy and surface finish can be obtained.
- PrimeTool **E SYSTEM** toolholder can be used for all existing spindle. It is not necessary to invest in costly, custom-made spindles to obtain the result of dual-face contact.
- With enhanced rigidity from PrimeTool **E SYSTEM** toolholder, tool runout and balance is strictly controlled. The cutting tool life is extended. This means significantly lower costs and much higher productivity!
- With the extra contact surface between toolholder and spindle, PrimeTool **E SYSTEM** toolholder considerably reduces friction wear on the spindle taper face and thus extends the spindle life.
- By attenuating impact and vibration from machining, PrimeTool **E SYSTEM** toolholder dramatically reduces the noise generated. The machine and work piece will also stay in a more stable operation condition.
- At high speed machining, the mouth of the spindle often expands slightly due to centripetal force. This problem can be resolved by using PrimeTool **E SYSTEM** toolholder, as the extra contact face will prevent the tool holder from being sucked into the spindle.

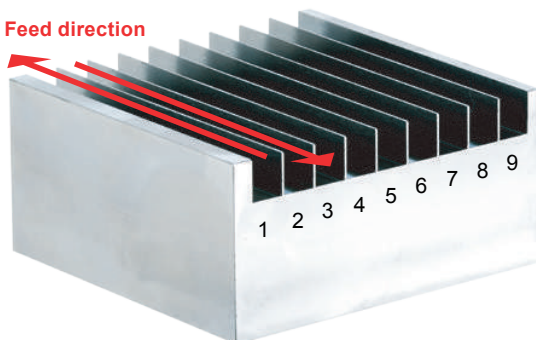
GROOVE MACHINING TEST

Compare the machining result between standard toolholder and **E SYSTEM** toolholder with same cutting condition.

Taper No	Model	AT Tolerance	3D Runout		Dynamic Balance	Weight (kg)
			Standard	EXTREME		
BT40	ER32-70	AT3	6 μ	5 μ	1.1g-mm , G2.5 , 30000 rpm	1.48

Workpiece

Feed direction



Workpiece Dimension :

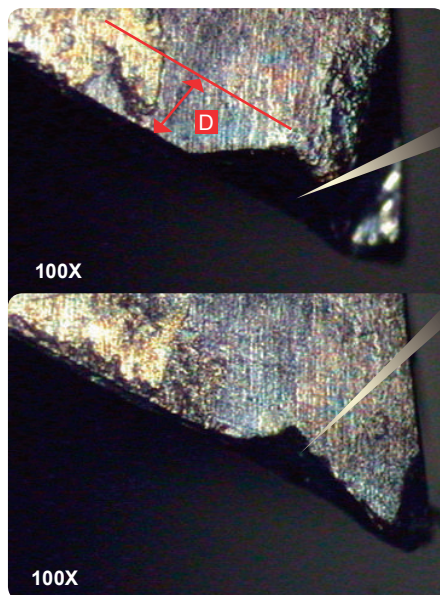
1. Slot width : 10mm (0.394")
2. Rib thickness : 0.6mm (0.0236")
3. Rib height : 12mm (0.473")

Machining Condition :

1. Speed : 10000 rpm
2. Feed : 1200mm/min (47.24 inch/min)
3. VC : 314m/min (1030 feet/min)
4. Depth of cut : 0.2mm (0.0788")
5. Cut length : 54m (1143 feet)
6. Cut time : 55min

Workpiece Material :

1. AISI 1049 steel
- JIS S50C
2. Hardness : HRB90



Cutter wear on standard toolholder :

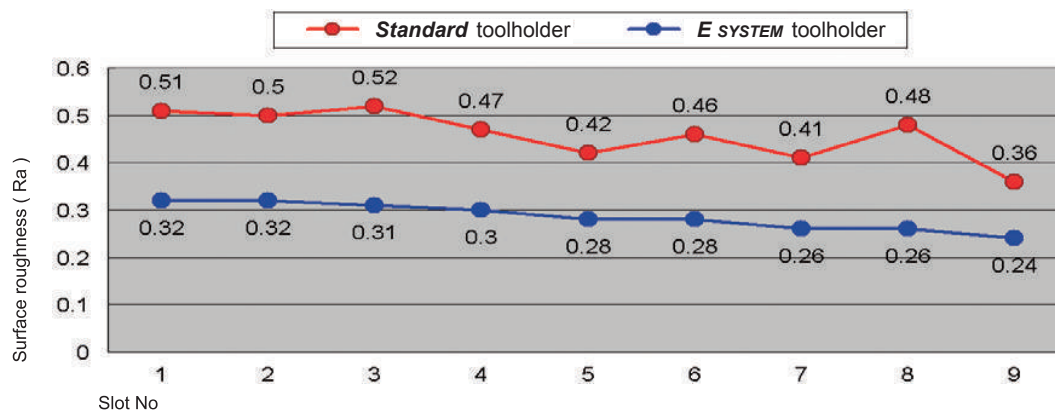
1. D : 0.014mm(0.000551")
2. More serious than **E SYSTEM** toolholder

Cutter wear on **E SYSTEM** toolholder :

- D : 0.009mm(0.00035")

Tool : Nachi
10mm(0.394") OD, 2 flute, Carbide
Machining rotation : clockwise

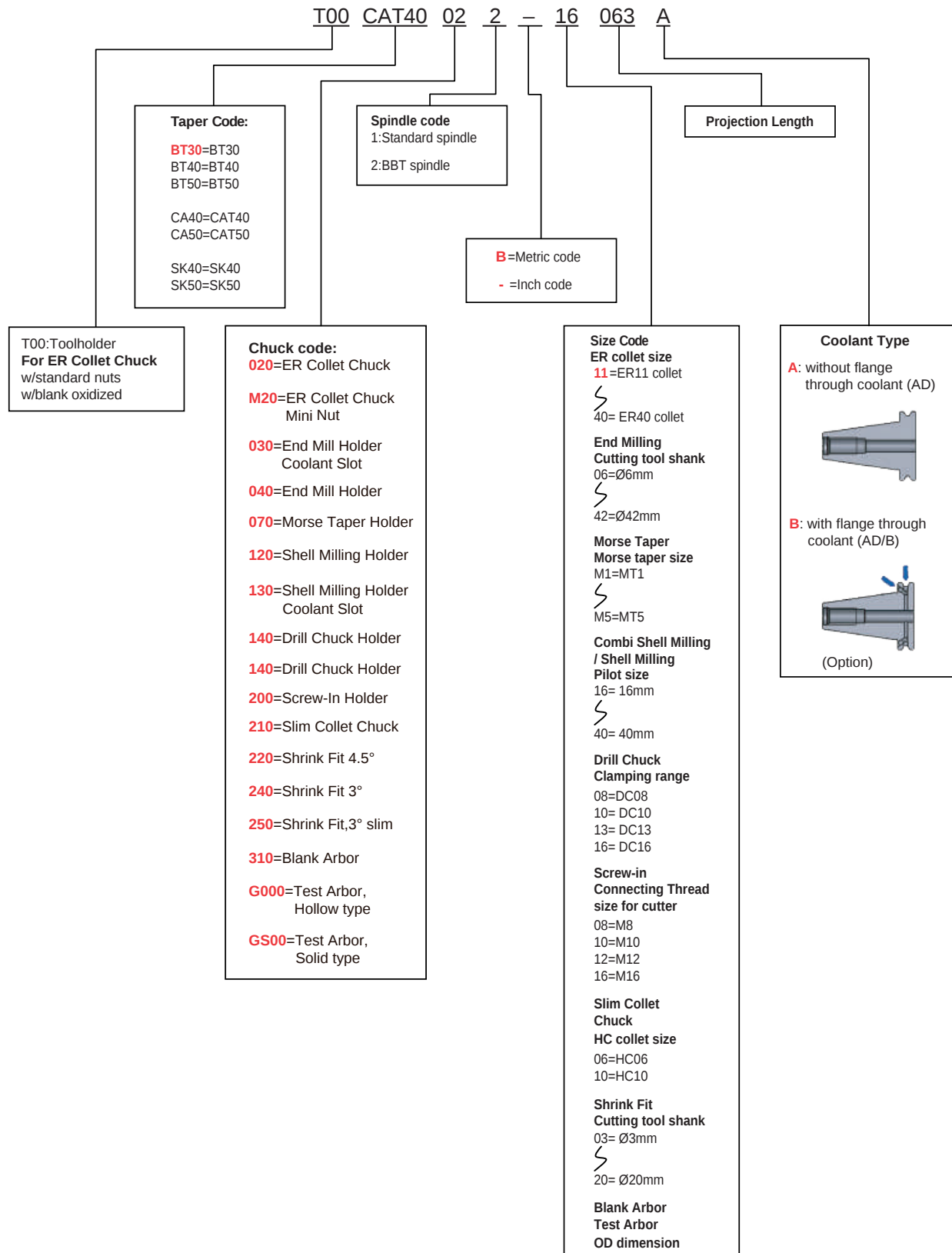
Surface roughness comparison between standard and **E SYSTEM** toolholder



E SYSTEM TOOLHOLDERS (Extreme)

Order No Instruction

Example: **T00CAT40021-16063A**, PCAT40 ER16-063 for standard spindle
T00CAT40022-16063A, PBCAT40 ER16-063 for BBT spindle

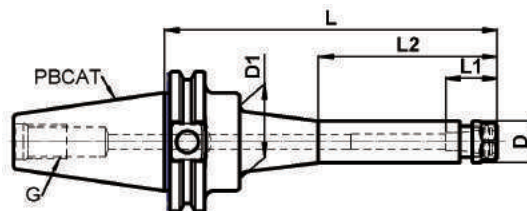


ER COLLET CHUCK **MINI NUT - M22**

MINI NUT

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



PBCAT40 ER COLLET CHUCK **MINI NUT INCH**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00CA40M22-11063A	PBCAT40 ER11-2.50"M	ER11	2.50"	5/64~17/64"	0.63"	0.63"	2.50"	0.66"	0.91"	M16
T00CA40M22-11102A	PBCAT40 ER11-4.00"M	ER11	4.00"	5/64~17/64"	0.63"	0.63"	4.00"	0.66"	2.42"	
T00CA40M22-16063A	PBCAT40 ER16-2.50"M	ER16	2.50"	5/64~13/32"	0.87"	0.87"	2.50"	0.87"	0.91"	
T00CA40M22-16102A	PBCAT40 ER16-4.00"M	ER16	4.00"	5/64~13/32"	0.87"	0.87"	4.00"	0.87"	2.42"	
T00CA40M22-16152A	PBCAT40 ER16-6.00"M	ER16	6.00"	5/64~13/32"	0.87"	1.10"	6.00"	0.87"	3.30"	
T00CA40M22-20063A	PBCAT40 ER20-2.50"M	ER20	2.50"	5/64~1/2"	1.10"	1.10"	2.50"	1.04"	0.91"	
T00CA40M22-20102A	PBCAT40 ER20-4.00"M	ER20	4.00"	5/64~1/2"	1.10"	1.10"	4.00"	1.04"	2.42"	
T00CA40M22-20152A	PBCAT40 ER20-6.00"M	ER20	6.00"	5/64~1/2"	1.10"	1.10"	6.00"	1.04"	4.42"	

PBCAT50 ER COLLET CHUCK **MINI NUT INCH**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00CA50M22-11102A	PBCAT50 ER11-4.00"M	ER11	4.00"	5/64~17/64"	0.63"	0.63"	4.00"	0.66"	2.42"	M24
T00CA50M22-11152A	PBCAT50 ER11-6.00"M	ER11	6.00"	5/64~17/64"	0.63"	1.10"	6.00"	0.66"	2.95"	
T00CA50M22-16102A	PBCAT50 ER16-4.00"M	ER16	4.00"	5/64~13/32"	0.63"	0.63"	4.00"	0.87"	2.44"	
T00CA50M22-16152A	PBCAT50 ER16-6.00"M	ER16	6.00"	5/64~13/32"	0.87"	1.10"	6.00"	0.87"	3.30"	
T00CA50M22-20102A	PBCAT50 ER20-4.00"M	ER20	4.00"	5/64~1/2"	1.10"	1.10"	4.00"	1.04"	2.44"	
T00CA50M22-20152A	PBCAT50 ER20-6.00"M	ER20	6.00"	5/64~1/2"	1.10"	1.10"	6.00"	1.04"	3.30"	

Note:

1. Order: Includes Nut, Excludes ER collet, Retention Knob and Wrench.

ACCESSORIES:

MINI NUT

Order Number	Part Name	Thread	Type	ER Collet Size
T04ER08-M1A	ER08 Mini Nut	M10×0.75	Mini	ER08
T04ER11-M1A	ER11 Mini Nut	M13×0.75	Mini	ER11
T04ER16-M1A	ER16 Mini Nut	M19×1.00	Mini	ER16
T04ER20-M1A	ER20 Mini Nut	M24×1.00	Mini	ER20



MINI WRENCH BEARING WITH ONE-WAY CLUTCHES

Order Number	Part Name	Type
T07ER0805	ER08 MINI WRENCH	Mini
T07ER1105	ER11 MINI WRENCH	Mini
T07ER1605	ER16 MINI WRENCH	Mini
T07ER2005	ER20 MINI WRENCH	Mini



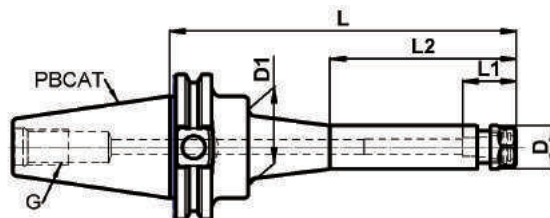
Order Number Instruction

T00	CA40	M22	-	16	070	A
A: w/o flange through coolant, standard (AD type) B: w/ flange through coolant, optional (AD/B type) Projection Length (L) ER Collet Size M21: E system ER collet chuck -Mini Nut for standard spindle, PCAT M22: E system ER collet chuck -Mini Nut for BBT spindle, PBCAT M25: Solid, Dual Face Contact for BBT spindle. SBCAT Taper Type Toolholder Code						

ER COLLET CHUCK - 022 DIN 6499

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



PBCAT40 ER COLLET CHUCK INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00CA40022-11063A	PBCAT40 ER11-2.50"	ER11	2.50"	1/16~1/4"	0.75"	0.75"	2.50"	0.66"	0.91"	5/8"-11
T00CA40022-11089A	PBCAT40 ER11-3.50"	ER11	3.50"	1/16~1/4"	0.75"	0.75"	3.50"	0.66"	1.91"	
T00CA40022-11102A	PBCAT40 ER11-4.00"	ER11	4.00"	1/16~1/4"	0.75"	0.75"	4.00"	0.66"	2.42"	
T00CA40022-11152A	PBCAT40 ER11-6.00"	ER11	6.00"	1/16~1/4"	0.75"	1.10"	6.00"	0.66"	3.30"	
T00CA40022-11203A	PBCAT40 ER11-8.00"	ER11	8.00"	1/16~1/4"	0.75"	1.10"	8.00"	0.66"	3.30"	
T00CA40022-16063A	PBCAT40 ER16-2.50"	ER16	2.50"	1/16~13/32"	1.10"	1.10"	2.50"	0.87"	0.91"	
T00CA40022-16089A	PBCAT40 ER16-3.50"	ER16	3.50"	1/16~13/32"	1.10"	1.10"	3.50"	0.87"	1.91"	
T00CA40022-16102A	PBCAT40 ER16-4.00"	ER16	4.00"	1/16~13/32"	1.10"	1.10"	4.00"	0.87"	2.42"	
T00CA40022-16152A	PBCAT40 ER16-6.00"	ER16	6.00"	1/16~13/32"	1.10"	1.10"	6.00"	0.87"	4.62"	
T00CA40022-16203A	PBCAT40 ER16-8.00"	ER16	8.00"	1/16~13/32"	1.10"	1.77"	8.00"	0.87"	3.34"	
T00CA40022-16254A	PBCAT40 ER16-10.00"	ER16	10.00"	1/16~13/32"	1.10"	1.77"	10.00"	0.87"	3.34"	
T00CA40022-20063A	PBCAT40 ER20-2.50"	ER20	2.50"	1/16~1/2"	1.34"	1.34"	2.50"	1.04"	0.91"	
T00CA40022-20089A	PBCAT40 ER20-3.50"	ER20	3.50"	1/16~1/2"	1.34"	1.34"	3.50"	1.04"	1.91"	
T00CA40022-20102A	PBCAT40 ER20-4.00"	ER20	4.00"	1/16~1/2"	1.34"	1.34"	4.00"	1.04"	2.42"	
T00CA40022-20152A	PBCAT40 ER20-6.00"	ER20	6.00"	1/16~1/2"	1.34"	1.34"	6.00"	1.04"	4.42"	
T00CA40022-20203A	PBCAT40 ER20-8.00"	ER20	8.00"	1/16~1/2"	1.34"	1.34"	8.00"	1.04"	6.42"	
T00CA40022-20254A	PBCAT40 ER20-10.00"	ER20	10.00"	1/16~1/2"	1.34"	1.34"	10.00"	1.04"	8.42"	
T00CA40022-25063A	PBCAT40 ER25-2.50"	ER25	2.50"	1/16~5/8"	1.65"	1.65"	2.50"	1.14"	0.91"	
T00CA40022-25089A	PBCAT40 ER25-3.50"	ER25	3.50"	1/16~5/8"	1.65"	1.65"	3.50"	1.14"	1.91"	
T00CA40022-25102A	PBCAT40 ER25-4.00"	ER25	4.00"	1/16~5/8"	1.65"	1.65"	4.00"	1.14"	2.42"	
T00CA40022-25152A	PBCAT40 ER25-6.00"	ER25	6.00"	1/16~5/8"	1.65"	1.65"	6.00"	1.14"	4.42"	
T00CA40022-25203A	PBCAT40 ER25-8.00"	ER25	8.00"	1/16~5/8"	1.65"	1.65"	8.00"	1.14"	6.42"	
T00CA40022-25254A	PBCAT40 ER25-10.00"	ER25	10.00"	1/16~5/8"	1.65"	1.65"	10.00"	1.14"	8.42"	
T00CA40022-32070A	PBCAT40 ER32-2.76"	ER32	2.76"	3/32~3/4"	1.97"	1.97"	2.76"	1.34"	1.17"	
T00CA40022-32089A	PBCAT40 ER32-3.50"	ER32	3.50"	3/32~3/4"	1.97"	1.97"	3.50"	1.34"	1.92"	
T00CA40022-32102A	PBCAT40 ER32-4.00"	ER32	4.00"	3/32~3/4"	1.97"	1.97"	4.00"	1.34"	2.42"	
T00CA40022-32152A	PBCAT40 ER32-6.00"	ER32	6.00"	3/32~3/4"	1.97"	1.97"	6.00"	1.34"	4.42"	
T00CA40022-32203A	PBCAT40 ER32-8.00"	ER32	8.00"	3/32~3/4"	1.97"	1.97"	8.00"	1.34"	6.42"	
T00CA40022-32254A	PBCAT40 ER32-10.00"	ER32	10.00"	3/32~3/4"	1.97"	1.97"	10.00"	1.34"	8.42"	
T00CA40022-40102A	PBCAT40 ER40-4.00"	ER40	4.00"	1/8~1"	2.48"	2.48"	4.00"	1.50"	3.14"	
T00CA40022-40152A	PBCAT40 ER40-6.00"	ER40	6.00"	1/8~1"	2.48"	2.48"	6.00"	1.50"	4.42"	
T00CA40022-40203A	PBCAT40 ER40-8.00"	ER40	8.00"	1/8~1"	2.48"	2.48"	8.00"	1.50"	6.42"	

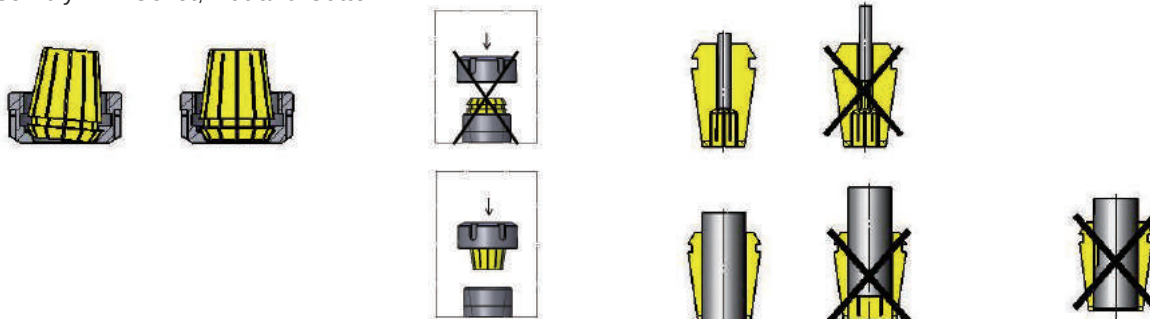
PBCAT50 ER COLLET CHUCK INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00CA50022-16102A	PBCAT50 ER16-4.00"	ER16	4.00"	1/16~13/32"	1.10"	1.10"	4.00"	0.87"	2.42"	1"-8
T00CA50022-16152A	PBCAT50 ER16-6.00"	ER16	6.00"	1/16~13/32"	1.10"	1.10"	6.00"	0.87"	4.62"	
T00CA50022-16203A	PBCAT50 ER16-8.00"	ER16	8.00"	1/16~13/32"	1.10"	1.77"	8.00"	0.87"	3.34"	
T00CA50022-16254A	PBCAT50 ER16-10.00"	ER16	10.00"	1/16~13/32"	1.10"	1.77"	10.00"	0.87"	3.34"	
T00CA50022-16305A	PBCAT50 ER16-12.00"	ER16	12.00"	1/16~13/32"	1.10"	1.77"	12.00"	0.87"	3.34"	
T00CA50022-16381A	PBCAT50 ER16-15.00"	ER16	15.00"	1/16~13/32"	1.10"	1.77"	15.00"	0.87"	3.34"	
T00CA50022-20102A	PBCAT50 ER20-4.00"	ER20	4.00"	1/16~1/2"	1.34"	1.34"	4.00"	1.04"	2.42"	
T00CA50022-20152A	PBCAT50 ER20-6.00"	ER20	6.00"	1/16~1/2"	1.34"	1.34"	6.00"	1.04"	4.42"	
T00CA50022-20203A	PBCAT50 ER20-8.00"	ER20	8.00"	1/16~1/2"	1.34"	1.34"	8.00"	1.04"	6.42"	
T00CA50022-20254A	PBCAT50 ER20-10.00"	ER20	10.00"	1/16~1/2"	1.34"	1.77"	10.00"	1.04"	3.34"	
T00CA50022-20305A	PBCAT50 ER20-12.00"	ER20	12.00"	1/16~1/2"	1.34"	1.77"	12.00"	1.04"	3.34"	
T00CA50022-20381A	PBCAT50 ER20-15.00"	ER20	15.00"	1/16~1/2"	1.34"	1.77"	15.00"	1.04"	3.34"	
T00CA50022-25102A	PBCAT50 ER25-4.00"	ER25	4.00"	1/16~5/8"	1.65"	1.65"	4.00"	1.14"	2.42"	
T00CA50022-25152A	PBCAT50 ER25-6.00"	ER25	6.00"	1/16~5/8"	1.65"	1.65"	6.00"	1.14"	4.42"	
T00CA50022-25203A	PBCAT50 ER25-8.00"	ER25	8.00"	1/16~5/8"	1.65"	1.65"	8.00"	1.14"	6.42"	
T00CA50022-25254A	PBCAT50 ER25-10.00"	ER25	10.00"	1/16~5/8"	1.65"	1.65"	10.00"	1.14"	8.42"	
T00CA50022-25381A	PBCAT50 ER25-15.00"	ER25	15.00"	1/16~5/8"	1.65"	2.75"	15.00"	1.14"	3.42"	
T00CA50022-32070A	PBCAT50 ER32-2.76"	ER32	2.76"	3/32~3/4"	1.97"	1.97"	2.76"	1.34"	1.18"	
T00CA50022-32102A	PBCAT50 ER32-4.00"	ER32	4.00"	3/32~3/4"	1.97"	1.97"	4.00"	1.34"	2.42"	
T00CA50022-32152A	PBCAT50 ER32-6.00"	ER32	6.00"	3/32~3/4"	1.97"	1.97"	6.00"	1.34"	4.42"	
T00CA50022-32203A	PBCAT50 ER32-8.00"	ER32	8.00"	3/32~3/4"	1.97"	1.97"	8.00"	1.34"	6.42"	
T00CA50022-32254A	PBCAT50 ER32-10.00"	ER32	10.00"	3/32~3/4"	1.97"	1.97"	10.00"	1.34"	8.42"	
T00CA50022-32305A	PBCAT50 ER32-12.00"	ER32	12.00"	3/32~3/4"	1.97"	1.97"	12.00"	1.34"	10.42"	
T00CA50022-32381A	PBCAT50 ER32-15.00"	ER32	15.00"	3/32~3/4"	1.97"	2.75"	15.00"	1.34"	3.46"	
T00CA50022-40102A	PBCAT50 ER40-4.00"	ER40	4.00"	1/8~1"	2.48"	2.48"	4.00"	1.50"	2.42"	
T00CA50022-40152A	PBCAT50 ER40-6.00"	ER40	6.00"	1/8~1"	2.48"	2.48"	6.00"	1.50"	4.42"	
T00CA50022-40203A	PBCAT50 ER40-8.00"	ER40	8.00"	1/8~1"	2.48"	2.48"	8.00"	1.50"	6.42"	

ER COLLET CHUCK - 022 DIN 6499

Note:

1. Order: Includes Nut Excludes ER collet, Retention Knob and Wrench.
2. Assembly: ER Collet, Nut and Cutter.



ACCESSORIES:

ER NUTS - Standard			
Order Number	Part Name	Thread	Type
T04ER11-H1A	ER11 Nut, Hex	M14×0.75	Hex
T04ER16-H1A	ER16 Nut, Hex	M22×1.50	Hex
T04ER20-H1A	ER20 Nut, Hex	M25×1.50	Hex
T04ER25-D1A	ER25 Nut	M32×1.50	Spanner
T04ER32-D1A	ER32 Nut	M40×1.50	Spanner
T04ER40-D1A	ER40 Nut	M50×1.50	Spanner

ER HIGH - BALANCED NUTS - Balanced 1g-mm	
Order Number	Part Name
T04ER11-H2A	ER11 High-balanced Nut, Hex
T04ER16-H2A	ER16 High-balanced Nut, Hex
T04ER20-H2A	ER20 High-balanced Nut, Hex
T04ER25-D2A	ER25 High-balanced Nut
T04ER32-D2A	ER32 High-balanced Nut
T04ER40-D2A	ER40 High-balanced Nut

ER NUTS

Order Number	Part Name
T04ER11-H1A	 Hex Nut T04ERXX-H1A
T04ER16-H1A	
T04ER20-H1A	
T04ER25-D1A	 Spanner Nut T04ERXX-D1A
T04ER32-D1A	
T04ER40-D1A	

WRENCH

Order Number	Part Name
T07ER1101	ER11 HEX WRENCH
T07ER1601	ER16 HEX WRENCH
T07ER2001	ER20 HEX WRENCH
T07ER2502	ER25 ER WRENCH
T07ER3202	ER32 ER WRENCH
T07ER4002	ER40 ER WRENCH

ER BALL BEARING NUTS

T04ER25-D1A-BB	ER25 Ball bearing Nut	M32×1.50	Spanner
T04ER32-D1A-BB	ER32 Ball bearing Nut	M40×1.50	Spanner
T04ER40-D1A-BB	ER40 Ball bearing Nut	M50×1.50	Spanner

Backup Screws for ER Collet Chuck Inch

Order Number	Part Name	ER size
T06PS-CAER11LH	ER11 Backup Screws	ER11
T06PS-CAER16LH	ER16 Backup Screws	ER16
T06PS-CAER20LH	ER20 Backup Screws	ER20
T06PS-CAER25LH	ER25 Backup Screws	ER25
T06PS-CAER32LH	ER32 Backup Screws	ER32
T06PS-CAER40LH	ER40 Backup Screws	ER40

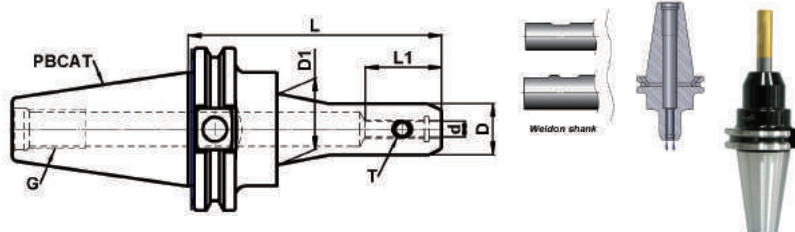


Order Number Instruction

T00	CA40	022	-	16	070	A
Toolholder Code		Taper Type	ER Collet Size	Projection Length (L)	A: w/o flange through coolant, standard (AD type) B: w/ flange through coolant, optional (AD/B type)	
					M21: E system ER collet chuck -Mini Nut for standard spindle, PCAT M22: E system ER collet chuck -Mini Nut for BBT spindle, PBCAT M25: Solid, Dual Face Contact for BBT spindle. SBCAT	

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.00018")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



PBCAT40 END MILL HOLDER COOLANT SLOT INCH

Order Number	Part Name	Cutter	Length	d	D	D1	L	L1	T	G
T00CA40032-03065A	PBCAT40 EM1/8"-2.56"J	1/8"	2.56"	1/8"	0.69"	0.69"	2.56"	0.63"	No.6-32	5/8"-11
T00CA40032-03102A	PBCAT40 EM1/8"-2.56"J	1/8"	4.00"	1/8"	0.69"	0.69"	4.00"	0.63"	No.6-32	
T00CA40032-05065A	PBCAT40 EM3/16"-2.56"J	3/16"	2.56"	3/16"	0.79"	0.79"	2.56"	0.86"	No.8-32	
T00CA40032-05102A	PBCAT40 EM3/16"-4.00"J	3/16"	4.00"	3/16"	0.79"	0.79"	4.00"	0.86"	No.8-32	
T00CA40032-06065A	PBCAT40 EM1/4"-2.56"J	1/4"	2.56"	1/4"	0.79"	0.79"	2.56"	1.18"	1/4"-28	
T00CA40032-06102A	PBCAT40 EM1/4"-4.00"J	1/4"	4.00"	1/4"	0.79"	0.79"	4.00"	1.18"	1/4"-28	
T00CA40032-06152A	PBCAT40 EM1/4"-6.00"J	1/4"	6.00"	1/4"	0.79"	1.10"	6.00"	1.18"	1/4"-28	
T00CA40032-08063A	PBCAT40 EM5/16"-2.50"J	5/16"	2.50"	5/16"	1.00"	1.00"	2.50"	1.38"	1/4"-28	
T00CA40032-08102A	PBCAT40 EM5/16"-4.00"J	5/16"	4.00"	5/16"	1.00"	1.00"	4.00"	1.38"	1/4"-28	
T00CA40032-08152A	PBCAT40 EM5/16"-6.00"J	5/16"	6.00"	5/16"	1.00"	1.34"	6.00"	1.38"	1/4"-28	
T00CA40032-09065A	PBCAT40 EM3/8"-2.56"J	3/8"	2.56"	3/8"	1.00"	1.00"	2.56"	1.54"	3/8"-24	
T00CA40032-09102A	PBCAT40 EM3/8"-4.00"J	3/8"	4.00"	3/8"	1.00"	1.00"	4.00"	1.54"	3/8"-24	
T00CA40032-09152A	PBCAT40 EM3/8"-6.00"J	3/8"	6.00"	3/8"	1.00"	1.34"	6.00"	1.54"	3/8"-24	
T00CA40032-12045A	PBCAT40 EM1/2"-1.75"J	1/2"	1.75"	1/2"	1.38"	1.38"	1.75"	1.73"	7/16"-20	
T00CA40032-12065A	PBCAT40 EM1/2"-2.56"J	1/2"	2.56"	1/2"	1.38"	1.38"	2.56"	1.73"	7/16"-20	
T00CA40032-12102A	PBCAT40 EM1/2"-4.00"J	1/2"	4.00"	1/2"	1.38"	1.38"	4.00"	1.73"	7/16"-20	
T00CA40032-12152A	PBCAT40 EM1/2"-6.00"J	1/2"	6.00"	1/2"	1.38"	1.38"	6.00"	1.73"	7/16"-20	
T00CA40032-16045A	PBCAT40 EM5/8"-1.75"J	5/8"	1.75"	5/8"	1.65"	1.65"	1.75"	2.09"	9/16"-18	
T00CA40032-16065A	PBCAT40 EM5/8"-2.56"J	5/8"	2.56"	5/8"	1.65"	1.65"	2.56"	2.09"	9/16"-18	
T00CA40032-16102A	PBCAT40 EM5/8"-4.00"J	5/8"	4.00"	5/8"	1.65"	1.65"	4.00"	2.09"	9/16"-18	
T00CA40032-16152A	PBCAT40 EM5/8"-6.00"J	5/8"	6.00"	5/8"	1.65"	1.65"	6.00"	2.09"	9/16"-18	
T00CA40032-19045A	PBCAT40 EM3/4"-1.75"J	3/4"	1.75"	3/4"	1.75"	1.75"	1.75"	2.24"	5/8"-18	
T00CA40032-19065A	PBCAT40 EM3/4"-2.56"J	3/4"	2.56"	3/4"	1.89"	1.89"	2.56"	2.24"	5/8"-18	
T00CA40032-19102A	PBCAT40 EM3/4"-4.00"J	3/4"	4.00"	3/4"	1.89"	1.89"	4.00"	2.24"	5/8"-18	
T00CA40032-19152A	PBCAT40 EM3/4"-6.00"J	3/4"	6.00"	3/4"	1.89"	1.89"	6.00"	2.24"	5/8"-18	
T00CA40032-22045A	PBCAT40 EM7/8"-1.75"J	7/8"	1.75"	7/8"	1.94"	1.94"	1.75"	2.17"	5/8"-18	
T00CA40032-22089A	PBCAT40 EM7/8"-3.50"J	7/8"	3.50"	7/8"	2.00"	2.00"	3.50"	2.17"	5/8"-18	
T00CA40032-22152A	PBCAT40 EM7/8"-6.00"J	7/8"	6.00"	7/8"	2.00"	2.00"	6.00"	2.17"	5/8"-18	
T00CA40032-25050A	PBCAT40 EM1"-1.97"J	1"	1.97"	1"	2.25"	2.25"	1.97"	2.52"	3/4"-16	
T00CA40032-25102A	PBCAT40 EM1"-4.00"J	1"	4.00"	1"	2.36"	2.36"	4.00"	2.52"	3/4"-16	
T00CA40032-25152A	PBCAT40 EM1"-6.00"J	1"	6.00"	1"	2.36"	2.36"	6.00"	2.52"	3/4"-16	
T00CA40032-32109A	PBCAT40 EM1 1/4"-4.29"J	1 1/4"	4.29"	1 1/4"	2.52"	2.52"	4.29"	2.68"	3/4"-16	
T00CA40032-32152A	PBCAT40 EM1 1/4"-6.00"J	1 1/4"	6.00"	1 1/4"	2.52"	2.52"	6.00"	2.68"	3/4"-16	
T00CA40032-32203A	PBCAT40 EM1 1/4"-8.00"J	1 1/4"	8.00"	1 1/4"	2.52"	2.52"	8.00"	2.68"	3/4"-16	

PBCAT50 END MILL HOLDER COOLANT SLOT INCH

Order Number	Part Name	Cutter	Length	d	D	D1	L	L1	T	G
T00CA50032-06065A	PBCAT50 EM1/4"-2.56"J	1/4"	2.56"	1/4"	0.79"	0.79"	2.56"	1.18"	1/4"-28	1"-8
T00CA50032-06102A	PBCAT50 EM1/4"-4.00"J	1/4"	4.00"	1/4"	0.79"	0.79"	4.00"	1.18"	1/4"-28	
T00CA50032-06152A	PBCAT50 EM1/4"-6.00"J	1/4"	6.00"	1/4"	0.79"	1.10"	6.00"	1.18"	1/4"-28	
T00CA50032-06203A	PBCAT50 EM1/4"-8.00"J	1/4"	8.00"	1/4"	0.79"	1.10"	8.00"	1.18"	1/4"-28	
T00CA50032-08065A	PBCAT50 EM5/16"-2.56"J	5/16"	2.56"	5/16"	1.00"	1.00"	2.56"	1.38"	1/4"-28	
T00CA50032-08102A	PBCAT50 EM5/16"-4.00"J	5/16"	4.00"	5/16"	1.00"	1.00"	4.00"	1.38"	1/4"-28	
T00CA50032-08152A	PBCAT50 EM5/16"-6.00"J	5/16"	6.00"	5/16"	1.00"	1.34"	6.00"	1.38"	1/4"-28	
T00CA50032-08203A	PBCAT50 EM5/16"-8.00"J	5/16"	8.00"	5/16"	1.00"	1.34"	8.00"	1.38"	1/4"-28	
T00CA50032-09065A	PBCAT50 EM3/8"-2.56"J	3/8"	2.56"	3/8"	1.00"	1.00"	2.56"	1.54"	3/8"-24	
T00CA50032-09102A	PBCAT50 EM3/8"-4.00"J	3/8"	4.00"	3/8"	1.00"	1.00"	4.00"	1.54"	3/8"-24	
T00CA50032-09152A	PBCAT50 EM3/8"-6.00"J	3/8"	6.00"	3/8"	1.00"	1.34"	6.00"	1.54"	3/8"-24	
T00CA50032-09203A	PBCAT50 EM3/8"-8.00"J	3/8"	8.00"	3/8"	1.00"	1.34"	8.00"	1.54"	3/8"-24	
T00CA50032-12075A	PBCAT50 EM1/2"-2.95"J	1/2"	2.95"	1/2"	1.38"	1.38"	2.95"	1.73"	7/16"-20	
T00CA50032-12102A	PBCAT50 EM1/2"-4.00"J	1/2"	4.00"	1/2"	1.38"	1.38"	4.00"	1.73"	7/16"-20	
T00CA50032-12152A	PBCAT50 EM1/2"-6.00"J	1/2"	6.00"	1/2"	1.38"	1.38"	6.00"	1.73"	7/16"-20	
T00CA50032-12203A	PBCAT50 EM1/2"-8.00"J	1/2"	8.00"	1/2"	1.38"	1.38"	8.00"	1.73"	7/16"-20	
T00CA50032-16076A	PBCAT50 EM5/8"-3.00"J	5/8"	3.00"	5/8"	1.65"	1.65"	3.00"	2.09"	9/16"-18	
T00CA50032-16102A	PBCAT50 EM5/8"-4.00"J	5/8"	4.00"	5/8"	1.65"	1.65"	4.00"	2.09"	9/16"-18	
T00CA50032-16152A	PBCAT50 EM5/8"-6.00"J	5/8"	6.00"	5/8"	1.65"	1.65"	6.00"	2.09"	9/16"-18	
T00CA50032-16203A	PBCAT50 EM5/8"-8.00"J	5/8"	8.00"	5/8"	1.65"	1.65"	8.00"	2.09"	9/16"-18	
T00CA50032-19076A	PBCAT50 EM3/4"-3.00"J	3/4"	3.00"	3/4"	1.89"	1.89"	3.00"	2.24"	5/8"-18	
T00CA50032-19102A	PBCAT50 EM3/4"-4.00"J	3/4"	4.00"	3/4"	1.89"	1.89"	4.00"	2.24"	5/8"-18	
T00CA50032-19152A	PBCAT50 EM3/4"-6.00"J	3/4"	6.00"	3/4"	1.89"	1.89"	6.00"	2.24"	5/8"-18	
T00CA50032-19203A	PBCAT50 EM3/4"-8.00"J	3/4"	8.00"	3/4"	1.89"	1.89"	8.00"	2.24"	5/8"-18	
T00CA50032-22089A	PBCAT50 EM7/8"-3.50"J	7/8"	3.50"	7/8"	2.00"	2.00"	3.50"	2.17"	5/8"-18	
T00CA50032-22152A	PBCAT50 EM7/8"-6.00"J	7/8"	6.00"	7/8"	2.00"	2.00"	6.00"	2.17"	5/8"-18	

Order Number	Part Name	Cutter	Length	d	D	D1	L	L1	T	G
T00CA50032-22203A	PBCAT50 EM7/8"-8.00"J	7/8"	8.00"	7/8"	2.00"	2.00"	8.00"	2.17"	5/8"-18	1"-8
T00CA50032-25102A	PBCAT50 EM1"-4.00"J	1"	4.00"	1"	2.25"	2.25"	4.00"	2.52"	3/4"-16	
T00CA50032-25152A	PBCAT50 EM1"-6.00"J	1"	6.00"	1"	2.36"	2.36"	6.00"	2.52"	3/4"-16	
T00CA50032-25203A	PBCAT50 EM1"-8.00"J	1"	8.00"	1"	2.36"	2.36"	8.00"	2.52"	3/4"-16	
T00CA50032-32102A	PBCAT50 EM1 1/4"-4.00"J	1 1/4"	4.00"	1 1/4"	2.52"	2.52"	4.00"	2.68"	3/4"-16	
T00CA50032-32152A	PBCAT50 EM1 1/4"-6.00"J	1 1/4"	6.00"	1 1/4"	2.52"	2.52"	6.00"	2.68"	3/4"-16	
T00CA50032-32203A	PBCAT50 EM1 1/4"-8.00"J	1 1/4"	8.00"	1 1/4"	2.52"	2.52"	8.00"	2.68"	3/4"-16	

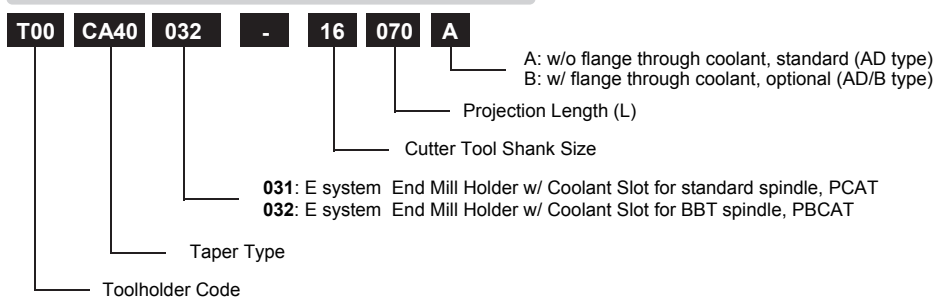
ACCESSORIES:

Set Screw for End Mill Holder INCH		
Order Number	Part Name	END MILL
T06EM03-CA	EM1/8",Set Screw	1/8"
T06EM05-CA	EM3/16",Set Screw	3/16"
T06EM06-CA	EM1/4",Set Screw	1/4"
T06EM09-CA	EM3/8",Set Screw	3/8"
T06EM12-CA	EM1/2",Set Screw	1/2"
T06EM16-CA01	EM5/8",Set Screw01	5/8"
T06EM16-CA02	EM5/8",Set Screw02	5/8"
T06EM19-CA01	EM3/4",Set Screw01	3/4"
T06EM19-CA02	EM3/4",Set Screw02	3/4"
T06EM25-CA01	EM1",Set Screw01	1", 1 1/4"
T06EM25-CA02	EM1",Set Screw02	1", 1 1/4"
T06EM25-CA03	EM1",Set Screw03	1", 1 1/4"
T06EM38-CA	EM1 1/2" Set Screw	1 1/2"
T06EM50-CA	EM 2" Set Screw	2"



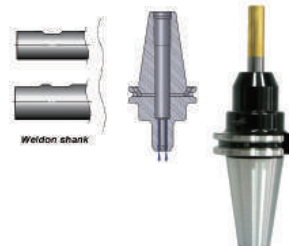
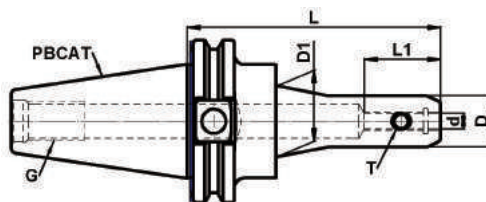
P168~169

Order Number Instruction



Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



PBCAT40 END MILL HOLDER COOLANT SLOT METRIC

Order Number	Part Name	Cutter mm	Length	d mm	D	D1	L	L1	T	G
T00CA40032B06065A	PBCAT40 EM06-2.56"J	6	2.56"	6	0.79"	0.79"	2.56"	1.18"	1/4"-28	5/8"-11
T00CA40032B06102A	PBCAT40 EM06-4.00"J	6	4.00"	6	0.79"	0.79"	4.00"	1.18"	1/4"-28	
T00CA40032B08063A	PBCAT40 EM08-2.50"J	8	2.50"	8	1.00"	1.00"	2.50"	1.38"	1/4"-28	
T00CA40032B08102A	PBCAT40 EM08-4.00"J	8	4.00"	8	1.00"	1.00"	4.00"	1.38"	1/4"-28	
T00CA40032B10065A	PBCAT40 EM10-2.56"J	10	2.50"	10	1.00"	1.00"	2.50"	1.54"	3/8"-24	
T00CA40032B10102A	PBCAT40 EM10-4.00"J	10	4.00"	10	1.00"	1.00"	4.00"	1.54"	3/8"-24	
T00CA40032B12065A	PBCAT40 EM12-2.56"J	12	2.50"	12	1.38"	1.38"	2.50"	1.73"	7/16"-20	
T00CA40032B12102A	PBCAT40 EM12-4.00"J	12	4.00"	12	1.38"	1.38"	4.00"	1.73"	7/16"-20	
T00CA40032B16065A	PBCAT40 EM16-2.56"J	16	2.56"	16	1.65"	1.65"	2.56"	2.09"	9/16"-18	
T00CA40032B16102A	PBCAT40 EM16-4.00"J	16	4.00"	16	1.65"	1.65"	4.00"	2.09"	9/16"-18	
T00CA40032B20065A	PBCAT40 EM20-2.56"J	20	2.56"	20	1.75"	1.75"	2.56"	2.24"	5/8"-18	
T00CA40032B20102A	PBCAT40 EM20-4.00"J	20	4.00"	20	1.75"	1.75"	4.00"	2.24"	5/8"-18	
T00CA40032B25102A	PBCAT40 EM25-4.00"J	25	4.00"	25	2.36"	2.36"	4.00"	2.52"	3/4"-16	
T00CA40032B32120A	PBCAT40 EM32-4.72"J	32	4.72"	32	2.52"	2.52"	4.72"	2.68"	3/4"-16	

PBCAT50 END MILL HOLDER COOLANT SLOT METRIC

Order Number	Part Name	Cutter mm	Length	d mm	D	D1	L	L1	T	G
T00CA50032B06065A	PBCAT50 EM06-2.56"J	6	2.56"	6	0.79"	0.79"	2.56"	1.18"	1/4"-28	1"-8
T00CA50032B06102A	PBCAT50 EM06-4.00"J	6	4.00"	6	0.79"	0.79"	4.00"	1.18"	1/4"-28	
T00CA50032B08065A	PBCAT50 EM08-2.56"J	8	2.56"	8	1.00"	1.00"	2.56"	1.38"	1/4"-28	
T00CA50032B08102A	PBCAT50 EM08-4.00"J	8	4.00"	8	1.00"	1.00"	4.00"	1.38"	1/4"-28	
T00CA50032B10065A	PBCAT50 EM10-2.56"J	10	2.50"	10	1.00"	1.00"	2.50"	1.54"	3/8"-24	
T00CA50032B10102A	PBCAT50 EM10-4.00"J	10	4.00"	10	1.00"	1.00"	4.00"	1.54"	3/8"-24	
T00CA50032B12075A	PBCAT50 EM12-2.95"J	12	2.95"	12	1.38"	1.38"	2.95"	1.73"	7/16"-20	
T00CA50032B12102A	PBCAT50 EM12-4.00"J	12	4.00"	12	1.38"	1.38"	4.00"	1.73"	7/16"-20	
T00CA50032B16076A	PBCAT50 EM16-3.00"J	16	3.00"	16	1.65"	1.65"	3.00"	2.09"	9/16"-18	
T00CA50032B16102A	PBCAT50 EM16-4.00"J	16	4.00"	16	1.65"	1.65"	4.00"	2.09"	9/16"-18	
T00CA50032B20076A	PBCAT50 EM20-3.00"J	20	3.00"	20	1.75"	1.75"	3.00"	2.24"	5/8"-18	
T00CA50032B20102A	PBCAT50 EM20-4.00"J	20	4.00"	20	1.75"	1.75"	4.00"	2.24"	5/8"-18	
T00CA50032B25102A	PBCAT50 EM25-4.00"J	25	4.00"	25	2.36"	2.36"	4.00"	2.52"	3/4"-16	
T00CA50032B32102A	PBCAT50 EM32-4.00"J	32	4.00"	32	2.52"	2.52"	4.00"	2.68"	3/4"-16	

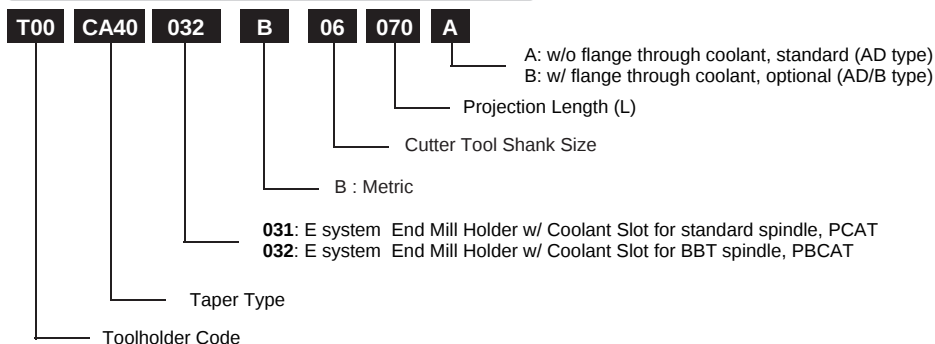
ACCESSORIES:

Set Screw for End Mill Holder Metric		
Order Number	Part Name	END MILL
T06EM03-CA	EM1/8",Set Screw	1/8"
T06EM05-CA	EM3/16",Set Screw	3/16"
T06EM06-CA	EM1/4",Set Screw	1/4"
T06EM09-CA	EM3/8",Set Screw	3/8"
T06EM12-CA	EM1/2",Set Screw	1/2"
T06EM16-CA01	EM5/8",Set Screw01	5/8"
T06EM16-CA02	EM5/8",Set Screw02	5/8"
T06EM19-CA01	EM3/4",Set Screw01	3/4"
T06EM19-CA02	EM3/4",Set Screw02	3/4"
T06EM25-CA01	EM1",Set Screw01	1", 1 1/4"
T06EM25-CA02	EM1",Set Screw02	1", 1 1/4"
T06EM25-CA03	EM1",Set Screw03	1", 1 1/4"
T06EM38-CA	EM1 1/2" Set Screw	1 1/2"
T06EM50-CA	EM 2" Set Screw	2"



P168-169

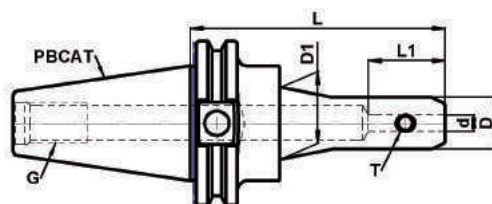
Order Number Instruction



END MILL HOLDER - 042 DIN 1835B

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0018")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



PBCAT40 END MILL HOLDER INCH

Order Number	Part Name	Cutter	Length	d	D	D1	L	L1	T	G
T00CA40042-03065A	PBCAT40 EM1/8"-2.56"	1/8"	2.56"	1/8"	0.69"	0.69"	2.56"	0.63"	No.6-32	5/8"-11
T00CA40042-03102A	PBCAT40 EM1/8"-4.00"	1/8"	4.00"	1/8"	0.69"	0.69"	4.00"	0.63"	No.6-32	
T00CA40042-05065A	PBCAT40 EM3/16"-2.56"	3/16"	2.56"	3/16"	0.79"	0.79"	2.56"	0.86"	No.8-32	
T00CA40042-05102A	PBCAT40 EM3/16"-4.00"	3/16"	4.00"	3/16"	0.79"	0.79"	4.00"	0.86"	No.8-32	
T00CA40042-06065A	PBCAT40 EM1/4"-2.56"	1/4"	2.56"	1/4"	0.79"	0.79"	2.56"	1.18"	1/4"-28	
T00CA40042-06102A	PBCAT40 EM1/4"-4.00"	1/4"	4.00"	1/4"	0.79"	0.79"	4.00"	1.18"	1/4"-28	
T00CA40042-06152A	PBCAT40 EM1/4"-6.00"	1/4"	6.00"	1/4"	0.79"	1.10"	6.00"	1.18"	1/4"-28	
T00CA40042-06203A	PBCAT40 EM1/4"-8.00"	1/4"	8.00"	1/4"	0.79"	1.10"	8.00"	1.18"	1/4"-28	
T00CA40042-08063A	PBCAT40 EM5/16"-2.50"	5/16"	2.50"	5/16"	1.00"	1.00"	2.50"	1.37"	1/4"-28	
T00CA40042-08102A	PBCAT40 EM5/16"-4.00"	5/16"	4.00"	5/16"	1.00"	1.00"	4.00"	1.38"	1/4"-28	
T00CA40042-08152A	PBCAT40 EM5/16"-6.00"	5/16"	6.00"	5/16"	1.00"	1.34"	6.00"	1.38"	1/4"-28	
T00CA40042-08203A	PBCAT40 EM5/16"-8.00"	5/16"	8.00"	5/16"	1.00"	1.34"	8.00"	1.38"	1/4"-28	
T00CA40042-09065A	PBCAT40 EM3/8"-2.56"	3/8"	2.56"	3/8"	1.00"	1.00"	2.56"	1.54"	3/8"-24	
T00CA40042-09102A	PBCAT40 EM3/8"-4.00"	3/8"	4.00"	3/8"	1.00"	1.00"	4.00"	1.54"	3/8"-24	
T00CA40042-09152A	PBCAT40 EM3/8"-6.00"	3/8"	6.00"	3/8"	1.00"	1.34"	6.00"	1.54"	3/8"-24	
T00CA40042-09203A	PBCAT40 EM3/8"-8.00"	3/8"	8.00"	3/8"	1.00"	1.34"	8.00"	1.54"	3/8"-24	
T00CA40042-12045A	PBCAT40 EM1/2"-1.75"	1/2"	1.75"	1/2"	1.38"	1.38"	1.75"	1.73"	7/16"-20	
T00CA40042-12065A	PBCAT40 EM1/2"-2.56"	1/2"	2.56"	1/2"	1.38"	1.38"	2.56"	1.73"	7/16"-20	
T00CA40042-12102A	PBCAT40 EM1/2"-4.00"	1/2"	4.00"	1/2"	1.38"	1.38"	4.00"	1.73"	7/16"-20	
T00CA40042-12152A	PBCAT40 EM1/2"-6.00"	1/2"	6.00"	1/2"	1.38"	1.38"	6.00"	1.73"	7/16"-20	
T00CA40042-12203A	PBCAT40 EM1/2"-8.00"	1/2"	8.00"	1/2"	1.38"	1.38"	8.00"	1.73"	7/16"-20	
T00CA40042-16045A	PBCAT40 EM5/8"-1.75"	5/8"	1.75"	5/8"	1.65"	1.65"	1.75"	2.09"	9/16"-18	
T00CA40042-16065A	PBCAT40 EM5/8"-2.56"	5/8"	2.56"	5/8"	1.65"	1.65"	2.56"	2.09"	9/16"-18	
T00CA40042-16102A	PBCAT40 EM5/8"-4.00"	5/8"	4.00"	5/8"	1.65"	1.65"	4.00"	2.09"	9/16"-18	
T00CA40042-16152A	PBCAT40 EM5/8"-6.00"	5/8"	6.00"	5/8"	1.65"	1.65"	6.00"	2.09"	9/16"-18	
T00CA40042-16203A	PBCAT40 EM5/8"-8.00"	5/8"	8.00"	5/8"	1.65"	1.65"	8.00"	2.09"	9/16"-18	
T00CA40042-19045A	PBCAT40 EM3/4"-1.75"	3/4"	1.75"	3/4"	1.75"	1.75"	1.75"	2.17"	5/8"-18	
T00CA40042-19065A	PBCAT40 EM3/4"-2.56"	3/4"	2.56"	3/4"	1.89"	1.89"	2.56"	2.24"	5/8"-18	
T00CA40042-19102A	PBCAT40 EM3/4"-4.00"	3/4"	4.00"	3/4"	1.89"	1.89"	4.00"	2.24"	5/8"-18	
T00CA40042-19152A	PBCAT40 EM3/4"-6.00"	3/4"	6.00"	3/4"	1.89"	1.89"	6.00"	2.24"	5/8"-18	
T00CA40042-19203A	PBCAT40 EM3/4"-8.00"	3/4"	8.00"	3/4"	1.89"	1.89"	8.00"	2.24"	5/8"-18	
T00CA40042-22045A	PBCAT40 EM7/8"-1.75"	7/8"	1.75"	7/8"	1.94"	1.94"	1.75"	2.17"	5/8"-18	
T00CA40042-22089A	PBCAT40 EM7/8"-3.50"	7/8"	3.50"	7/8"	2.00"	2.00"	3.50"	2.17"	5/8"-18	
T00CA40042-22152A	PBCAT40 EM7/8"-6.00"	7/8"	6.00"	7/8"	2.00"	2.00"	6.00"	2.17"	5/8"-18	
T00CA40042-22203A	PBCAT40 EM7/8"-8.00"	7/8"	8.00"	7/8"	2.00"	2.00"	8.00"	2.17"	5/8"-18	
T00CA40042-25050A	PBCAT40 EM1"-1.97"	1"	1.97"	1"	2.25"	2.25"	1.97"	2.52"	3/4"-16	
T00CA40042-25102A	PBCAT40 EM1"-4.00"	1"	4.00"	1"	2.36"	2.36"	4.00"	2.52"	3/4"-16	
T00CA40042-25152A	PBCAT40 EM1"-6.00"	1"	6.00"	1"	2.36"	2.36"	6.00"	2.52"	3/4"-16	
T00CA40042-25203A	PBCAT40 EM1"-8.00"	1"	8.00"	1"	2.36"	2.36"	8.00"	2.52"	3/4"-16	
T00CA40042-32102A	PBCAT40 EM1 1/4"-4.00"	1 1/4"	4.00"	1 1/4"	2.52"	2.52"	4.00"	2.68"	3/4"-16	
T00CA40042-32120A	PBCAT40 EM1 1/4"-4.72"	1 1/4"	4.72"	1 1/4"	2.52"	2.52"	4.72"	2.68"	3/4"-16	
T00CA40042-32152A	PBCAT40 EM1 1/4"-6.00"	1 1/4"	6.00"	1 1/4"	2.52"	2.52"	6.00"	2.68"	3/4"-16	
T00CA40042-32203A	PBCAT40 EM1 1/4"-8.00"	1 1/4"	8.00"	1 1/4"	2.52"	2.52"	8.00"	2.68"	3/4"-16	

PBCAT50 END MILL HOLDER INCH

Order Number	Part Name	Cutter	Length	d	D	D1	L	L1	T	G
T00CA50042-06065A	PBCAT50 EM1/4"-2.56"	1/4"	2.56"	1/4"	0.79"	0.79"	2.56"	1.18"	1/4"-28	1"-8
T00CA50042-06102A	PBCAT50 EM1/4"-4.00"	1/4"	4.00"	1/4"	0.79"	0.79"	4.00"	1.18"	1/4"-28	
T00CA50042-06152A	PBCAT50 EM1/4"-6.00"	1/4"	6.00"	1/4"	0.79"	1.10"	6.00"	1.18"	1/4"-28	
T00CA50042-06203A	PBCAT50 EM1/4"-8.00"	1/4"	8.00"	1/4"	0.79"	1.10"	8.00"	1.18"	1/4"-28	
T00CA50042-08065A	PBCAT50 EM5/16"-2.56"	5/16"	2.56"	5/16"	1.00"	1.00"	2.56"	1.38"	1/4"-28	
T00CA50042-08102A	PBCAT50 EM5/16"-4.00"	5/16"	4.00"	5/16"	1.00"	1.00"	4.00"	1.38"	1/4"-28	
T00CA50042-08152A	PBCAT50 EM5/16"-6.00"	5/16"	6.00"	5/16"	1.00"	1.34"	6.00"	1.38"	1/4"-28	
T00CA50042-08203A	PBCAT50 EM5/16"-8.00"	5/16"	8.00"	5/16"	1.00"	1.34"	8.00"	1.38"	1/4"-28	
T00CA50042-09065A	PBCAT50 EM3/8"-2.56"	3/8"	2.56"	3/8"	1.00"	1.00"	2.56"	1.54"	3/8"-24	
T00CA50042-09102A	PBCAT50 EM3/8"-4.00"	3/8"	4.00"	3/8"	1.00"	1.00"	4.00"	1.54"	3/8"-24	
T00CA50042-09152A	PBCAT50 EM3/8"-6.00"	3/8"	6.00"	3/8"	1.00"	1.34"	6.00"	1.54"	3/8"-24	
T00CA50042-09203A	PBCAT50 EM3/8"-8.00"	3/8"	8.00"	3/8"	1.00"	1.34"	8.00"	1.54"	3/8"-24	
T00CA50042-12075A	PBCAT50 EM1/2"-2.95"	1/2"	2.95"	1/2"	1.38"	1.38"	2.95"	1.73"	7/16"-20	
T00CA50042-12102A	PBCAT50 EM1/2"-4.00"	1/2"	4.00"	1/2"	1.38"	1.38"	4.00"	1.73"	7/16"-20	
T00CA50042-12152A	PBCAT50 EM1/2"-6.00"	1/2"	6.00"	1/2"	1.38"	1.38"	6.00"	1.73"	7/16"-20	
T00CA50042-12203A	PBCAT50 EM1/2"-8.00"	1/2"	8.00"	1/2"	1.38"	1.38"	8.00"	1.73"	7/16"-20	

END MILL HOLDER - 042 DIN 1835B

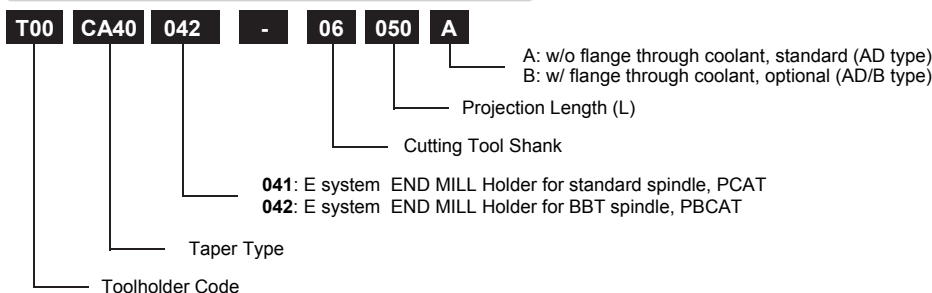
Order Number	Part Name	Cutter	Length	d	D	D1	L	L1	T	G
T00CA50042-16076A	PBCAT50 EM5/8"-3.00"	5/8"	3.00"	5/8"	1.65"	11.65"	3.00"	2.09"	9/16"-18	1"-8
T00CA50042-16102A	PBCAT50 EM5/8"-4.00"	5/8"	4.00"	5/8"	1.65"	1.65"	4.00"	2.09"	9/16"-18	
T00CA50042-16152A	PBCAT50 EM5/8"-6.00"	5/8"	6.00"	5/8"	1.65"	1.65"	6.00"	2.09"	9/16"-18	
T00CA50042-16203A	PBCAT50 EM5/8"-8.00"	5/8"	8.00"	5/8"	1.65"	1.65"	8.00"	2.09"	9/16"-18	
T00CA50042-19076A	PBCAT50 EM3/4"-3.00"	3/4"	3.00"	3/4"	1.89"	1.89"	3.00"	2.24"	5/8"-18	
T00CA50042-19102A	PBCAT50 EM3/4"-4.00"	3/4"	4.00"	3/4"	1.89"	1.89"	4.00"	2.24"	5/8"-18	
T00CA50042-19152A	PBCAT50 EM3/4"-6.00"	3/4"	6.00"	3/4"	1.89"	1.89"	6.00"	2.24"	5/8"-18	
T00CA50042-19203A	PBCAT50 EM3/4"-8.00"	3/4"	8.00"	3/4"	1.89"	1.89"	8.00"	2.24"	5/8"-18	
T00CA50042-22089A	PBCAT50 EM7/8"-3.50"	7/8"	3.50"	7/8"	2.00"	2.00"	3.50"	2.17"	5/8"-18	
T00CA50042-22152A	PBCAT50 EM7/8"-6.00"	7/8"	6.00"	7/8"	2.00"	2.00"	6.00"	2.17"	5/8"-18	
T00CA50042-22203A	PBCAT50 EM7/8"-8.00"	7/8"	8.00"	7/8"	2.00"	2.00"	8.00"	2.17"	5/8"-18	
T00CA50042-25102A	PBCAT50 EM1"-4.00"	1"	4.00"	1"	2.25"	2.25"	4.00"	2.52"	3/4"-16	
T00CA50042-25152A	PBCAT50 EM1"-6.00"	1"	6.00"	1"	2.36"	2.36"	6.00"	2.52"	3/4"-16	
T00CA50042-25203A	PBCAT50 EM1"-8.00"	1"	8.00"	1"	2.36"	2.36"	8.00"	2.52"	3/4"-16	
T00CA50042-32102A	PBCAT50 EM1 1/4"-4.00"	1 1/4"	4.00"	1 1/4"	2.52"	2.52"	4.00"	2.68"	3/4"-16	
T00CA50042-32152A	PBCAT50 EM1 1/4"-6.00"	1 1/4"	6.00"	1 1/4"	2.52"	2.52"	6.00"	2.68"	3/4"-16	
T00CA50042-32203A	PBCAT50 EM1 1/4"-8.00"	1 1/4"	8.00"	1 1/4"	2.52"	2.52"	8.00"	2.68"	3/4"-16	
T00CA50042-38102A	PBCAT50 EM1 1/2"-4.00"	1 1/2"	4.00"	1 1/2"	2.75"	2.75"	4.00"	2.38"	3/4"-16	
T00CA50042-38152A	PBCAT50 EM1 1/2"-6.00"	1 1/2"	6.00"	1 1/2"	2.75"	2.75"	6.00"	2.38"	3/4"-16	
T00CA50042-38203A	PBCAT50 EM1 1/2"-8.00"	1 1/2"	8.00"	1 1/2"	2.75"	2.75"	8.00"	2.38"	3/4"-16	
T00CA50042-50152A	PBCAT50 EM2"-6.00"	2"	6.00"	2"	3.75"	3.75"	6.00"	3.38"	1"-14	
T00CA50042-50203A	PBCAT50 EM2"-8.00"	2"	8.00"	2"	3.75"	3.75"	8.00"	3.38"	1"-14	

ACCESSORIES:

Set Screw for End Mill Holder INCH		
Order Number	Part Name	End Mill
T06EM03-CA	EM1/8", Set Screw	1/8"
T06EM05-CA	EM3/16", Set Screw	3/16"
T06EM06-CA	EM1/4", Set Screw	1/4"
T06EM09-CA	EM3/8", Set Screw	3/8"
T06EM12-CA	EM1/2", Set Screw	1/2"
T06EM16-CA01	EM5/8", Set Screw01	5/8"
T06EM16-CA02	EM5/8", Set Screw02	5/8"
T06EM19-CA01	EM3/4", Set Screw01	3/4"
T06EM19-CA02	EM3/4", Set Screw02	3/4"
T06EM25-CA01	EM1", Set Screw01	1", 1 1/4"
T06EM25-CA02	EM1", Set Screw02	1", 1 1/4"
T06EM25-CA03	EM1", Set Screw03	1", 1 1/4"
T06EM38-CA	EM1 1/2" Set Screw	1 1/2"
T06EM50-CA	EM 2" Set Screw	2"



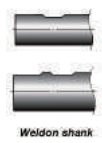
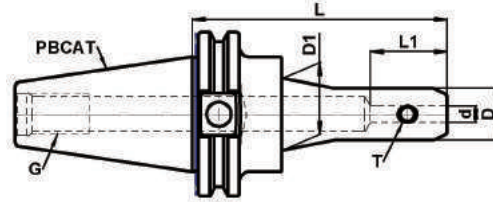
Order Number Instruction



END MILL HOLDER - 042 DIN 1835B

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



PBCAT40 END MILL HOLDER METRIC

Order Number	Part Name	Cutter mm	Length	d mm	D	D1	L	L1	T	G
T00CA40042B06065A	PBCAT40 EM06-2.56"	6	2.56"	6	0.79"	0.79"	2.56"	1.18"	1/4"-28	5/8"-11
T00CA40042B06102A	PBCAT40 EM06-4.00"	6	4.00"	6	0.79"	0.79"	4.00"	1.18"	1/4"-28	
T00CA40042B08063A	PBCAT40 EM08-2.50"	8	2.50"	8	1.00"	1.00"	2.50"	1.38"	1/4"-28	
T00CA40042B08102A	PBCAT40 EM08-4.00"	8	4.00"	8	1.00"	1.00"	4.00"	1.38"	1/4"-28	
T00CA40042B10065A	PBCAT40 EM10-2.56"	10	2.50"	10	1.00"	1.00"	2.50"	1.54"	3/8"-24	
T00CA40042B10102A	PBCAT40 EM10-4.00"	10	4.00"	10	1.00"	1.00"	4.00"	1.54"	3/8"-24	
T00CA40042B12065A	PBCAT40 EM12-2.56"	12	2.50"	12	1.38"	1.38"	2.50"	1.73"	7/16"-20	
T00CA40042B12102A	PBCAT40 EM12-4.00"	12	4.00"	12	1.38"	1.38"	4.00"	1.73"	7/16"-20	
T00CA40042B16065A	PBCAT40 EM16-2.56"	16	2.56"	16	1.65"	1.65"	2.56"	2.09"	9/16"-18	
T00CA40042B16102A	PBCAT40 EM16-4.00"	16	4.00"	16	1.65"	1.65"	4.00"	2.09"	9/16"-18	
T00CA40042B20065A	PBCAT40 EM20-2.56"	20	2.56"	20	1.75"	1.75"	2.56"	2.24"	5/8"-18	
T00CA40042B20102A	PBCAT40 EM20-4.00"	20	4.00"	20	1.75"	1.75"	4.00"	2.24"	5/8"-18	
T00CA40042B25102A	PBCAT40 EM25-4.00"	25	4.00"	25	2.36"	2.36"	4.00"	2.52"	3/4"-16	
T00CA40042B32120A	PBCAT40 EM32-4.72"	32	4.72"	32	2.52"	2.52"	4.72"	2.68"	3/4"-16	

PBCAT50 END MILL HOLDER METRIC

Order Number	Part Name	Cutter mm	Length	d mm	D	D1	L	L1	T	G
T00CA50042B06065A	PBCAT50 EM06-2.56"	6	2.56"	6	0.79"	0.79"	2.56"	1.18"	1/4"-28	1"-8
T00CA50042B06102A	PBCAT50 EM06-4.00"	6	4.00"	6	0.79"	0.79"	4.00"	1.18"	1/4"-28	
T00CA50042B08065A	PBCAT50 EM08-2.56"	8	2.56"	8	1.00"	1.00"	2.56"	1.38"	1/4"-28	
T00CA50042B08102A	PBCAT50 EM08-4.00"	8	4.00"	8	1.00"	1.00"	4.00"	1.38"	1/4"-28	
T00CA50042B10065A	PBCAT50 EM10-2.56"	10	2.50"	10	1.00"	1.00"	2.50"	1.54"	3/8"-24	
T00CA50042B10102A	PBCAT50 EM10-4.00"	10	4.00"	10	1.00"	1.00"	4.00"	1.54"	3/8"-24	
T00CA50042B12075A	PBCAT50 EM12-2.95"	12	2.95"	12	1.38"	1.38"	2.95"	1.73"	7/16"-20	
T00CA50042B12102A	PBCAT50 EM12-4.00"	12	4.00"	12	1.38"	1.38"	4.00"	1.73"	7/16"-20	
T00CA50042B16076A	PBCAT50 EM16-3.00"	16	3.00"	16	1.65"	1.65"	3.00"	2.09"	9/16"-18	
T00CA50042B16102A	PBCAT50 EM16-4.00"	16	4.00"	16	1.65"	1.65"	4.00"	2.09"	9/16"-18	
T00CA50042B20076A	PBCAT50 EM20-3.00"	20	3.00"	20	1.75"	1.75"	3.00"	2.24"	5/8"-18	
T00CA50042B20102A	PBCAT50 EM20-4.00"	20	4.00"	20	1.75"	1.75"	4.00"	2.24"	5/8"-18	
T00CA50042B25102A	PBCAT50 EM25-4.00"	25	4.00"	25	2.36"	2.36"	4.00"	2.52"	3/4"-16	
T00CA50042B32102A	PBCAT50 EM32-4.00"	32	4.00"	32	2.52"	2.52"	4.00"	2.68"	3/4"-16	

ACCESSORIES:

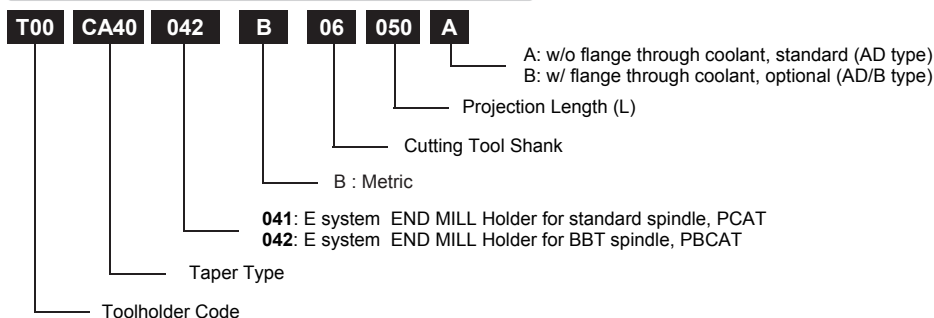
Set Screw for End Mill Holder METRIC

Order Number	Part Name	End Mill
T06EM03-CA	EM1/8",Set Screw	1/8"
T06EM05-CA	EM3/16",Set Screw	3/16"
T06EM06-CA	EM1/4",Set Screw	1/4"
T06EM09-CA	EM3/8",Set Screw	3/8"
T06EM12-CA	EM1/2",Set Screw	1/2"
T06EM16-CA01	EM5/8",Set Screw01	5/8"
T06EM16-CA02	EM5/8",Set Screw02	5/8"
T06EM19-CA01	EM3/4",Set Screw01	3/4"
T06EM19-CA02	EM3/4",Set Screw02	3/4"
T06EM25-CA01	EM1",Set Screw01	1", 1 1/4"
T06EM25-CA02	EM1",Set Screw02	1", 1 1/4"
T06EM25-CA03	EM1",Set Screw03	1", 1 1/4"
T06EM38-CA	EM1 1/2" Set Screw	1 1/2"
T06EM50-CA	EM 2" Set Screw	2"



P168~169

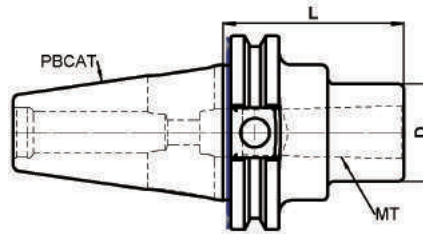
Order Number Instruction



MORSE TAPER HOLDER - 072 DIN 6383

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.00018")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



PBCAT40 MORSE TAPER HOLDER INCH

Order Number	Part Name	MT	Length	MT	D	L
T00CA40072-01045A	PBCAT40 MK1-1.75"	MT1	1.75"	MT1	1.00"	1.75"
T00CA40072-02060A	PBCAT40 MK2-2.36"	MT2	2.36"	MT2	1.25"	2.36"
T00CA40072-03076A	PBCAT40 MK3-3.00"	MT3	3.00"	MT3	1.57"	3.00"
T00CA40072-04090A	PBCAT40 MK4-3.54"	MT4	3.54"	MT4	1.89"	3.54"

PBCAT50 MORSE TAPER HOLDER INCH

Order Number	Part Name	MT	Length	MT	D	L
T00CA50072-01045A	PBCAT50 MK1-1.75"	MT1	1.75"	MT1	1.00"	1.75"
T00CA50072-02060A	PBCAT50 MK2-2.36"	MT2	2.36"	MT2	1.25"	2.36"
T00CA50072-03065A	PBCAT50 MK3-2.56"	MT3	2.56"	MT3	1.57"	2.56"
T00CA50072-04076A	PBCAT50 MK4-3.54"	MT4	3.54"	MT4	1.89"	3.54"
T00CA50072-05105A	PBCAT50 MK5-4.13"	MT5	4.13"	MT5	2.48"	4.13"



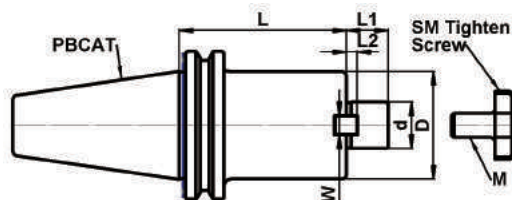
Order Number Instruction

T00	CA40	072	-	M2	050	A
Toolholder Code	Taper Type	071: E system Morse Taper Holder for standard spindle, PCAT 072: E system Morse Taper Holder for BBT spindle, PBCAT	Morse Taper Size	Projection Length (L)	A: w/o flange through coolant, standard (AD type) B: w/ flange through coolant, optional (AD/B type)	

SHELL MILLING HOLDER - 122

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0018")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm


PBCAT40 SHELL MILLING HOLDER INCH

Order Number	Part Name	d	L	D	L1	L2	W	M
T00CA40122-19035A	PBCAT40 SM 3/4"-1.38"	3/4"	1.38"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40122-19070A	PBCAT40 SM 3/4"-2.75"	3/4"	2.75"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40122-19102A	PBCAT40 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40122-19152A	PBCAT40 SM 3/4"-6.00"	3/4"	6.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40122-19203A	PBCAT40 SM 3/4"-8.00"	3/4"	8.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40122-25051A	PBCAT40 SM 1"-2.00"	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA40122-25102A	PBCAT40 SM 1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA40122-25152A	PBCAT40 SM 1"-6.00"	1"	6.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA40122-25203A	PBCAT40 SM 1"-8.00"	1"	8.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA40122-32051A	PBCAT40 SM 1 1/4"-2.00"	1 1/4"	2.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA40122-32102A	PBCAT40 SM 1 1/4"-4.00"	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA40122-32152A	PBCAT40 SM 1 1/4"-6.00"	1 1/4"	6.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA40122-38061A	PBCAT40 SM 1 1/2"-2.40"	1 1/2"	2.40"	3.38"	0.94"	0.35"	5/8"	3/4"-16

PBCAT50 SHELL MILLING HOLDER INCH

Order Number	Part Name	d	L	D	L1	L2	W	M
T00CA50122-19051A	PBCAT50 SM 3/4"-2.00"	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50122-19102A	PBCAT50 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50122-19152A	PBCAT50 SM 3/4"-6.00"	3/4"	6.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50122-19203A	PBCAT50 SM 3/4"-8.00"	3/4"	8.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50122-19051A01	PBCAT50 SMB 3/4"-2.00"	3/4"	2.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00CA50122-19102A01	PBCAT50 SMB 3/4"-4.00"	3/4"	4.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00CA50122-19152A01	PBCAT50 SMB 3/4"-6.00"	3/4"	6.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00CA50122-19203A01	PBCAT50 SMB 3/4"-8.00"	3/4"	8.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00CA50122-25051A	PBCAT50 SM 1"-2.00"	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50122-25102A	PBCAT50 SM 1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50122-25152A	PBCAT50 SM 1"-6.00"	1"	6.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50122-25203A	PBCAT50 SM 1"-8.00"	1"	8.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50122-25051A01	PBCAT50 SMB 1"-2.00"	1"	2.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00CA50122-25102A01	PBCAT50 SMB 1"-4.00"	1"	4.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00CA50122-25152A01	PBCAT50 SMB 1"-6.00"	1"	6.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00CA50122-25203A01	PBCAT50 SMB 1"-8.00"	1"	8.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00CA50122-32051A	PBCAT50 SM 1 1/4"-2.00"	1 1/4"	2.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50122-32102A	PBCAT50 SM 1 1/4"-4.00"	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50122-32152A	PBCAT50 SM 1 1/4"-6.00"	1 1/4"	6.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50122-32203A	PBCAT50 SM 1 1/4"-8.00"	1 1/4"	8.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50122-32051A01	PBCAT50 SMB 1 1/4"-2.00"	1 1/4"	2.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00CA50122-32102A01	PBCAT50 SMB 1 1/4"-4.00"	1 1/4"	4.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00CA50122-32152A01	PBCAT50 SMB 1 1/4"-6.00"	1 1/4"	6.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00CA50122-32203A01	PBCAT50 SMB 1 1/4"-8.00"	1 1/4"	8.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00CA50122-38061A	PBCAT50 SM 1 1/2"-2.40"	1 1/2"	2.40"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00CA50122-38102A	PBCAT50 SM 1 1/2"-4.00"	1 1/2"	4.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00CA50122-38061A01	PBCAT50 SMB 1 1/2"-2.40"	1 1/2"	2.40"	3.90"	0.94"	0.35"	5/8"	3/4"-16
T00CA50122-38102A01	PBCAT50 SMB 1 1/2"-4.00"	1 1/2"	4.00"	3.90"	0.94"	0.35"	5/8"	3/4"-16
T00CA50122-50061A	PBCAT50 SM 2"-2.40"	2"	2.40"	4.88"	0.94"	0.39"	3/4"	1"-14
T00CA50122-50102A	PBCAT50 SM 2"-4.00"	2"	4.00"	4.88"	0.94"	0.39"	3/4"	1"-14

ACCESSORIES:

LOCK SCREW INCH		
Order Number	Part Name	Pilot Size
T06SM19-CAT	SM3/4" Lock Screw	SM3/4"
T06SM25-CAT	SM1" Lock Screw	SM1"
T06SM32-CAT	SM1 1/4" Lock Screw	SM1 1/4"
T06SM38-CAT	SM1 1/2" Lock Screw	SM1 1/2"
T06SM50-CAT	SM2" Lock Screw	SM2"



DRIVING KEY INCH		
Order Number	Part Name	Pilot Size
T10SM19	SM3/4" Driving Key	SM3/4"
T10SM25.4	SM1" Driving Key	SM1"
T10SM31	SM1 1/4" Driving Key	SM1 1/4"
T10SM38	SM1 1/2" Driving Key	SM1 1/2"
T10SM50	SM2" Driving Key	SM2"
T10SM63	SM2 1/2" Driving Key	SM2 1/2"


Order Number Instruction

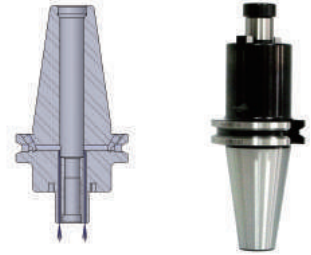
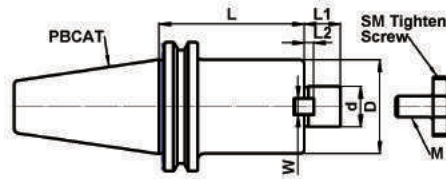
T00	CA40	122	-	16	045	A	
							A: w/o flange through coolant, standard (AD type) B: w/ flange through coolant, optional (AD/B type)
							Projection Length (L)
							Pilot Size
							121: E system shell milling Holder for standard spindle, PCAT 122: E system shell milling Holder for BBT spindle, PBCAT
							Taper Type
							Toolholder Code

SHELL MILLING HOLDER COOLANT SLOT - 132

COOLANT SLOT

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat runout: 0.005mm(0.0002")
- Balance: G6.3 25000rpm
Option to G2.5 25000rpm

**PBCAT40 SHELL MILLING HOLDER COOLANT SLOT INCH**

Order Number	Part Name	d	L	D	L1	L2	W	M
T00CA40132-19035A	PBCAT40 SM 3/4"-1.38"J	3/4"	1.38"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40132-19070A	PBCAT40 SM 3/4"-2.75"J	3/4"	2.75"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40132-19102A	PBCAT40 SM 3/4"-4.00"J	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40132-19152A	PBCAT40 SM 3/4"-6.00"J	3/4"	6.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40132-19203A	PBCAT40 SM 3/4"-8.00"J	3/4"	8.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA40132-25051A	PBCAT40 SM 1"-2.00"J	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA40132-25102A	PBCAT40 SM 1"-4.00"J	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA40132-25152A	PBCAT40 SM 1"-6.00"J	1"	6.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA40132-25203A	PBCAT40 SM 1"-8.00"J	1"	8.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA40132-32051A	PBCAT40 SM 1 1/4"-2.00"J	1 1/4"	2.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA40132-32102A	PBCAT40 SM 1 1/4"-4.00"J	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA40132-32152A	PBCAT40 SM 1 1/4"-6.00"J	1 1/4"	6.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA40132-38061A	PBCAT40 SM 1 1/2"-2.40"J	1 1/2"	2.40"	3.38"	0.94"	0.35"	5/8"	3/4"-16

PBCAT50 SHELL MILLING HOLDER COOLANT SLOT INCH

Order Number	Part Name	d	L	D	L1	L2	W	M
T00CA50132-19051A	PBCAT50 SM 3/4"-2.00"J	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50132-19102A	PBCAT50 SM 3/4"-4.00"J	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50132-19152A	PBCAT50 SM 3/4"-6.00"J	3/4"	6.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50132-19203A	PBCAT50 SM 3/4"-8.00"J	3/4"	8.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50132-19254A	PBCAT50 SM 3/4"-10.00"J	3/4"	10.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50132-19381A	PBCAT50 SM 3/4"-15.00"J	3/4"	15.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00CA50132-25051A	PBCAT50 SM 1"-2.00"J	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50132-25102A	PBCAT50 SM 1"-4.00"J	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50132-25152A	PBCAT50 SM 1"-6.00"J	1"	6.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50132-25203A	PBCAT50 SM 1"-8.00"J	1"	8.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50132-25254A	PBCAT50 SM 1"-10.00"J	1"	10.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50132-25381A	PBCAT50 SM 1"-15.00"J	1"	15.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00CA50132-32051A	PBCAT50 SM 1 1/4"-2.00"J	1 1/4"	2.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50132-32102A	PBCAT50 SM 1 1/4"-4.00"J	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50132-32152A	PBCAT50 SM 1 1/4"-6.00"J	1 1/4"	6.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50132-32203A	PBCAT50 SM 1 1/4"-8.00"J	1 1/4"	8.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50132-32254A	PBCAT50 SM 1 1/4"-10.00"J	1 1/4"	10.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50132-32381A	PBCAT50 SM 1 1/4"-15.00"J	1 1/4"	15.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00CA50132-38061A	PBCAT50 SM 1 1/2"-2.40"J	1 1/2"	2.40"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00CA50132-38102A	PBCAT50 SM 1 1/2"-4.00"J	1 1/2"	4.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00CA50132-50061A	PBCAT50 SM 2"-2.40"J	2"	2.40"	4.88"	0.94"	0.39"	3/4"	1"-14
T00CA50132-50102A	PBCAT50 SM 2"-4.00"J	2"	4.00"	4.88"	0.94"	0.39"	3/4"	1"-14

ACCESSORIES:

DRIVING KEY INCH		
Order Number	Part Name	Pilot Size
T10SM19	SM3/4" Driving Key	SM3/4"
T10SM25.4	SM1" Driving Key	SM1"
T10SM31	SM1 1/4" Driving Key	SM1 1/4"
T10SM38	SM1 1/2" Driving Key	SM1 1/2"
T10SM50	SM2" Driving Key	SM2"
T10SM63	SM2 1/2" Driving Key	SM2 1/2"



LOCK SCREW INCH		
Order Number	Part Name	Pilot Size
T06SM19-CAT	SM3/4" Lock Screw	SM3/4"
T06SM25-CAT	SM1" Lock Screw	SM1"
T06SM32-CAT	SM1 1/4" Lock Screw	SM1 1/4"
T06SM38-CAT	SM1 1/2" Lock Screw	SM1 1/2"
T06SM50-CAT	SM2" Lock Screw	SM2"

**Order Number Instruction**
T00 CA40 132 - 16 045 A

A: w/o flange through coolant, standard (AD type)
 B: w/ flange through coolant, optional (AD/B type)

Projection Length (L)

Pilot Size

131: E system Coolant type shell milling Holder for standard spindle, PCAT
132: E system Coolant type shell milling Holder for BBT spindle, PBCAT

Taper Type

Toolholder Code

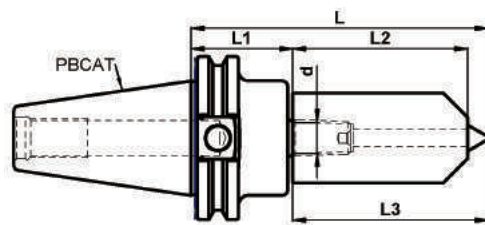


P168-169

DRILL CHUCK HOLDER - 142

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Balance: G6.3 25000rpm
Option to G2.5 25000rpm


PBCAT40 DRILL CHUCK HOLDER INCH

Order Number	Part Name	Mount	Length	Capabilities	d	L	L1	L2	L3
T00CA40142B08109C-B12	PBCAT40 DC08-4.30"-B12	B12	4.30"	0.3-8 1/64-5/16"	B12	4.30"	1.625"	2.68"	2.99"
T00CA40142B10121C-B12	PBCAT40 DC10-4.77"-B12	B12	4.77"	0.3-10 1/64-3/8"	B12	4.77"	1.625"	3.15"	3.62"
T00CA40142B13131C-B12	PBCAT40 DC13-5.17"-B12	B12	5.17"	0.3-13 1/64-1/2"	B12	5.17"	1.625"	3.54"	4.02"
T00CA40142B16138C-B16	PBCAT40 DC16-5.44"-B16	B16	5.44"	3-16 1/8"-5/8"	B16	5.44"	1.625"	3.82"	4.33"
T00CA40142-09121C-JT2	PBCAT40 DC3/8"-4.77"-JT2	JT2	4.77"	0.3-10 1/64-3/8"	B12	4.77"	1.625"	3.15"	3.62"
T00CA40142-12131C-JT2	PBCAT40 DC1/2"-5.17"-JT2	JT2	5.17"	0.3-13 1/64-1/2"	B12	5.17"	1.625"	3.54"	4.02"
T00CA40142-16127C-JT6	PBCAT40 DC5/8"-5.44"-JT6	JT6	5.44"	3-16 1/8"-5/8"	B16	5.44"	1.625"	3.82"	4.33"

PBCAT50 DRILL CHUCK HOLDER INCH

Order Number	Part Name	Mount	Length	Capabilities	d	L	L1	L2	L3
T00CA50142B13131C-B12	PBCAT50 DC13-5.17"-B12	B12	5.17"	0.3-13 1/64-1/2"	B12	5.17"	1.625"	3.54"	4.02"
T00CA50142B16138C-B16	PBCAT50 DC16-5.44"-B16	B16	5.44"	3-16 1/8"-5/8"	B16	5.44"	1.625"	3.82"	4.33"
T00CA50142-12132C-JT2	PBCAT50 DC1/2"-5.17"-JT2	JT2	5.17"	0.3-13 1/64-1/2"	B12	5.17"	1.625"	3.54"	4.02"
T00CA50142-16139C-JT6	PBCAT50 DC5/8"-5.44"-JT6	JT6	5.44"	3-16 1/8"-5/8"	B16	5.44"	1.625"	3.82"	4.33"

ACCESSORIES:
DRILL CHUCK WRENCH

Order Number	Part Name	Type	DC size
T07DC08-C	DC08 Wrench	C Type	8, 5/16"
T07DC10-C	DC10 Wrench	C Type	10, 3/8"
T07DC13-C	DC13 Wrench	C Type	13, 1/2"
T07DC16-C	DC16 Wrench	C Type	16, 5/8"



P168-169

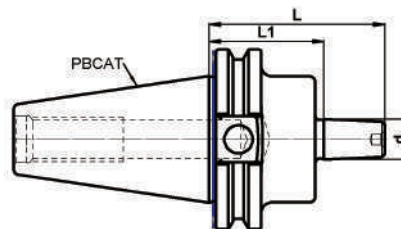
Order Number Instruction

T00	CA40	142	-	16	127	C
C: w/o flange through coolant and w/o center coolant						
Projection Length (L)						
Clamping Range						
- : Inch dimension(inch) B: metric dimension mm						
141: E system drill chuck Holder for standard spindle, PCAT 142: E system drill chuck Holder for BBT spindle, PBCAT						
Taper Type						
Toolholder Code						

DRILL CHUCK ARBOR - 142

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0018")
- Balance: G6.3 25000rpm
Option to G2.5 25000rpm



PBCAT40 DRILL CHUCK ARBOR INCH

Order Number	Part Name	Chuck Mount	Length	L	L1	d	Taper
T00CA40142B12041C	PBCAT40 B12-1.625"	B12	1.625"	2.33"	1.625"	0.47"	B12
T00CA40142B16041C	PBCAT40 B16-1.625"	B16	1.625"	2.53"	1.625"	0.63"	B16
T00CA40142-J2041C	PBCAT40 JT2-1.625"	JT2	1.625"	2.53"	1.625"	0.56"	JT2
T00CA40142-J6041C	PBCAT40 JT6-1.625"	JT6	1.625"	2.58"	1.625"	0.68"	JT6

PBCAT50 DRILL CHUCK ARBOR INCH

Order Number	Part Name	Chuck Mount	Length	L	L1	d	Taper
T00CA50142B12041C	PBCAT50 B12-1.625"	B12	1.625"	2.33"	1.625"	0.47"	B12
T00CA50142B16041C	PBCAT50 B16-1.625	B16	1.625"	2.53"	1.625"	0.63"	B16
T00CA50142-J2041C	PBCAT50 JT2-1.625"	JT2	1.625"	2.53"	1.625"	0.56"	JT2
T00CA50142-J6041C	PBCAT50 JT6-1.625"	JT6	1.625"	2.58"	1.625"	0.68"	JT6



P168-169

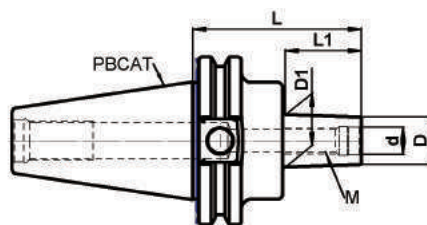
Order Number Instruction

T00	CA40	142	B16	127	C
					C: w/o flange through coolant and w/o center coolant
					Projection Length (L)
					Taper Mount
					141: E system drill chuck Holder for standard spindle, PCAT 142: E system drill chuck Holder for BBT spindle, PBCAT
					Taper Type
					Toolholder Code

SCREW-IN HOLDER - 202

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 $\pm$ 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm


PBCAT40 SCREW-IN HOLDER INCH

Order Number	Part Name	M	L	D	D1	d	L1
T00CA40202-08040A	PBCAT40 M08-1.58"	M8	1.58"	0.59"	0.59"	0.34"	0.20"
T00CA40202-08065A	PBCAT40 M08-2.56"	M8	2.56"	0.59"	0.63"	0.34"	1.37"
T00CA40202-08087A	PBCAT40 M08-3.43"	M8	3.43"	0.51"	0.91"	0.34"	1.97"
T00CA40202-08102A	PBCAT40 M08-4.00"	M8	4.00"	0.51"	0.91"	0.34"	1.97"
T00CA40202-08127A	PBCAT40 M08-5.00"	M8	5.00"	0.51"	0.91"	0.34"	1.97"
T00CA40202-08152A	PBCAT40 M08-6.00"	M8	6.00"	0.51"	0.91"	0.34"	1.97"
T00CA40202-10040A	PBCAT40 M10-1.58"	M10	1.58"	0.71"	0.71"	0.41"	0.20"
T00CA40202-10065A	PBCAT40 M10-2.56"	M10	2.56"	0.71"	0.78"	0.41"	1.37"
T00CA40202-10087A	PBCAT40 M10-3.43"	M10	3.43"	0.71"	0.99"	0.41"	1.97"
T00CA40202-10102A	PBCAT40 M10-4.00"	M10	4.00"	0.71"	0.99"	0.41"	1.97"
T00CA40202-10127A	PBCAT40 M10-5.00"	M10	5.00"	0.71"	0.99"	0.41"	1.97"
T00CA40202-10152A	PBCAT40 M10-6.00"	M10	6.00"	0.71"	0.99"	0.41"	1.97"
T00CA40202-12040A	PBCAT40 M12-1.58"	M12	1.58"	0.83"	0.83"	0.49"	0.20"
T00CA40202-12065A	PBCAT40 M12-2.56"	M12	2.56"	0.83"	0.90"	0.49"	1.37"
T00CA40202-12087A	PBCAT40 M12-3.43"	M12	3.43"	0.83"	0.95"	0.49"	1.97"
T00CA40202-12102A	PBCAT40 M12-4.00"	M12	4.00"	0.83"	0.95"	0.49"	1.97"
T00CA40202-12127A	PBCAT40 M12-5.00"	M12	5.00"	0.83"	1.38"	0.49"	3.54"
T00CA40202-12152A	PBCAT40 M12-6.00"	M12	6.00"	0.83"	1.38"	0.49"	3.54"
T00CA40202-12203A	PBCAT40 M12-8.00"	M12	8.00"	0.83"	1.38"	0.49"	3.54"
T00CA40202-16040A	PBCAT40 M16-1.58"	M16	1.58"	1.14"	1.14"	0.67"	0.20"
T00CA40202-16065A	PBCAT40 M16-2.56"	M16	2.56"	1.14"	1.34"	0.67"	1.37"
T00CA40202-16087A	PBCAT40 M16-3.43"	M16	3.43"	1.14"	1.34"	0.67"	1.97"
T00CA40202-16102A	PBCAT40 M16-4.00"	M16	4.00"	1.14"	1.34"	0.67"	1.97"
T00CA40202-16127A	PBCAT40 M16-5.00"	M16	5.00"	1.14"	1.54"	0.67"	3.54"
T00CA40202-16152A	PBCAT40 M16-6.00"	M16	6.00"	1.14"	1.54"	0.67"	3.54"
T00CA40202-16203A	PBCAT40 M16-8.00"	M16	8.00"	1.14"	1.54"	0.67"	3.54"

PBCAT50 SCREW-IN HOLDER INCH

Order Number	Part Name	M	L	D1	D2	d	L1
T00CA50202-08087A	PBCAT50 M08-3.43"	M8	3.43"	0.51"	0.91"	0.49"	1.97"
T00CA50202-08102A	PBCAT50 M08-4.00"	M8	4.00"	0.51"	0.91"	0.49"	1.97"
T00CA50202-08127A	PBCAT50 M08-5.00"	M8	5.00"	0.51"	0.91"	0.49"	1.97"
T00CA50202-10087A	PBCAT50 M10-3.43"	M10	3.43"	0.71"	0.99"	0.49"	1.97"
T00CA50202-10102A	PBCAT50 M10-4.00"	M10	4.00"	0.71"	0.99"	0.49"	1.97"
T00CA50202-10127A	PBCAT50 M10-5.00"	M10	5.00"	0.71"	0.99"	0.49"	1.97"
T00CA50202-12102A	PBCAT50 M12-4.00"	M12	4.00"	0.83"	0.95"	0.49"	1.97"
T00CA50202-12127A	PBCAT50 M12-5.00"	M12	5.00"	0.83"	1.38"	0.49"	3.54"
T00CA50202-12152A	PBCAT50 M12-6.00"	M12	6.00"	0.83"	1.38"	0.49"	3.54"
T00CA50202-12203A	PBCAT50 M12-8.00"	M12	8.00"	0.83"	1.38"	0.49"	3.54"
T00CA50202-16102A	PBCAT50 M16-4.00"	M16	4.00"	1.14"	1.34"	0.67"	1.97"
T00CA50202-16127A	PBCAT50 M16-5.00"	M16	5.00"	1.14"	1.54"	0.67"	3.54"
T00CA50202-16152A	PBCAT50 M16-6.00"	M16	6.00"	1.14"	1.54"	0.67"	3.54"
T00CA50202-16203A	PBCAT50 M16-8.00"	M16	8.00"	1.14"	1.54"	0.67"	3.54"

Note: Order excludes Screw-in cutter.

Order Number Instruction

T00	CA40	202	-	08	087	A
Toolholder Code	Taper Type	201: E system screw -in Holder for standard spindle, PCAT 202: E system screw -in Holder for BBT spindle, PBCAT	Projection Length (L)	Connecting Thread Size For Cutter		A: w/o flange through coolant, standard (AD type) B: w/ flange through coolant, optional (AD/B type)

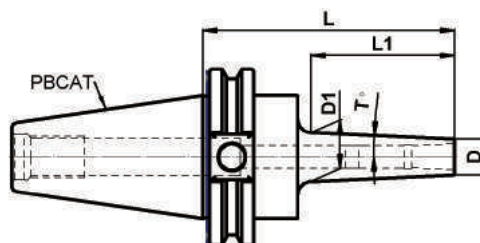


P168~169

SLIM COLLET CHUCK - 212

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000rpm
Option to G2.5 25000rpm



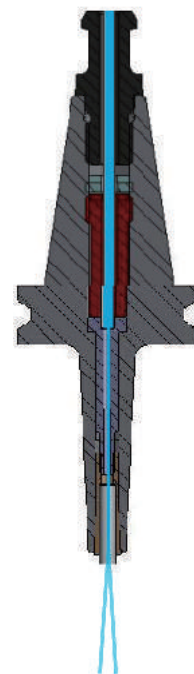
PBCAT40 SLIM COLLET CHUCK INCH

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1
T00CA40212-06102A	PBCAT40 HC06-4.00"	HC06	4.00"	4.00"	0.51"	0.75"	2.5	2.82"
T00CA40212-06152A	PBCAT40 HC06-6.00"	HC06	6.00"	6.00"	0.51"	0.94"	2.5	4.82"
T00CA40212-06203A	PBCAT40 HC06-8.00"	HC06	8.00"	8.00"	0.51"	1.10"	2.5	6.82"
T00CA40212-10102A	PBCAT40 HC10-4.00"	HC10	4.00"	4.00"	0.79"	1.10"	3.0	2.82"
T00CA40212-10152A	PBCAT40 HC10-6.00"	HC10	6.00"	6.00"	0.79"	1.34"	3.0	4.82"
T00CA40212-10203A	PBCAT40 HC10-8.00"	HC10	8.00"	8.00"	0.79"	1.50"	3.0	6.82"
T00CA40212-16102A	PBCAT40 HC16-4.00"	HC16	4.00"	4.00"	1.26"	1.54"	3.0	2.82"
T00CA40212-16152A	PBCAT40 HC16-6.00"	HC16	6.00"	6.00"	1.26"	1.77"	3.0	4.82"
T00CA40212-16203A	PBCAT40 HC16-8.00"	HC16	8.00"	8.00"	1.26"	1.97"	3.0	6.82"

PBCAT50 SLIM COLLET CHUCK INCH

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1
T00CA50212-06102A	PBCAT50 HC06-4.00"	HC06	4.00"	4.00"	0.51"	0.75"	2.5	2.82"
T00CA50212-06152A	PBCAT50 HC06-6.00"	HC06	6.00"	6.00"	0.51"	0.94"	2.5	4.82"
T00CA50212-06203A	PBCAT50 HC06-8.00"	HC06	8.00"	8.00"	0.51"	1.10"	2.5	6.82"
T00CA50212-10102A	PBCAT50 HC10-4.00"	HC10	4.00"	4.00"	0.79"	1.10"	3.0	2.82"
T00CA50212-10152A	PBCAT50 HC10-6.00"	HC10	6.00"	6.00"	0.79"	1.34"	3.0	4.82"
T00CA50212-10203A	PBCAT50 HC10-8.00"	HC10	8.00"	8.00"	0.79"	1.50"	3.0	6.82"
T00CA50212-16102A	PBCAT50 HC16-4.00"	HC16	4.00"	4.00"	1.26"	1.54"	3.0	2.82"
T00CA50212-16152A	PBCAT50 HC16-6.00"	HC16	6.00"	6.00"	1.26"	1.77"	3.0	4.82"
T00CA50212-16203A	PBCAT50 HC16-8.00"	HC16	8.00"	8.00"	1.26"	1.97"	3.0	6.82"

Note: Order exclude HC collet



Order Number Instruction

T00	CA40	212	-	06	100	A
Toolholder Code	Taper Type	Projection Length (L)	HC Collet	211: E system SLIM COLLET CHUCK Holder for standard spindle, PCAT 212: E system SLIM COLLET CHUCK Holder for BBT spindle, PBCAT	A: w/o flange through coolant, standard (AD type) B: w/ flange through coolant, optional (AD/B type)	

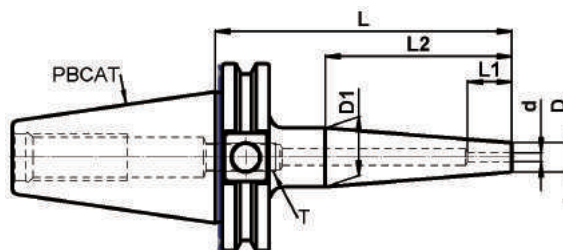


SHRINK-FIT HOLDER 4.5° - 222

4.5°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000rpm
Option to G2.5 25000rpm


PBCAT40 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00CA40222-03080A	PBCAT40 SF1/8-3.15"-4.5°	1/8"	3.15"	1/8"	1.89"	0.59"	0.39"	0.71"	S10	YES
T00CA40222-03102A	PBCAT40 SF1/8-4.00"-4.5°	1/8"	4.00"	1/8"	2.50"	0.59"	0.39"	0.79"	S10	YES
T00CA40222-03152A	PBCAT40 SF1/8-6.00"-4.5°	1/8"	6.00"	1/8"	2.50"	0.59"	0.39"	0.79"	S10	YES
T00CA40222-05080A	PBCAT40 SF3/16-3.15"-4.5°	3/16"	3.15"	3/16"	1.89"	0.79"	0.47"	0.79"	S10	YES
T00CA40222-05102A	PBCAT40 SF3/16-4.00"-4.5°	3/16"	4.00"	3/16"	2.50"	0.79"	0.47"	0.87"	S10	YES
T00CA40222-05152A	PBCAT40 SF3/16-6.00"-4.5°	3/16"	6.00"	3/16"	2.50"	0.79"	0.47"	0.87"	S10	YES
T00CA40222-06080A	PBCAT40 SF1/4-3.15"-4.5°	1/4"	3.15"	1/4"	1.77"	1.14"	0.83"	1.11"	M5	YES
T00CA40222-06102A	PBCAT40 SF1/4-4.00"-4.5°	1/4"	4.00"	1/4"	1.77"	1.14"	0.83"	1.11"	M5	YES
T00CA40222-06152A	PBCAT40 SF1/4-6.00"-4.5°	1/4"	6.00"	1/4"	1.5"	1.14"	0.83"	1.06"	M5	YES
T00CA40222-08080A	PBCAT40 SF5/16-3.54"-4.5°	5/16"	3.15"	5/16"	1.77"	0.87"	0.83"	1.11"	M6	YES
T00CA40222-08102A	PBCAT40 SF5/16-4.00"-4.5°	5/16"	4.00"	5/16"	1.77"	0.87"	0.83"	1.11"	M6	YES
T00CA40222-08152A	PBCAT40 SF5/16-6.00"-4.5°	5/16"	6.00"	5/16"	2.52"	0.87"	0.83"	1.22"	M5	YES
T00CA40222-09080A	PBCAT40 SF3/8-3.15"-4.5°	3/8"	3.15"	3/8"	1.77"	1.22"	0.94"	1.22"	M8	YES
T00CA40222-09102A	PBCAT40 SF3/8-4.00"-4.5°	3/8"	4.00"	3/8"	1.77"	1.22"	0.94"	1.22"	M8	YES
T00CA40222-09152A	PBCAT40 SF3/8-6.00"-4.5°	3/8"	6.00"	3/8"	2.52"	1.22"	0.94"	1.34"	M8	YES
T00CA40222-12080A	PBCAT40 SF1/2-3.15"-4.5°	1/2"	3.15"	1/2"	1.77"	1.42"	0.94"	1.22"	M10	YES
T00CA40222-12102A	PBCAT40 SF1/2-4.00"-4.5°	1/2"	4.00"	1/2"	1.77"	1.42"	0.94"	1.22"	M10	YES
T00CA40222-12152A	PBCAT40 SF1/2-6.00"-4.5°	1/2"	6.00"	1/2"	2.52"	1.42"	0.94"	1.34"	M10	YES
T00CA40222-16080A	PBCAT40 SF5/8-3.15"-4.5°	5/8"	3.15"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA40222-16102A	PBCAT40 SF5/8-4.00"-4.5°	5/8"	4.00"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA40222-16152A	PBCAT40 SF5/8-6.00"-4.5°	5/8"	6.00"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA40222-19080A	PBCAT40 SF3/4-3.15"-4.5°	3/4"	3.15"	3/4"	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA40222-19102A	PBCAT40 SF3/4-4.00"-4.5°	3/4"	4.00"	3/4"	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA40222-19152A	PBCAT40 SF3/4-6.00"-4.5°	3/4"	6.00"	3/4"	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA40222-22080A	PBCAT40 SF7/8-3.15"-4.5°	7/8"	3.15"	7/8"	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA40222-22102A	PBCAT40 SF7/8-4.00"-4.5°	7/8"	4.00"	7/8"	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA40222-22152A	PBCAT40 SF7/8-6.00"-4.5°	7/8"	6.00"	7/8"	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA40222-25102A	PBCAT40 SF1-4.00"-4.5°	1"	4.00"	1"	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA40222-25152A	PBCAT40 SF1-6.00"-4.5°	1"	6.00"	1"	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA40222-32102A	PBCAT40 SF1 1/4-4.00"-4.5°	1 1/4"	4.00"	1 1/4"	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA40222-32152A	PBCAT40 SF1 1/4-6.00"-4.5°	1 1/4"	6.00"	1 1/4"	2.25"	1.85"	1.73"	2.09"	M16	YES

PBCAT50 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00CA50222-03102A	PBCAT50 SF1/8"-4.00"-4.5°	1/8"	4.00"	1/8"	2.50"	0.59"	0.39"	0.79"	S10	YES
T00CA50222-03152A	PBCAT50 SF1/8"-6.00"-4.5°	1/8"	6.00"	1/8"	2.50"	0.59"	0.39"	0.79"	S10	YES
T00CA50222-05102A	PBCAT50 SF3/16"-4.00"-4.5°	3/16"	4.00"	3/16"	2.50"	0.79"	0.47"	0.87"	S10	YES
T00CA50222-05152A	PBCAT50 SF3/16"-6.00"-4.5°	3/16"	6.00"	3/16"	2.50"	0.79"	0.47"	0.87"	S10	YES
T00CA50222-06080A	PBCAT50 SF1/4"-3.15"-4.5°	1/4"	3.15"	1/4"	1.77"	1.14"	0.83"	1.11"	M5	YES
T00CA50222-06102A	PBCAT50 SF1/4"-4.00"-4.5°	1/4"	4.00"	1/4"	1.77"	1.14"	0.83"	1.11"	M5	YES
T00CA50222-06152A	PBCAT50 SF1/4"-6.00"-4.5°	1/4"	6.00"	1/4"	2.52"	1.14"	0.83"	1.22"	M5	YES
T00CA50222-06203A	PBCAT50 SF1/4"-8.00"-4.5°	1/4"	8.00"	1/4"	2.52"	1.14"	0.83"	1.22"	M5	YES
T00CA50222-08080A	PBCAT50 SF5/16"-3.15"-4.5°	5/16"	3.15"	5/16"	1.77"	0.87"	0.83"	1.11"	M6	YES
T00CA50222-08102A	PBCAT50 SF5/16"-4.00"-4.5°	5/16"	4.00"	5/16"	1.77"	0.87"	0.83"	1.11"	M6	YES
T00CA50222-08152A	PBCAT50 SF5/16"-6.00"-4.5°	5/16"	6.00"	5/16"	2.52"	0.87"	0.83"	1.22"	M6	YES
T00CA50222-08203A	PBCAT50 SF5/16"-8.00"-4.5°	5/16"	8.00"	5/16"	2.52"	0.87"	0.83"	1.22"	M6	YES
T00CA50222-09080A	PBCAT50 SF3/8"-3.15"-4.5°	3/8"	3.15"	3/8"	1.77"	1.22"	0.94"	1.22"	M8	YES
T00CA50222-09102A	PBCAT50 SF3/8"-4.00"-4.5°	3/8"	4.00"	3/8"	1.77"	1.22"	0.94"	1.22"	M8	YES
T00CA50222-09152A	PBCAT50 SF3/8"-6.00"-4.5°	3/8"	6.00"	3/8"	2.52"	1.22"	0.94"	1.34"	M8	YES
T00CA50222-09203A	PBCAT50 SF3/8"-8.00"-4.5°	3/8"	8.00"	3/8"	2.52"	1.22"	0.94"	1.34"	M8	YES

SHRINK-FIT HOLDER 4.5° - 222

4.5°

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00CA50222-12080A	PBCAT50 SF1/2"-3.15"-4.5°	1/2"	3.15"	1/2"	1.77"	1.42"	0.94"	1.22"	M10	YES
T00CA50222-12102A	PBCAT50 SF1/2"-4.00"-4.5°	1/2"	4.00"	1/2"	1.77"	1.42"	0.94"	1.22"	M10	YES
T00CA50222-12152A	PBCAT50 SF1/2"-6.00"-4.5°	1/2"	6.00"	1/2"	2.52"	1.42"	0.94"	1.34"	M10	YES
T00CA50222-12203A	PBCAT50 SF1/2"-8.00"-4.5°	1/2"	8.00"	1/2"	2.52"	1.42"	0.94"	1.34"	M10	YES
T00CA50222-16080A	PBCAT50 SF5/8"-3.15"-4.5°	5/8"	3.15"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA50222-16102A	PBCAT50 SF5/8"-4.00"-4.5°	5/8"	4.00"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA50222-16152A	PBCAT50 SF5/8"-6.00"-4.5°	5/8"	6.00"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA50222-16203A	PBCAT50 SF5/8"-8.00"-4.5°	5/8"	8.00"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA50222-19080A	PBCAT50 SF3/4"-3.15"-4.5°	3/4"	3.15"	3/4"	2.25"	1.61"	1.3"	1.65"	M16	YES
T00CA50222-19102A	PBCAT50 SF3/4"-4.00"-4.5°	3/4"	4.00"	3/4"	2.25"	1.61"	1.3"	1.65"	M16	YES
T00CA50222-19152A	PBCA50 SF3/4"-6.00"-4.5°	3/4"	6.00"	3/4"	2.25"	1.61"	1.3"	1.65"	M16	YES
T00CA50222-19203A	PBCAT50 SF3/4"-8.00"-4.5°	3/4"	8.00"	3/4"	2.25"	1.61"	1.3"	1.65"	M16	YES
T00CA50222-25102A	PBCAT50 SF1"-4.00"-4.5°	1"	4.00"	1"	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA50222-25152A	PBCAT50 SF1"-6.00"-4.5°	1"	6.00"	1"	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA50222-25203A	PBCAT50 SF1"-8.00"-4.5°	1"	8.00"	1"	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA50222-32102A	PBCAT50 SF1 1/4"-4.00"-4.5°	1 1/4"	4.00"	1 1/4"	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA50222-32152A	PBCAT50 SF1 1/4"-6.00"-4.5°	1 1/4"	6.00"	1 1/4"	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA50222-32203A	PBCAT50 SF1 1/4"-8.00"-4.5°	1 1/4"	8.00"	1 1/4"	2.25"	1.85"	1.73"	2.09"	M16	YES

Note:

1. Cutter Shank Tolerance:

1/8" and 3mm and 4mm: H4

3/16" and 5mm : H5

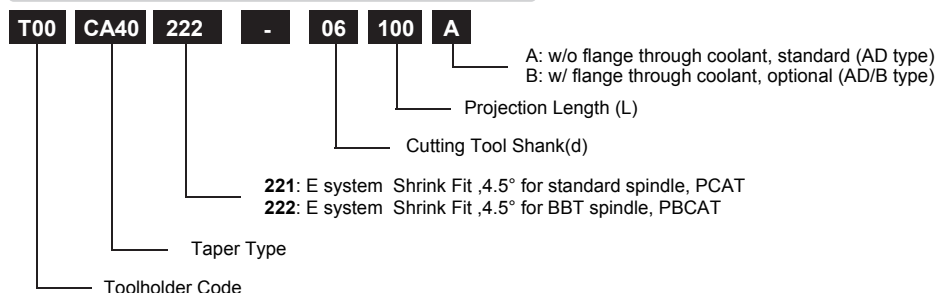
Larger than 1/4" and 6mm : H6

2. For carbide and HSS tooling.



P168~169

Order Number Instruction

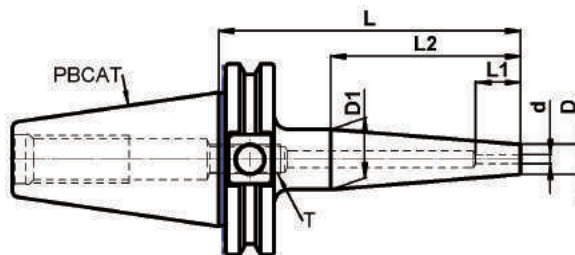


SHRINK-FIT HOLDER 4.5° - 222

4.5°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm


PBCAT40 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter mm	L	d mm	L2	L1	D	D1	T	HSS
T00CA40222B03080A	PBCAT40 SF03-3.15"-4.5°	3	3.15"	3	1.89"	0.59"	0.39"	0.71"	S10	YES
T00CA40222B03102A	PBCAT40 SF03-4.00"-4.5°	3	4.00"	3	2.50"	0.59"	0.39"	0.79"	S10	YES
T00CA40222B03152A	PBCAT40 SF03-6.00"-4.5°	3	6.00"	3	2.50"	0.59"	0.39"	0.79"	S10	YES
T00CA40222B04080A	PBCAT40 SF04-3.15"-4.5°	4	3.15"	4	1.89"	0.63"	0.47"	0.79"	S10	YES
T00CA40222B04102A	PBCAT40 SF04-4.00"-4.5°	4	4.00"	4	2.50"	0.63"	0.47"	0.87"	S10	YES
T00CA40222B04152A	PBCAT40 SF04-6.00"-4.5°	4	6.00"	4	2.50"	0.63"	0.47"	0.87"	S10	YES
T00CA40222B05080A	PBCAT40 SF05-3.15"-4.5°	5	3.15"	5	1.89"	0.79"	0.47"	0.79"	S10	YES
T00CA40222B05102A	PBCAT40 SF05-4.00"-4.5°	5	4.00"	5	2.50"	0.79"	0.47"	0.87"	S10	YES
T00CA40222B05152A	PBCAT40 SF05-6.00"-4.5°	5	6.00"	5	2.50"	0.79"	0.47"	0.87"	S10	YES
T00CA40222B06080A	PBCAT40 SF06-3.15"-4.5°	6	3.15"	6	1.77"	1.14"	0.83"	1.11"	M5	YES
T00CA40222B06102A	PBCAT40 SF06-4.00"-4.5°	6	4.00"	6	1.77"	1.14"	0.83"	1.11"	M5	YES
T00CA40222B06152A	PBCAT40 SF06-6.00"-4.5°	6	6.00"	6	2.52"	1.14"	0.83"	1.22"	M5	YES
T00CA40222B06203A	PBCAT40 SF06-8.00"-4.5°	6	8.00"	6	2.52"	1.14"	0.83"	1.22"	M5	YES
T00CA40222B08080A	PBCAT40 SF08-3.15"-4.5°	8	3.15"	8	1.77"	0.87"	0.83"	1.11"	M6	YES
T00CA40222B08102A	PBCAT40 SF08-4.00"-4.5°	8	4.00"	8	1.77"	0.87"	0.83"	1.11"	M6	YES
T00CA40222B08152A	PBCAT40 SF08-6.00"-4.5°	8	6.00"	8	2.52"	0.87"	0.83"	1.22"	M5	YES
T00CA40222B08203A	PBCAT40 SF08-8.00"-4.5°	8	8.00"	8	2.52"	0.87"	0.83"	1.22"	M5	YES
T00CA40222B10080A	PBCAT40 SF10-3.15"-4.5°	10	3.15"	10	1.77"	1.22"	0.94"	1.22"	M8	YES
T00CA40222B10102A	PBCAT40 SF10-4.00"-4.5°	10	4.00"	10	1.77"	1.22"	0.94"	1.22"	M8	YES
T00CA40222B10152A	PBCAT40 SF10-6.00"-4.5°	10	6.00"	10	2.52"	1.22"	0.94"	1.34"	M8	YES
T00CA40222B10203A	PBCAT40 SF10-8.00"-4.5°	10	8.00"	10	2.52"	1.22"	0.94"	1.34"	M8	YES
T00CA40222B12080A	PBCAT40 SF12-3.15"-4.5°	12	3.15"	12	1.77"	1.42"	0.94"	1.22"	M10	YES
T00CA40222B12102A	PBCAT40 SF12-4.00"-4.5°	12	4.00"	12	1.77"	1.42"	0.94"	1.22"	M10	YES
T00CA40222B12152A	PBCAT40 SF12-6.00"-4.5°	12	6.00"	12	2.52"	1.42"	0.94"	1.34"	M10	YES
T00CA40222B12203A	PBCAT40 SF12-8.00"-4.5°	12	8.00"	12	2.52"	1.42"	0.94"	1.34"	M10	YES
T00CA40222B16080A	PBCAT40 SF16-3.15"-4.5°	16	3.15"	16	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA40222B16102A	PBCAT40 SF16-4.00"-4.5°	16	4.00"	16	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA40222B16152A	PBCAT40 SF16-6.00"-4.5°	16	6.00"	16	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA40222B16203A	PBCAT40 SF16-8.00"-4.5°	16	8.00"	16	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA40222B20080A	PBCAT40 SF20-3.15"-4.5°	20	3.15"	20	2.25"	1.61"	1.3"	1.65"	M16	YES
T00CA40222B20102A	PBCAT40 SF20-4.00"-4.5°	20	4.00"	20	2.25"	1.61"	1.3"	1.65"	M16	YES
T00CA40222B20152A	PBCAT40 SF20-6.00"-4.5°	20	6.00"	20	2.25"	1.61"	1.3"	1.65"	M16	YES
T00CA40222B20203A	PBCAT40 SF20-8.00"-4.5°	20	8.00"	20	2.25"	1.61"	1.3"	1.65"	M16	YES
T00CA40222B25102A	PBCAT40 SF25-4.00"-4.5°	25	4.00"	25	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA40222B25152A	PBCAT40 SF25-6.00"-4.5°	25	6.00"	25	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA40222B25203A	PBCAT40 SF25-8.00"-4.5°	25	8.00"	25	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA40222B32102A	PBCAT40 SF32-4.00"-4.5°	32	4.00"	32	2.25"	1.85"	1.73"	2.09"	M16	YES

PBCAT50 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter mm	L	d mm	L2	L1	D	D1	T	HSS
T00CA50222B03080A	PBCAT50 SF03-3.15"-4.5°	3	3.15"	3	1.89"	0.59"	0.39"	0.71"	S10	YES
T00CA50222B03102A	PBCAT50 SF03-4.00"-4.5°	3	4.00"	3	2.50"	0.59"	0.39"	0.79"	S10	YES
T00CA50222B03152A	PBCAT50 SF03-6.00"-4.5°	3	6.00"	3	2.50"	0.59"	0.39"	0.79"	S10	YES
T00CA50222B04080A	PBCAT50 SF04-3.15"-4.5°	4	3.15"	4	1.89"	0.63"	0.47"	0.79"	S10	YES
T00CA50222B04102A	PBCAT50 SF04-4.00"-4.5°	4	4.00"	4	2.50"	0.63"	0.47"	0.87"	S10	YES
T00CA50222B04152A	PBCAT50 SF04-6.00"-4.5°	4	6.00"	4	2.50"	0.63"	0.47"	0.87"	S10	YES
T00CA50222B05080A	PBCAT50 SF05-3.15"-4.5°	5	3.15"	5	1.89"	0.79"	0.47"	0.79"	S10	YES
T00CA50222B05102A	PBCAT50 SF05-4.00"-4.5°	5	4.00"	5	2.50"	0.79"	0.47"	0.87"	S10	YES
T00CA50222B05152A	PBCAT50 SF05-6.00"-4.5°	5	6.00"	5	2.50"	0.79"	0.47"	0.87"	S10	YES
T00CA50222B06080A	PBCAT50 SF06-3.15"-4.5°	6	3.15"	6	1.77"	1.14"	0.83"	1.11"	M5	YES
T00CA50222B06102A	PBCAT50 SF06-4.00"-4.5°	6	4.00"	6	1.77"	1.14"	0.83"	1.11"	M5	YES

SHRINK-FIT HOLDER 4.5° - 222

4.5°

Order Number	Part Name	Cutter mm	L	d mm	L2	L1	D	D1	T	HSS
T00CA50222B06152A	PBCAT50 SF06-6.00"-4.5°	6	6.00"	6	2.52"	1.14"	0.83"	1.22"	M5	YES
T00CA50222B06203A	PBCAT50 SF06-8.00"-4.5°	6	8.00"	6	2.52"	1.14"	0.83"	1.22"	M5	YES
T00CA50222B08080A	PBCAT50 SF08-3.15"-4.5°	8	3.15"	8	1.77"	0.87"	0.83"	1.11"	M6	YES
T00CA50222B08102A	PBCAT50 SF08-4.00"-4.5°	8	4.00"	8	1.77"	0.87"	0.83"	1.11"	M6	YES
T00CA50222B08152A	PBCAT50 SF08-6.00"-4.5°	8	6.00"	8	2.52"	0.87"	0.83"	1.22"	M5	YES
T00CA50222B08203A	PBCAT50 SF08-8.00"-4.5°	8	8.00"	8	2.52"	0.87"	0.83"	1.22"	M5	YES
T00CA50222B10080A	PBCAT50 SF10-3.15"-4.5°	10	3.15"	10	1.77"	1.22"	0.94"	1.22"	M8	YES
T00CA50222B10102A	PBCAT50 SF10-4.00"-4.5°	10	4.00"	10	1.77"	1.22"	0.94"	1.22"	M8	YES
T00CA50222B10152A	PBCAT50 SF10-6.00"-4.5°	10	6.00"	10	2.52"	1.22"	0.94"	1.34"	M8	YES
T00CA50222B10203A	PBCAT50 SF10-8.00"-4.5°	10	8.00"	10	2.52"	1.22"	0.94"	1.34"	M8	YES
T00CA50222B12080A	PBCAT50 SF12-3.15"-4.5°	12	3.15"	12	1.77"	1.42"	0.94"	1.22"	M10	YES
T00CA50222B12102A	PBCAT50 SF12-4.00"-4.5°	12	4.00"	12	1.77"	1.42"	0.94"	1.22"	M10	YES
T00CA50222B12152A	PBCAT50 SF12-6.00"-4.5°	12	6.00"	12	2.52"	1.42"	0.94"	1.34"	M10	YES
T00CA50222B12203A	PBCAT50 SF12-8.00"-4.5°	12	8.00"	12	2.52"	1.42"	0.94"	1.34"	M10	YES
T00CA50222B16080A	PBCAT50 SF16-3.15"-4.5°	16	3.15"	16	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA50222B16102A	PBCAT50 SF16-4.00"-4.5°	16	4.00"	16	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA50222B16152A	PBCAT50 SF16-6.00"-4.5°	16	6.00"	16	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA50222B16203A	PBCAT50 SF16-8.00"-4.5°	16	8.00"	16	1.75"	1.54"	1.06"	1.34"	M12	YES
T00CA50222B20080A	PBCAT50 SF20-3.15"-4.5°	20	3.15"	20	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA50222B20102A	PBCAT50 SF20-4.00"-4.5°	20	4.00"	20	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA50222B20152A	PBCAT50 SF20-6.00"-4.5°	20	6.00"	20	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA50222B20203A	PBCAT50 SF20-8.00"-4.5°	20	8.00"	20	2.25"	1.61"	1.30"	1.65"	M16	YES
T00CA50222B25102A	PBCAT50 SF25-4.00"-4.5°	25	4.00"	25	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA50222B25152A	PBCAT50 SF25-6.00"-4.5°	25	6.00"	25	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA50222B25203A	PBCAT50 SF25-8.00"-4.5°	25	8.00"	25	2.25"	1.85"	1.73"	2.09"	M16	YES
T00CA50222B32102A	PBCAT50 SF32-4.00"-4.5°	32	4.00"	32	2.25"	1.85"	1.73"	2.09"	M16	YES

Note:

1. Cutter Shank Tolerance:

1/8" and 3mm and 4mm: H4

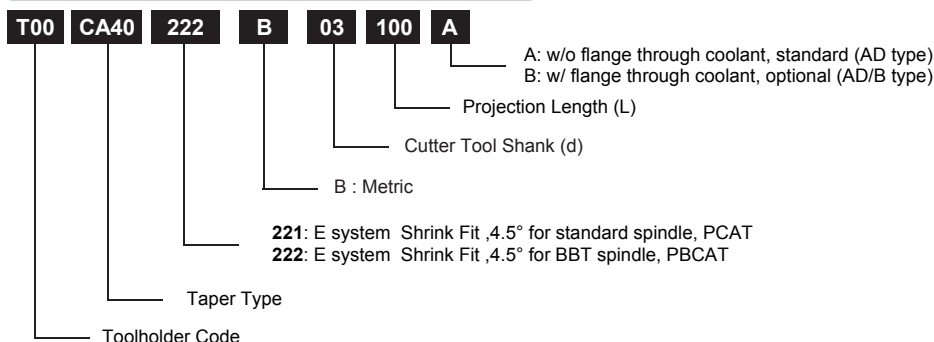
3/16" and 5mm: H5

Larger than 1/4" and 6mm: H6

2. For carbide and HSS tooling.



Order Number Instruction

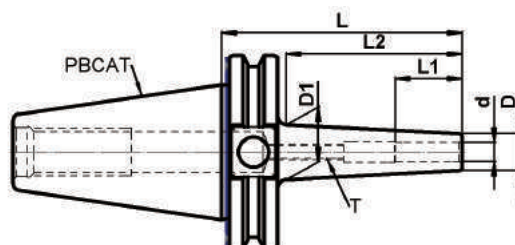


SHRINK-FIT HOLDER 3° - 242

3°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm


PBCAT40 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00CA40242-03080A	PBCAT40 SF1/8"-3.15"-3°	1/8"	3.15"	1/8"	2.20"	0.59"	0.36"	0.59"	S10	NO
T00CA40242-03102A	PBCAT40 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	3.06"	0.59"	0.36"	0.67"	S10	NO
T00CA40242-03152A	PBCAT40 SF1/8"-6.00"-3°	1/8"	6.00"	1/8"	5.06"	0.59"	0.36"	0.88"	S10	NO
T00CA40242-05080A	PBCAT40 SF3/16"-3.15"-3°	3/16"	3.15"	3/16"	2.20"	0.79"	0.43"	0.66"	S10	NO
T00CA40242-05102A	PBCAT40 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	3.06"	0.79"	0.43"	0.75"	S10	NO
T00CA40242-05152A	PBCAT40 SF3/16"-6.00"-3°	3/16"	6.00"	3/16"	5.06"	0.79"	0.43"	0.96"	S10	NO
T00CA40242-06080A	PBCAT40 SF1/4"-3.15"-3°	1/4"	3.15"	1/4"	2.20"	1.14"	0.47"	0.70"	M5	NO
T00CA40242-06102A	PBCAT40 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	3.06"	1.14"	0.47"	0.79"	M5	NO
T00CA40242-06152A	PBCAT40 SF1/4"-6.00"-3°	1/4"	6.00"	1/4"	5.06"	1.14"	0.47"	1.00"	M5	NO
T00CA40242-08080A	PBCAT40 SF5/16"-3.15"-3°	5/16"	3.15"	5/16"	2.20"	1.02"	0.55"	0.78"	M6	NO
T00CA40242-08102A	PBCAT40 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	3.06"	1.02"	0.55"	0.87"	M6	NO
T00CA40242-08152A	PBCAT40 SF5/16"-6.00"-3°	5/16"	6.00"	5/16"	5.06"	1.02"	0.55"	1.08"	M6	NO
T00CA40242-09080A	PBCAT40 SF3/8"-3.15"-3°	3/8"	3.15"	3/8"	2.20"	1.22"	0.63"	0.86"	M8	NO
T00CA40242-09102A	PBCAT40 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	3.06"	1.22"	0.63"	0.95"	M8	NO
T00CA40242-09152A	PBCAT40 SF3/8"-6.00"-3°	3/8"	6.00"	3/8"	5.06"	1.22"	0.63"	1.16"	M8	NO
T00CA40242-12080A	PBCAT40 SF1/2"-3.15"-3°	1/2"	3.15"	1/2"	2.2"	1.42"	0.71"	0.94"	M10	NO
T00CA40242-12102A	PBCAT40 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	3.06"	1.42"	0.71"	1.03"	M10	NO
T00CA40242-12152A	PBCAT40 SF1/2"-6.00"-3°	1/2"	6.00"	1/2"	5.06"	1.42"	0.71"	1.24"	M10	NO
T00CA40242-16080A	PBCAT40 SF5/8"-3.15"-3°	5/8"	3.15"	5/8"	2.20"	1.54"	0.87"	1.10"	M12	NO
T00CA40242-16102A	PBCAT40 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	3.06"	1.54"	0.87"	1.19"	M12	NO
T00CA40242-16152A	PBCAT40 SF5/8"-6.00"-3°	5/8"	6.00"	5/8"	5.06"	1.54"	0.87"	1.40"	M12	NO
T00CA40242-19080A	PBCAT40 SF3/4"-3.15"-3°	3/4"	3.15"	3/4"	2.20"	1.61"	1.06"	1.29"	M16	NO
T00CA40242-19102A	PBCAT40 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	3.06"	1.61"	1.06"	1.38"	M16	NO
T00CA40242-19152A	PBCAT40 SF3/4"-6.00"-3°	3/4"	6.00"	3/4"	5.06"	1.61"	1.06"	1.59"	M16	NO
T00CA40242-25102A	PBCAT40 SF1"-4.00"-3°	1"	4.00"	1"	3.06"	1.85"	1.34"	1.66"	M16	NO
T00CA40242-25152A	PBCAT40 SF1"-6.00"-3°	1"	6.00"	1"	5.06"	1.85"	1.34"	1.87"	M16	NO

PBCAT50 SHRINK FIT HOLDER 3° INCH

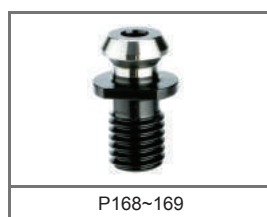
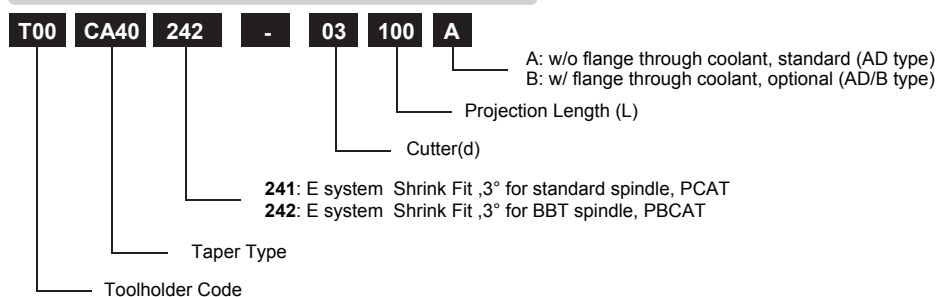
Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00CA50242-03102A	PBCAT50 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	3.06"	0.59"	0.36"	0.67"	S10	NO
T00CA50242-03152A	PBCAT50 SF1/8"-6.00"-3°	1/8"	6.00"	1/8"	5.06"	0.59"	0.36"	0.88"	S10	NO
T00CA50242-05102A	PBCAT50 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	3.06"	0.79"	0.43"	0.75"	S10	NO
T00CA50242-05152A	PBCAT50 SF3/16"-6.00"-3°	3/16"	6.00"	3/16"	5.06"	0.79"	0.43"	0.96"	S10	NO
T00CA50242-06080A	PBCAT50 SF1/4"-3.15"-3°	1/4"	3.15"	1/4"	2.20"	1.14"	0.47"	0.70"	M5	NO
T00CA50242-06102A	PBCAT50 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	3.06"	1.14"	0.47"	0.79"	M5	NO
T00CA50242-06152A	PBCAT50 SF1/4"-6.00"-3°	1/4"	6.00"	1/4"	5.06"	1.14"	0.47"	1.00"	M5	NO
T00CA50242-06203A	PBCAT50 SF1/4"-8.00"-3°	1/4"	8.00"	1/4"	7.06"	1.14"	0.47"	1.21"	M5	NO
T00CA50242-08080A	PBCAT50 SF5/16"-3.15"-3°	5/16"	3.15"	5/16"	2.20"	1.02"	0.55"	0.78"	M6	NO
T00CA50242-08102A	PBCAT50 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	3.06"	1.02"	0.55"	0.87"	M6	NO
T00CA50242-08152A	PBCAT50 SF5/16"-6.00"-3°	5/16"	6.00"	5/16"	5.06"	1.02"	0.55"	1.08"	M6	NO
T00CA50242-08203A	PBCAT50 SF5/16"-8.00"-3°	5/16"	8.00"	5/16"	7.06"	1.02"	0.55"	1.29"	M6	NO
T00CA50242-09080A	PBCAT50 SF3/8"-3.15"-3°	3/8"	3.15"	3/8"	2.20"	1.22"	0.63"	0.86"	M8	NO
T00CA50242-09102A	PBCAT50 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	3.06"	1.22"	0.63"	0.95"	M8	NO
T00CA50242-09152A	PBCAT50 SF3/8"-6.00"-3°	3/8"	6.00"	3/8"	5.06"	1.22"	0.63"	1.16"	M8	NO
T00CA50242-09203A	PBCAT50 SF3/8"-8.00"-3°	3/8"	8.00"	3/8"	7.06"	1.22"	0.63"	1.37"	M8	NO
T00CA50242-12080A	PBCAT50 SF1/2"-3.15"-3°	1/2"	3.15"	1/2"	2.20"	1.42"	0.71"	0.94"	M10	NO
T00CA50242-12102A	PBCAT50 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	3.06"	1.42"	0.71"	1.03"	M10	NO
T00CA50242-12152A	PBCAT50 SF1/2"-6.00"-3°	1/2"	6.00"	1/2"	5.06"	1.42"	0.71"	1.24"	M10	NO

SHRINK-FIT HOLDER 3° - 242
3°

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00CA50242-12203A	PBCAT50 SF1/2"-8.00"-3°	1/2"	8.00"	1/2"	7.06"	1.42"	0.71"	1.45"	M10	NO
T00CA50242-16080A	PBCAT50 SF5/8"-3.15"-3°	5/8"	3.15"	5/8"	2.20"	1.54"	0.87"	1.10"	M12	NO
T00CA50242-16102A	PBCAT50 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	3.06"	1.54"	0.87"	1.19"	M12	NO
T00CA50242-16152A	PBCAT50 SF5/8"-6.00"-3°	5/8"	6.00"	5/8"	5.06"	1.54"	0.87"	1.40"	M12	NO
T00CA50242-16203A	PBCAT50 SF5/8"-8.00"-3°	5/8"	8.00"	5/8"	7.06"	1.54"	0.87"	1.61"	M12	NO
T00CA50242-19080A	PBCAT50 SF3/4"-3.15"-3°	3/4"	3.15"	3/4"	2.20"	1.61"	1.06"	1.29"	M16	NO
T00CA50242-19102A	PBCAT50 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	3.06"	1.61"	1.06"	1.38"	M16	NO
T00CA50242-19152A	PBCAT50 SF3/4"-6.00"-3°	3/4"	6.00"	3/4"	5.06"	1.61"	1.06"	1.59"	M16	NO
T00CA50242-19203A	PBCAT50 SF3/4"-8.00"-3°	3/4"	8.00"	3/4"	7.06"	1.61"	1.06"	1.80"	M16	NO
T00CA50242-25102A	PBCAT50 SF1"-4.00"-3°	1"	4.00"	1"	3.06"	1.85"	1.34"	1.66"	M16	NO
T00CA50242-25152A	PBCAT50 SF1"-6.00"-3°	1"	6.00"	1"	5.06"	1.85"	1.34"	1.87"	M16	NO
T00CA50242-25203A	PBCAT50 SF1"-8.00"-3°	1"	8.00"	1"	7.06"	1.85"	1.34"	2.08"	M16	NO

Note:

- Cutter Shank Tolerance:
 1/8" and 3mm and 4mm: H4
 3/16" and 5mm : H5
 Larger than 1/4" and 6mm : H6
- For carbide tooling.

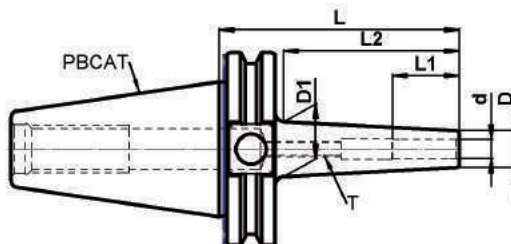

Order Number Instruction


SHRINK-FIT HOLDER 3° - 242

3°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm


PBCAT40 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter mm	L	d mm	L2	L1	D	D1	T	HSS
T00CA40242B03080A	PBCAT40 SF03-3.15"-3°	3	3.15"	3	2.20"	0.59"	0.36"	0.59"	S10	NO
T00CA40242B03102A	PBCAT40 SF03-4.00"-3°	3	4.00"	3	3.06"	0.59"	0.36"	0.67"	S10	NO
T00CA40242B03152A	PBCAT40 SF03-6.00"-3°	3	6.00"	3	5.06"	0.59"	0.36"	0.88"	S10	NO
T00CA40242B05080A	PBCAT40 SF05-3.15"-3°	5	3.15"	5	2.20"	0.79"	0.43"	0.66"	S10	NO
T00CA40242B05102A	PBCAT40 SF05-4.00"-3°	5	4.00"	5	3.06"	0.79"	0.43"	0.75"	S10	NO
T00CA40242B05152A	PBCAT40 SF05-6.00"-3°	5	6.00"	5	5.06"	0.79"	0.43"	0.96"	S10	NO
T00CA40242B06080A	PBCAT40 SF06-3.15"-3°	6	3.15"	6	2.20"	1.14"	0.47"	0.70"	M5	NO
T00CA40242B06102A	PBCAT40 SF06-4.00"-3°	6	4.00"	6	3.06"	1.14"	0.47"	0.79"	M5	NO
T00CA40242B06152A	PBCAT40 SF06-6.00"-3°	6	6.00"	6	5.06"	1.14"	0.47"	1.00"	M5	NO
T00CA40242B06203A	PBCAT40 SF06-8.00"-3°	6	8.00"	6	7.06"	1.14"	0.47"	1.21"	M5	NO
T00CA40242B08080A	PBCAT40 SF08-3.15"-3°	8	3.15"	8	2.20"	1.02"	0.55"	0.78"	M6	NO
T00CA40242B08102A	PBCAT40 SF08-4.00"-3°	8	4.00"	8	3.06"	1.02"	0.55"	0.87"	M6	NO
T00CA40242B08152A	PBCAT40 SF08-6.00"-3°	8	6.00"	8	5.06"	1.02"	0.55"	1.08"	M6	NO
T00CA40242B08203A	PBCAT40 SF08-8.00"-3°	8	8.00"	8	7.06"	1.02"	0.55"	1.29"	M6	NO
T00CA40242B10080A	PBCAT40 SF10-3.15"-3°	10	3.15"	10	2.20"	1.22"	0.63"	0.86"	M8	NO
T00CA40242B10102A	PBCAT40 SF10-4.00"-3°	10	4.00"	10	3.06"	1.22"	0.63"	0.95"	M8	NO
T00CA40242B10152A	PBCAT40 SF10-6.00"-3°	10	6.00"	10	5.06"	1.22"	0.63"	1.16"	M8	NO
T00CA40242B10203A	PBCAT40 SF10-8.00"-3°	10	8.00"	10	7.06"	1.22"	0.63"	1.37"	M8	NO
T00CA40242B12080A	PBCAT40 SF12-3.15"-3°	12	3.15"	12	2.20"	1.42"	0.71"	0.94"	M10	NO
T00CA40242B12102A	PBCAT40 SF12-4.00"-3°	12	4.00"	12	3.06"	1.42"	0.71"	1.03"	M10	NO
T00CA40242B12152A	PBCAT40 SF12-6.00"-3°	12	6.00"	12	5.06"	1.42"	0.71"	1.24"	M10	NO
T00CA40242B12203A	PBCAT40 SF12-8.00"-3°	12	8.00"	12	7.06"	1.42"	0.71"	1.45"	M10	NO
T00CA40242B16080A	PBCAT40 SF16-3.15"-3°	16	3.15"	16	2.20"	1.54"	0.87"	1.10"	M12	NO
T00CA40242B16102A	PBCAT40 SF16-4.00"-3°	16	4.00"	16	3.06"	1.54"	0.87"	1.19"	M12	NO
T00CA40242B16152A	PBCAT40 SF16-6.00"-3°	16	6.00"	16	5.06"	1.54"	0.87"	1.40"	M12	NO
T00CA40242B16203A	PBCAT40 SF16-8.00"-3°	16	8.00"	16	7.06"	1.54"	0.87"	1.61"	M12	NO
T00CA40242B20080A	PBCAT40 SF20-3.15"-3°	20	3.15"	20	2.20"	1.61"	1.06"	1.29"	M16	NO
T00CA40242B20102A	PBCAT40 SF20-4.00"-3°	20	4.00"	20	3.06"	1.61"	1.06"	1.38"	M16	NO
T00CA40242B20152A	PBCAT40 SF20-6.00"-3°	20	6.00"	20	5.06"	1.61"	1.06"	1.59"	M16	NO
T00CA40242B20203A	PBCAT40 SF20-8.00"-3°	20	8.00"	20	7.06"	1.61"	1.06"	1.80"	M16	NO
T00CA40242B25102A	PBCAT40 SF25-4.00"-3°	25	4.00"	25	3.06"	1.85"	1.34"	1.66"	M16	NO
T00CA40242B25152A	PBCAT40 SF25-6.00"-3°	25	6.00"	25	5.06"	1.85"	1.34"	1.87"	M16	NO
T00CA40242B25203A	PBCAT40 SF25-8.00"-3°	25	8.00"	25	7.06"	1.85"	1.34"	2.08"	M16	NO

PBCAT50 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter mm	L	d mm	L2	L1	D	D1	T	HSS
T00CA50242B03102A	PBCAT50 SF03-4.00"-3°	3	4.00"	3	3.06"	0.59"	0.36"	0.67"	S10	NO
T00CA50242B03152A	PBCAT50 SF03-6.00"-3°	3	6.00"	3	5.06"	0.59"	0.36"	0.88"	S10	NO
T00CA50242B05102A	PBCAT50 SF05-4.00"-3°	5	4.00"	5	3.06"	0.79"	0.43"	0.75"	S10	NO
T00CA50242B05152A	PBCAT50 SF05-6.00"-3°	5	6.00"	5	5.06"	0.79"	0.43"	0.96"	S10	NO
T00CA50242B06080A	PBCAT50 SF06-3.15"-3°	6	3.15"	6	2.20"	1.14"	0.47"	0.70"	M5	NO
T00CA50242B06102A	PBCAT50 SF06-4.00"-3°	6	4.00"	6	3.06"	1.14"	0.47"	0.79"	M5	NO
T00CA50242B06152A	PBCAT50 SF06-6.00"-3°	6	6.00"	6	5.06"	1.14"	0.47"	1.00"	M5	NO
T00CA50242B06203A	PBCAT50 SF06-8.00"-3°	6	8.00"	6	7.06"	1.14"	0.47"	1.21"	M5	NO
T00CA50242B08080A	PBCAT50 SF08-3.15"-3°	8	3.15"	8	2.20"	1.02"	0.55"	0.78"	M6	NO
T00CA50242B08102A	PBCAT50 SF08-4.00"-3°	8	4.00"	8	3.06"	1.02"	0.55"	0.87"	M6	NO
T00CA50242B08152A	PBCAT50 SF08-6.00"-3°	8	6.00"	8	5.06"	1.02"	0.55"	1.08"	M6	NO
T00CA50242B08203A	PBCAT50 SF08-8.00"-3°	8	8.00"	8	7.06"	1.02"	0.55"	1.29"	M6	NO
T00CA50242B10080A	PBCAT50 SF10-3.15"-3°	10	3.15"	10	2.20"	1.22"	0.63"	0.86"	M8	NO

SHRINK-FIT HOLDER 3° - 242

3°

Order Number	Part Name	Cutter mm	L	d mm	L2	L1	D	D1	T	HSS
T00CA50242B10102A	PBCAT50 SF10-4.00"-3°	10	4.00"	10	3.06"	1.22"	0.63"	0.95"	M8	NO
T00CA50242B10152A	PBCAT50 SF10-6.00"-3°	10	6.00"	10	5.06"	1.22"	0.63"	1.16"	M8	NO
T00CA50242B10203A	PBCAT50 SF10-8.00"-3°	10	8.00"	10	7.06"	1.22"	0.63"	1.37"	M8	NO
T00CA50242B12080A	PBCAT50 SF12-3.15"-3°	12	3.15"	12	2.20"	1.42"	0.71"	0.94"	M10	NO
T00CA50242B12102A	PBCAT50 SF12-4.00"-3°	12	4.00"	12	3.06"	1.42"	0.71"	1.03"	M10	NO
T00CA50242B12152A	PBCAT50 SF12-6.00"-3°	12	6.00"	12	5.06"	1.42"	0.71"	1.24"	M10	NO
T00CA50242B12203A	PBCAT50 SF12-8.00"-3°	12	8.00"	12	7.06"	1.42"	0.71"	1.45"	M10	NO
T00CA50242B16080A	PBCAT50 SF16-3.15"-3°	16	3.15"	16	2.20"	1.54"	0.87"	1.10"	M12	NO
T00CA50242B16102A	PBCAT50 SF16-4.00"-3°	16	4.00"	16	3.06"	1.54"	0.87"	1.19"	M12	NO
T00CA50242B16152A	PBCAT50 SF16-6.00"-3°	16	6.00"	16	5.06"	1.54"	0.87"	1.40"	M12	NO
T00CA50242B16203A	PBCAT50 SF16-8.00"-3°	16	8.00"	16	7.06"	1.54"	0.87"	1.61"	M12	NO
T00CA50242B20080A	PBCAT50 SF20-3.15"-3°	20	3.15"	20	2.20"	1.61"	1.06"	1.29"	M16	NO
T00CA50242B20102A	PBCAT50 SF20-4.00"-3°	20	4.00"	20	3.06"	1.61"	1.06"	1.38"	M16	NO
T00CA50242B20152A	PBCAT50 SF20-6.00"-3°	20	6.00"	20	5.06"	1.61"	1.06"	1.59"	M16	NO
T00CA50242B20203A	PBCAT50 SF20-8.00"-3°	20	8.00"	20	7.06"	1.61"	1.06"	1.80"	M16	NO
T00CA50242B25102A	PBCAT50 SF25-4.00"-3°	25	4.00"	25	3.06"	1.85"	1.34"	1.66"	M16	NO
T00CA50242B25152A	PBCAT50 SF25-6.00"-3°	25	6.00"	25	5.06"	1.85"	1.34"	1.87"	M16	NO
T00CA50242B25203A	PBCAT50 SF25-8.00"-3°	25	8.00"	25	7.06"	1.85"	1.34"	2.08"	M16	NO

Note:

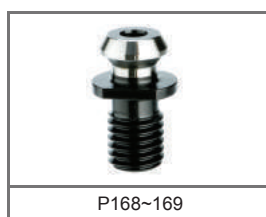
1. Cutter Shank Tolerance:

1/8" and 3mm and 4mm: H4

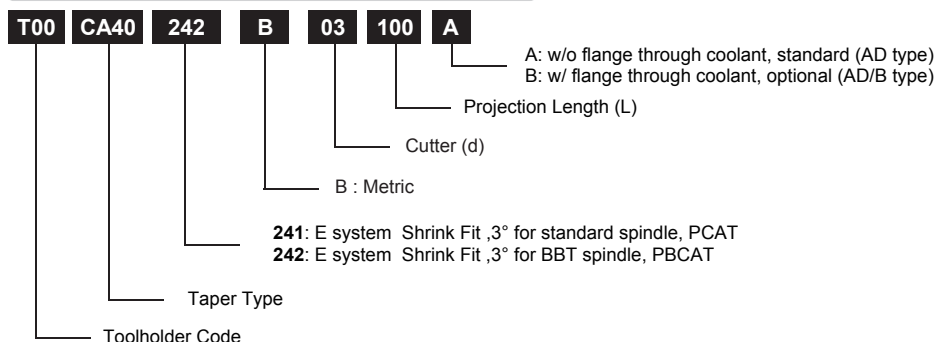
3/16" and 5mm : H5

Larger than 1/4" and 6mm : H6

2. For carbider tooling.



Order Number Instruction

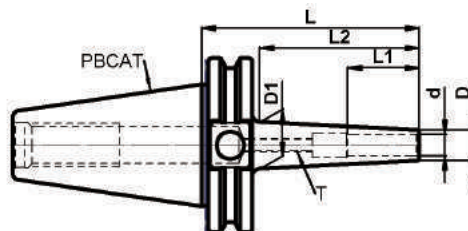


SHRINK-FIT HOLDER 3° SLIM - 252

3° SLIM

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm


PBCAT40 SHRINK FIT HOLDER 3° SLIM INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00CA40252-03080A	PBCAT40 SF1/8"-3.15"-3° Slim	1/8"	3.15"	1/8"	2.20"	0.59"	0.24"	0.47"	S10	NO
T00CA40252-03102A	PBCAT40 SF1/8"-4.00"-3° Slim	1/8"	4.00"	1/8"	3.06"	0.59"	0.24"	0.56"	S10	NO
T00CA40252-03152A	PBCAT40 SF1/8"-6.00"-3° Slim	1/8"	6.00"	1/8"	5.06"	0.59"	0.24"	0.77"	S10	NO
T00CA40252-05080A	PBCAT40 SF3/16"-3.15"-3° Slim	3/16"	3.15"	3/16"	2.20"	0.79"	0.31"	0.55"	S10	NO
T00CA40252-05102A	PBCAT40 SF3/16"-4.00"-3° Slim	3/16"	4.00"	3/16"	3.06"	0.79"	0.31"	0.64"	S10	NO
T00CA40252-05152A	PBCAT40 SF3/16"-6.00"-3° Slim	3/16"	6.00"	3/16"	5.06"	0.79"	0.31"	0.84"	S10	NO
T00CA40252-06080A	PBCAT40 SF1/4"-3.15"-3° Slim	1/4"	3.15"	1/4"	2.20"	1.14"	0.35"	0.59"	M5	NO
T00CA40252-06102A	PBCAT40 SF1/4"-4.00"-3° Slim	1/4"	4.00"	1/4"	3.06"	1.14"	0.35"	0.67"	M5	NO
T00CA40252-06152A	PBCAT40 SF1/4"-6.00"-3° Slim	1/4"	6.00"	1/4"	5.06"	1.14"	0.35"	0.88"	M5	NO
T00CA40252-08080A	PBCAT40 SF5/16"-3.15"-3° Slim	5/16"	3.15"	5/16"	2.20"	1.02"	0.43"	0.66"	M6	NO
T00CA40252-08102A	PBCAT40 SF5/16"-4.00"-3° Slim	5/16"	4.00"	5/16"	3.06"	1.02"	0.43"	0.75"	M6	NO
T00CA40252-08152A	PBCAT40 SF5/16"-6.00"-3° Slim	5/16"	6.00"	5/16"	5.06"	1.02"	0.43"	0.96"	M6	NO
T00CA40252-09080A	PBCAT40 SF3/8"-3.15"-3° Slim	3/8"	3.15"	3/8"	2.20"	1.22"	0.51"	0.74"	M8	NO
T00CA40252-09102A	PBCAT40 SF3/8"-4.00"-3° Slim	3/8"	4.00"	3/8"	3.06"	1.22"	0.51"	0.83"	M8	NO
T00CA40252-09152A	PBCAT40 SF3/8"-6.00"-3° Slim	3/8"	6.00"	3/8"	5.06"	1.22"	0.51"	1.04"	M8	NO
T00CA40252-12080A	PBCAT40 SF1/2"-3.15"-3° Slim	1/2"	3.15"	1/2"	2.20"	1.42"	0.59"	0.82"	M10	NO
T00CA40252-12102A	PBCAT40 SF1/2"-4.00"-3° Slim	1/2"	4.00"	1/2"	3.06"	1.42"	0.59"	0.91"	M10	NO
T00CA40252-12152A	PBCAT40 SF1/2"-6.00"-3° Slim	1/2"	6.00"	1/2"	5.06"	1.42"	0.59"	1.12"	M10	NO

PBCAT50 SHRINK FIT HOLDER 3° SLIM INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00CA50252-06102A	PBCAT50 SF1/4"-4.00"-3° Slim	1/4"	4.00"	1/4"	3.06"	1.14"	0.35"	0.67"	M5	NO
T00CA50252-06152A	PBCAT50 SF1/4"-6.00"-3° Slim	1/4"	6.00"	1/4"	5.06"	1.14"	0.35"	0.88"	M5	NO
T00CA50252-08102A	PBCAT50 SF5/16"-4.00"-3° Slim	5/16"	4.00"	5/16"	3.06"	1.02"	0.43"	0.75"	M6	NO
T00CA50252-08152A	PBCAT50 SF5/16"-6.00"-3° Slim	5/16"	6.00"	5/16"	5.06"	1.02"	0.43"	0.96"	M6	NO
T00CA50252-09102A	PBCAT50 SF3/8"-4.00"-3° Slim	3/8"	4.00"	3/8"	3.06"	1.22"	0.51"	0.83"	M8	NO
T00CA50252-09152A	PBCAT50 SF3/8"-6.00"-3° Slim	3/8"	6.00"	3/8"	5.06"	1.22"	0.51"	1.04"	M8	NO
T00CA50252-12102A	PBCAT50 SF1/2"-4.00"-3° Slim	1/2"	4.00"	1/2"	3.06"	1.42"	0.59"	0.91"	M10	NO
T00CA50252-12152A	PBCAT50 SF1/2"-6.00"-3° Slim	1/2"	6.00"	1/2"	5.06"	1.42"	0.59"	1.12"	M10	NO

Note:

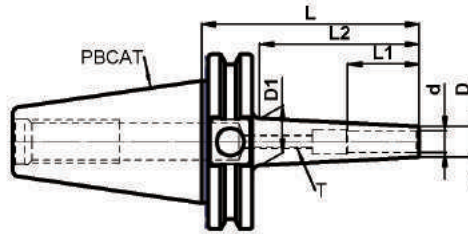
- Cutter Shank Tolerance:
1/8" and 3mm and 4mm: H4
3/16" and 5mm: H5
Larger than 1/4" and 6mm: H6
- For carbide tooling.

**Order Number Instruction**
T00 CA40 252 - 03 100 A

- A: w/o flange through coolant, standard (AD type)
 B: w/ flange through coolant, optional (AD/B type)
- Projection Length (L)
- Cutter Shank(d)
- 251: E system Shrink Fit ,3° Slim for standard spindle, PCAT
 252: E system Shrink Fit ,3° Slim for BBT spindle, PBCAT
- Taper Type
- Toolholder Code

SHRINK-FIT HOLDER 3° SLIM - 252
3° SLIM
Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm


PBCAT40 SHRINK FIT HOLDER 3° SLIM METRIC

Order Number	Part Name	Cutter mm	L	d mm	L2	L1	D	D1	T	HSS
T00CA40252A03080A	PBCAT40 SF03-3.15"-3°Slim	3	3.15"	3	2.20"	0.59"	0.24"	0.47"	S10	NO
T00CA40252B03102A	PBCAT40 SF03-4.00"-3°Slim	3	4.00"	3	3.06"	0.59"	0.24"	0.56"	S10	NO
T00CA40252B03152A	PBCAT40 SF03-6.00"-3°Slim	3	6.00"	3	5.06"	0.59"	0.24"	0.77"	S10	NO
T00CA40252B05080A	PBCAT40 SF05-3.15"-3°Slim	5	3.15"	5	2.20"	0.79"	0.31"	0.55"	S10	NO
T00CA40252B05102A	PBCAT40 SF05-4.00"-3°Slim	5	4.00"	5	3.06"	0.79"	0.31"	0.64"	S10	NO
T00CA40252B05152A	PBCAT40 SF05-6.00"-3°Slim	5	6.00"	5	5.06"	0.79"	0.31"	0.84"	S10	NO
T00CA40252B06080A	PBCAT40 SF06-3.15"-3°Slim	6	3.15"	6	2.20"	1.14"	0.35"	0.59"	M5	NO
T00CA40252B06102A	PBCAT40 SF06-4.00"-3°Slim	6	4.00"	6	3.06"	1.14"	0.35"	0.67"	M5	NO
T00CA40252B06152A	PBCAT40 SF06-6.00"-3°Slim	6	6.00"	6	5.06"	1.14"	0.35"	0.88"	M5	NO
T00CA40252B08080A	PBCAT40 SF08-3.15"-3°Slim	8	3.15"	8	2.20"	1.02"	0.43"	0.66"	M6	NO
T00CA40252B08102A	PBCAT40 SF08-4.00"-3°Slim	8	4.00"	8	3.06"	1.02"	0.43"	0.75"	M6	NO
T00CA40252B08152A	PBCAT40 SF08-6.00"-3°Slim	8	6.00"	8	5.06"	1.02"	0.43"	0.96"	M6	NO
T00CA40252B10080A	PBCAT40 SF10-3.15"-3°Slim	10	3.15"	10	2.20"	1.22"	0.51"	0.74"	M8	NO
T00CA40252B10102A	PBCAT40 SF10-4.00"-3°Slim	10	4.00"	10	3.06"	1.22"	0.51"	0.83"	M8	NO
T00CA40252B10152A	PBCAT40 SF10-6.00"-3°Slim	10	6.00"	10	5.06"	1.22"	0.51"	1.04"	M8	NO
T00CA40252B12080A	PBCAT40 SF12-3.15"-3°Slim	12	3.15"	12	2.20"	1.42"	0.59"	0.82"	M10	NO
T00CA40252B12102A	PBCAT40 SF12-4.00"-3°Slim	12	4.00"	12	3.06"	1.42"	0.59"	0.91"	M10	NO
T00CA40252B12152A	PBCAT40 SF12-6.00"-3°Slim	12	6.00"	12	5.06"	1.42"	0.59"	1.12"	M10	NO

PBCAT50 SHRINK FIT HOLDER 3° SLIM METRIC

Order Number	Part Name	Cutter mm	L	d mm	L2	L1	D	D1	T	HSS
T00CA50252B06102A	PBCAT50 SF06-4.00"-3°Silmm	6	4.00"	6	3.06"	1.14"	0.35"	0.67"	M5	NO
T00CA50252B06152A	PBCAT50 SF06-6.00"-3°Silmm	6	6.00"	6	5.06"	1.14"	0.35"	0.88"	M5	NO
T00CA50252B08102A	PBCAT50 SF08-4.00"-3°Silmm	8	4.00"	8	3.06"	1.02"	0.43"	0.75"	M6	NO
T00CA50252B08152A	PBCAT50 SF08-6.00"-3°Silmm	8	6.00"	8	5.06"	1.02"	0.43"	0.96"	M6	NO
T00CA50252B10102A	PBCAT50 SF10-4.00"-3°Silmm	10	4.00"	10	3.06"	1.22"	0.51"	0.83"	M8	NO
T00CA50252B10152A	PBCAT50 SF10-6.00"-3°Silmm	10	6.00"	10	5.06"	1.22"	0.51"	1.04"	M8	NO
T00CA50252B12102A	PBCAT50 SF12-4.00"-3°Silmm	12	4.00"	12	3.06"	1.42"	0.59"	0.91"	M10	NO
T00CA50252B12152A	PBCAT50 SF12-6.00"-3°Silmm	12	6.00"	12	5.06"	1.42"	0.59"	1.12"	M10	NO

Note:

- Cutter Shank Tolerance:
1/8" and 3mm and 4mm: H4
3/16" and 5mm : H5
Larger than 1/4" and 6mm : H6
- For carbider tooling.

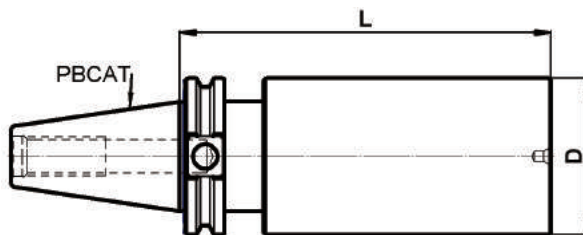

Order Number Instruction

T00	CA40	252	B	03	100	A
						A: w/o flange through coolant, standard (AD type) B: w/ flange through coolant, optional (AD/B type)
						Projection Length (L)
						Cutter Shanks(d)
						B : Metric
						241: E system Shrink Fit ,3° Slim for standard spindle, PCAT 242: E system Shrink Fit ,3° Slim for BBT spindle, PBCAT
						Taper Type
						Toolholder Code

BLANK ARBOR - 312

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58±2 on taper
- Hardness: HRC26~40 on Shank



BLANK ARBOR INCH

Order Number	Part Name	OD	L
T00CA40312-63152	PBCAT40 Blank 2.50"-6.00"	2.50"	6.00"
T00CA40312-63203	PBCAT40 Blank 2.50"-8.00"	2.50"	8.00"
T00CA40312-63254	PBCAT40 Blank 2.50"-10.00"	2.50"	10.00"
T00CA40312-102152	PBCAT40 Blank 4.00"-6.00"	4.00"	6.00"
T00CA50312-99305	PBCAT50 Blank 3.88"-12.00"	3.88"	12.00"



P168~169

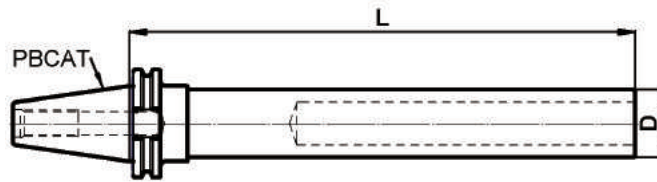
Order Number Instruction

T00	CA40	312	-	03	100	A
Toolholder Code	Taper Type	311: E system Blnak Arbor for standard spindle, PCAT 312: E system Blnak Arbor for BBT spindle, PBCAT		OD Dimension(d)	Projection Length (L)	A: w/o flange through coolant, standard (AD type) B: w/ flange through coolant, optional (AD/B type)

TEST ARBOR - G002 *Hollow* / GS02 *Solid*

Quality

- Taper Angle Tolerance: AT1
- Case Hardness: HRC 58±2
- Runout: 0.002mm (0.00008")
- Cylindricity: 0.003mm (0.00012")



PBCAT TEST ARBOR INCH

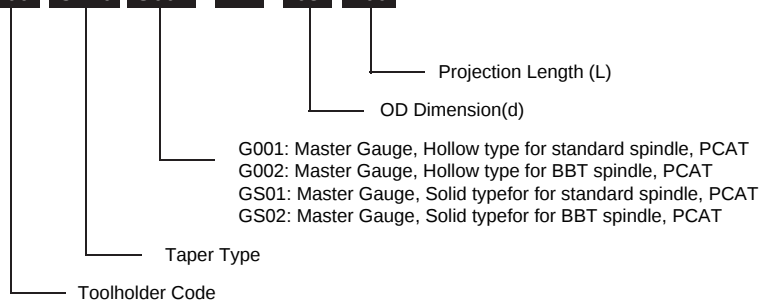
Order Number	Part Name	OD	L
T00CA40G002-40300	PBCAT40 G000 1.57"-11.8"	1.57"	11.8"
T00CA40G002-40320	PBCAT40 G000 1.57"-12.6"	1.57"	12.6"
T00CA40GS02-40320	PBCAT40 GS00 1.57"-12.6"	1.57"	12.6"
T00CA50G002-50300	PBCAT50 G000 1.97"-11.8"	1.97"	11.8"
T00CA50GS02-50320	PBCAT50 GS00 1.97"-12.6"	1.97"	12.6"



P168-169

Order Number Instruction

T00 CA40 G002 - 03 100





INFINITE TOOL HOLDER

INFINITE Combination

INFINITE Flexibility

INFINITE Tooling efficiency

INFINITE Rigidity

INFINITE Performance,

and much more...

I SYSTEM TOOL HOLDER

I SYSTEM - IR BASE

I SYSTEM - IR EXTENSION BASE

IPE SYSTEM - IR BASE

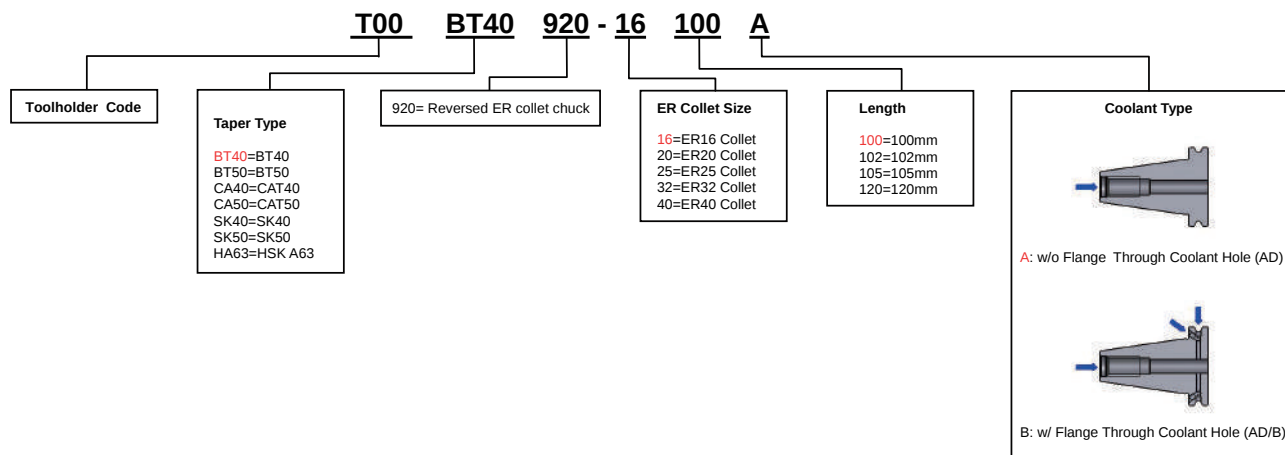
IPE SYSTEM - IR EXTENSION CHUCK

I SYSTEM TOOL HOLDERS (INFINITE)

Order Number Instruction

I SYSTEM Toolholder: Reversed ER Collet Chuck

Example: T00BT40920-16100A

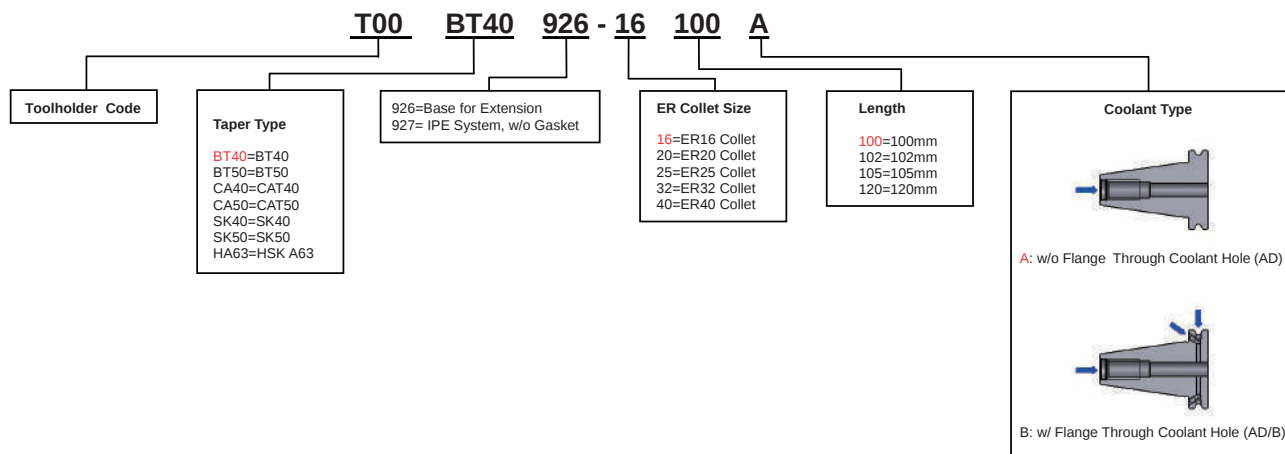


Note

Example: **T00BT40920-16100A** Reversed Collet Chuck, the part name is BT40 ER16-100-IN

I SYSTEM Toolholder: Base for Extension

Example: T00BT40926-16100A

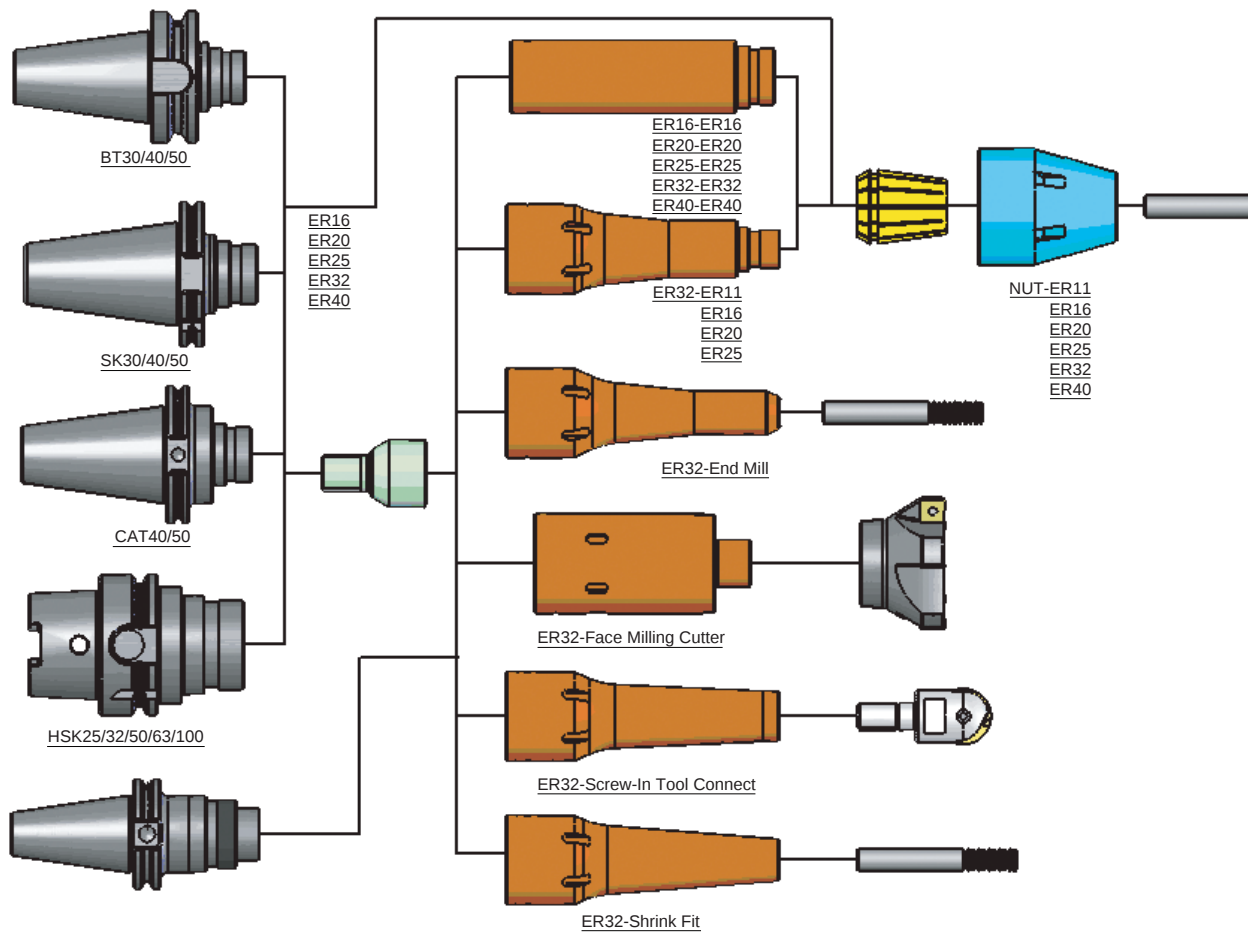


Note

- Example: **T00BT40926-16100** for base extension, part name is BT40 ER 16-100-EX
- Please refer to our I-system extensions for you appropriate assembly needs.

REVOLUTIONARY TOOL HOLDER MODULE

*Simultaneously providing flexibility and stability,
State of the art engineering and ingenuity make infinite combinations possible and simple.
Super powerful clamping force, surpassing conventional ER collet type or shrink fit chuck.*



With the invention of PrimeTool **INFINITE** SYSTEM, tooling system is getting smarter than ever. Imagine how different it will mean to your investment and machining requirements if one system can provide all the solutions you need for different applications!

PrimeTool makes the impossible task become a reality by introducing our **INFINITE** SYSTEM tooling system.

At present, high-precision metal machining, such as drilling, reaming, boring, thread milling, inner/outer diameter drilling, or surface milling, usually require many different types of toolholders and cutters. Therefore, huge efforts are required to procure toolholders for different specific functions. It is an even more daunting task to manage their various characteristics such as precision, clamping force, and different fields of applications.

PrimeTool **INFINITE** SYSTEM utilize the concept of modulization to resolve this problem. By using one patent toolholder base, we can add to it many different extension adapters, which will then be coupled with its specific cutters.

For example, as shown in our diagram, users can choose to connect to their toolholder base to an ER collet cutter or a face milling cutter simply by changing the extension adapter. Many functions can then be created by switching to different extension adapters. The length and diameter of the extension adapters can even be flexible to provide many different needs of applications.

BENEFITS AND ADVANTAGES

- **Interchangeability:**

With same assortment of extension adapters, **INFINITE** SYSTEM can be applied to all kinds of spindle types and provide a maximum combinations of choices and cost effectiveness.

- **Multiple-functions:**

Applicable to ER collets, end milling, combi shell milling, screw-in tool connect, shrink fit, and many more.

- **Superior clamping force:**

Reverse ER Collet-to-Nut assembly provides more contact area and friction force than traditional assembly.

- **Flexible in length:**

Multiple length extensions can meet customer's various applications.

- **Excellent concentricity:**

Shank with connector design or integrated shank design can offer excellent concentricity.

- **Minimized machining interference:**

Small-diameter nut design decreases machining interference.

- **Available for dual face contact:**

Improving machining precision and quality.

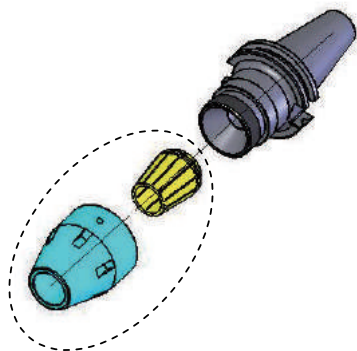
Fixture Connector



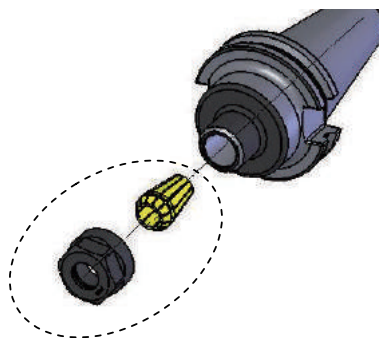
The **INFINITE** SYSTEM is extremely precise in terms of its concentricity, thanks to our patented design of an interior fixture connector between the toolholder base and the extension rod. This connector provides a very precise fit between the extension rod and toolholder base, and also enhances the overall tooling system rigidity.

Reversed Collet-to-Nut Design

Reversed Collet-to-Nut



Conventional Collet-to-Nut



INFINITE SYSTEM includes the special design of reversed mounting a conventional ER collet and its redesigned collet nut. Conventional ER collet clamping often results in insufficient clamping force when encountered with heavier cutting applications. In our new design, due to smaller nut front than conventional ER nut, the length of the cutter does not need to be extended as far while still adding much needed clearance in difficult and tight machining applications. This design increases the contact area of the cutter with the tool chuck apparatus, and reduces the impact of external forces, thus machining precision of the cutter is significantly improved.

For heavy duty machining applications, the **INFINITE** SYSTEM can easily meet any strict requirements for precision and efficiency.

Now we bring you a “one that fits all” system. It not only replaces many specific function toolholders but also surpasses their performance in many ways!

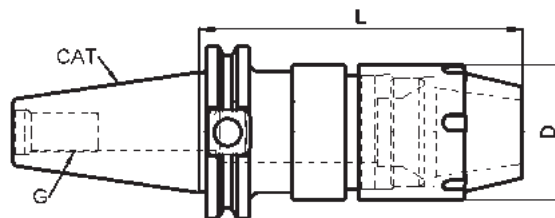
INFINITE TOOL HOLDER

REVERSED ER COLLET CHUCK - 920

CAT 40-50

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



CAT40 I SYSTEM, REVERSED ER COLLET CHUCK INCH

Order Number	Part Name	Base	Length	Range	D	L	G
T00CA40920-11102A	CAT40 ER11-4.00"-IN	ER11	4.00"	1/16"~1/4"	0.75"	4.00"	5/8"-11
T00CA40920-16102A	CAT40 ER16-4.00"-IN	ER16	4.00"	1/16"~13/32"	1.10"	4.00"	
T00CA40920-20102A	CAT40 ER20-4.00"-IN	ER20	4.00"	1/16"~1/2"	1.34"	4.00"	
T00CA40920-25102A	CAT40 ER25-4.00"-IN	ER25	4.00"	1/16"~5/8"	1.66"	4.00"	
T00CA40920-32120A	CAT40 ER32-4.72"-IN	ER32	4.72"	3/32"~3/4"	1.97"	4.72"	
T00CA40920-40120A	CAT40 ER40-4.72"-IN	ER40	4.72"	1/8"~1"	2.48"	4.72"	

CAT50 I SYSTEM, REVERSED ER COLLET CHUCK INCH

Order Number	Part Name	Base	Length	Range	D	L	G
T00CA50920-16102A	CAT50 ER16-4.00"-IN	ER16	4.00"	1/16"~13/32"	1.10"	4.00"	1"-8
T00CA50920-20102A	CAT50 ER20-4.00"-IN	ER20	4.00"	1/16"~1/2"	1.34"	4.00"	
T00CA50920-25102A	CAT50 ER25-4.00"-IN	ER25	4.00"	1/16"~5/8"	1.66"	4.00"	
T00CA50920-32102A	CAT50 ER32-4.00"-IN	ER32	4.00"	3/32"~3/4"	1.97"	4.00"	
T00CA50920-40105A	CAT50 ER40-4.13"-IN	ER40	4.13"	1/8"~1"	2.48"	4.13"	

CAT IR EXTENSION BASE - 926

CAT40 I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	Length	Range	D	L	L1	G
T00CA40926-08072A	CAT40 IR08-2.82"-EX	IR08	2.82"	X	0.47"	2.78"	2.055"	5/8"-11
T00CA40926-8S072A	CAT40 IR8S-2.82"-EX	IR8S	2.82"	X	0.63"	2.78"	2.055"	
T00CA40926-11102A	CAT40 IR11-4.00"-EX	IR11	4.00"	X	0.75"	3.33"	2.622"	
T00CA40926-16102A	CAT40 IR16-4.00"-EX	IR16	4.00"	X	1.10"	3.00"	1.874"	
T00CA40926-20102A	CAT40 IR20-4.00"-EX	IR20	4.00"	X	1.34"	2.88"	1.835"	
T00CA40926-25102A	CAT40 IR25-4.00"-EX	IR25	4.00"	X	1.66"	2.78"	1.559"	
T00CA40926-32120A	CAT40 IR32-4.72"-EX	IR32	4.72"	X	1.97"	3.29"	2.146"	
T00CA40926-32120AG	CAT40 IR32-4.72"-EXG	IR32	4.72"	X	1.97"	3.29"	2.146"	
T00CA40926-40120A	CAT40 IR40-4.72"-EX	IR40	4.72"	X	2.48"	3.11"	1.988"	

CAT50 I SYSTEM, IR EXTENSION BASE INCH

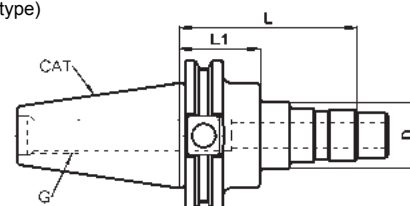
Order Number	Part Name	Base	Length	Range	D	L	L1	G
T00CA50926-08072A	CAT50 IR08-2.82"-EX	IR08	2.82"	X	0.47"	2.78"	2.055"	1"-8
T00CA50926-8S072A	CAT50 IR8S-2.82"-EX	IR8S	2.82"	X	0.63"	2.78"	2.055"	
T00CA50926-11102A	CAT50 IR11-4.00"-EX	IR11	4.00"	X	0.75"	3.33"	2.622"	
T00CA50926-16102A	CAT50 IR16-4.00"-EX	IR16	4.00"	X	1.10"	3.00"	1.874"	
T00CA50926-20102A	CAT50 IR20-4.00"-EX	IR20	4.00"	X	1.34"	2.88"	1.835"	
T00CA50926-25102A	CAT50 IR25-4.00"-EX	IR25	4.00"	X	1.66"	2.78"	1.559"	
T00CA50926-32102A	CAT50 IR32-4.00"-EX	IR32	4.00"	X	2.75"	2.56"	1.421"	
T00CA50926-32102AG	CAT50 IR32-4.00"-EXG	IR32	4.00"	X	2.75"	2.56"	1.421"	
T00CA50926-40105A	CAT50 IR40-4.13"-EX	IR40	4.13"	X	2.75"	2.52"	1.398"	



Order Number Instruction

T00 CA40 920 - 16 102 A

- T00: Toolholder Code
- CA40: Taper Type
- 920: Reversed ER Collet Chuck
- 926: IR Extension Base
- 16: Length (L)
- 102: ER Collet size
- A: w/o flange through coolant, standard (AD type)
B: w/ flange through coolant, optional (AD/B type)



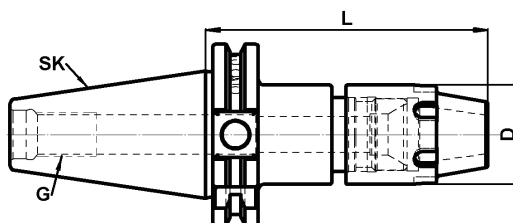
INFINITE TOOL HOLDER

REVERSED ER COLLET CHUCK - 920

SK 40-50

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



SK40 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	ER size	Length	Range	D	L	G
T00SK40920-11100A	SK40 ER11-100-IN	ER11	100	0.5~7	19	100	M16
T00SK40920-16100A	SK40 ER16-100-IN	ER16	100	0.5~10	28	100	
T00SK40920-20100A	SK40 ER20-100-IN	ER20	100	1~13	34	100	
T00SK40920-25100A	SK40 ER25-100-IN	ER25	100	1~16	42	100	
T00SK40920-32100A	SK40 ER32-100-IN	ER32	100	2~20	50	100	
T00SK40920-40120A	SK40 ER40-120-IN	ER40	120	3~26	63	120	

SK50 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	ER size	Length	Range	D	L	G
T00SK50920-11100A	SK50 ER11-100-IN	ER11	100	0.5~7	19	100	M24
T00SK50920-16100A	SK50 ER16-100-IN	ER16	100	0.5~10	28	100	
T00SK50920-20100A	SK50 ER20-100-IN	ER20	100	1~13	34	100	
T00SK50920-25100A	SK50 ER25-100-IN	ER25	100	1~16	42	100	
T00SK50920-32100A	SK50 ER32-100-IN	ER32	100	2~20	50	100	
T00SK50920-40105A	SK50 ER40-105-IN	ER40	105	3~26	63	105	

SK IR EXTENSION BASE - 926

SK40 I SYSTEM, IR EXTENSION BASE METRIC

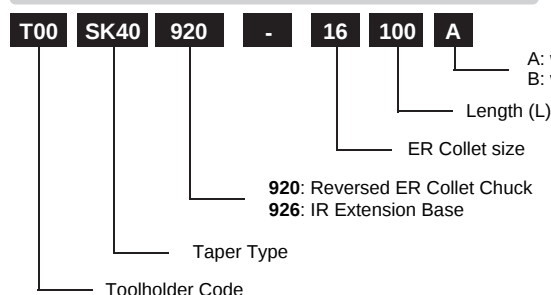
Order Number	Part Name	Base	Length	D	L	L1	G
T00SK40926-08050A	SK40 IR08-050-EX	IR08	50	12	49	30.6	M16
T00SK40926-8S050A	SK40 IR8S-050-EX	IR8S	50	16	49	30.6	
T00SK40926-11070A	SK40 IR11-070-EX	IR11	70	19	53	35.0	
T00SK40926-16100A	SK40 IR16-100-EX	IR16	100	28	75	46.0	
T00SK40926-20100A	SK40 IR20-100-EX	IR20	100	34	72	45.0	
T00SK40926-25100A	SK40 IR25-100-EX	IR25	100	42	69	38.0	
T00SK40926-32100A	SK40 IR32-100-EX	IR32	100	50	64	34.5	
T00SK40926-32100AG	SK40 IR32-100-EXG	IR32	100	50	64	34.5	
T00SK40926-40120A	SK40 IR40-100-EX	IR40	120	63	79	50.5	

SK50 I SYSTEM, IR EXTENSION BASE METRIC

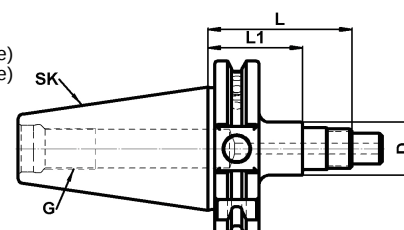
Order Number	Part Name	Base	Length	D	L	L1	G
T00SK50926-08050A	SK50 IR08-050-EX	IR08	50	12	49	30.6	M24
T00SK50926-8S050A	SK50 IR8S-050-EX	IR8S	50	16	49	30.6	
T00SK50926-11100A	SK50 IR11-100-EX	IR11	100	19	83	65.0	
T00SK50926-16100A	SK50 IR16-100-EX	IR16	100	28	75	46.0	
T00SK50926-20100A	SK50 IR20-100-EX	IR20	100	34	72	45.0	
T00SK50926-25100A	SK50 IR25-100-EX	IR25	100	42	69	38.0	
T00SK50926-32100A	SK50 IR32-100-EX	IR32	100	50	64	34.5	
T00SK50926-32110AG	SK50 IR32-100-EXG	IR32	100	50	64	34.5	
T00SK50926-40105A	SK50 IR40-105-EX	IR40	105	63	64	35.5	
T00SK50926-41105A	SK50 IR41-105-EX	IR41	105	70	64	35.5	



Order Number Instruction



A: w/o flange through coolant, standard (AD type)
 B: w/ flange through coolant, optional (AD/B type)

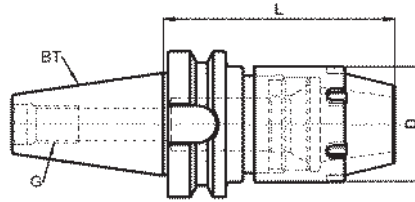


INFINITE TOOL HOLDER

REVERSED ER COLLET CHUCK - 920

BT 30-40-50
Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm


BT30 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

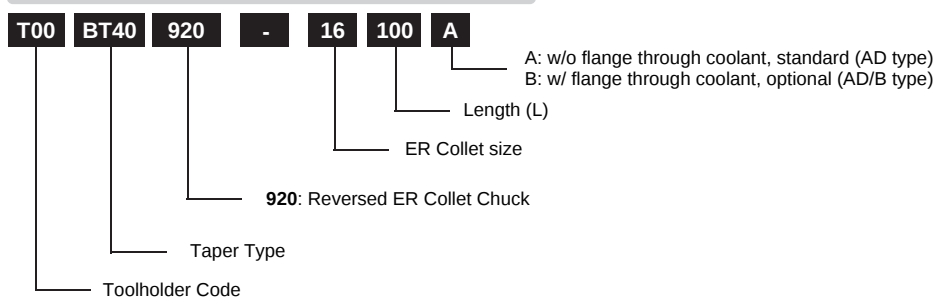
Order Number	Part Name	ER size	Length	Range	D	L	G
T00BT30920-11100A	BT30 ER11-100-IN	ER11	100	0.5~7	19	100	M12
T00BT30920-16100A	BT30 ER16-100-IN	ER16	100	0.5~10	28	100	
T00BT30920-20100A	BT30 ER20-100-IN	ER20	100	1~13	34	100	
T00BT30920-25100A	BT30 ER25-100-IN	ER25	100	1~16	42	100	
T00BT30920-32100A	BT30 ER32-100-IN	ER32	100	2~20	50	100	

BT40 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	ER size	Length	Range	D	L	G
T00BT40920-11100A	BT40 ER11-100-IN	ER11	100	0.5~7	19	100	M16
T00BT40920-16100A	BT40 ER16-100-IN	ER16	100	0.5~10	28	100	
T00BT40920-20100A	BT40 ER20-100-IN	ER20	100	1~13	34	100	
T00BT40920-25100A	BT40 ER25-100-IN	ER25	100	1~16	42	100	
T00BT40920-32100A	BT40 ER32-100-IN	ER32	100	2~20	50	100	
T00BT40920-40100A	BT40 ER40-100-IN	ER40	100	3~26	63	100	

BT50 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	ER size	Length	Range	D	L	G
T00BT50920-11100A	BT50 ER11-100-IN	ER11	100	0.5~7	19	100	M24
T00BT50920-16100A	BT50 ER16-100-IN	ER16	100	0.5~10	28	100	
T00BT50920-20100A	BT50 ER20-100-IN	ER20	100	1~13	34	100	
T00BT50920-25110A	BT50 ER25-110-IN	ER25	110	1~16	42	110	
T00BT50920-32110A	BT50 ER32-110-IN	ER32	110	2~20	50	110	
T00BT50920-40120A	BT50 ER40-120-IN	ER40	120	3~26	63	120	

Order Number Instruction


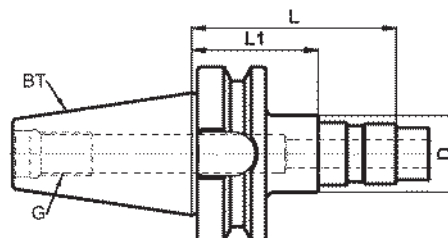
INFINITE TOOL HOLDER

BT IR EXTENSION BASE - 926

BT 30-40-50

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



BT30 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	D	L	L1	G
T00BT30926-08070A	BT30 IR08-070-EX	IR08	70	12	69	50.6	M12
T00BT30926-8S070A	BT30 IR8S-070-EX	IR8S	70	16	69	50.6	
T00BT30926-11100A	BT30 IR11-100-EX	IR11	100	19	83	65.0	
T00BT30926-16100A	BT30 IR16-100-EX	IR16	100	28	75	46.0	
T00BT30926-20100A	BT30 IR20-100-EX	IR20	100	34	72	45.0	
T00BT30926-25100A	BT30 IR25-100-EX	IR25	100	42	69	38.0	
T00BT30926-32100A	BT30 IR32-100-EX	IR32	100	50	64	34.5	
T00BT30926-32100AG	BT30 IR32-100-EXG	IR32	100	50	64	34.5	

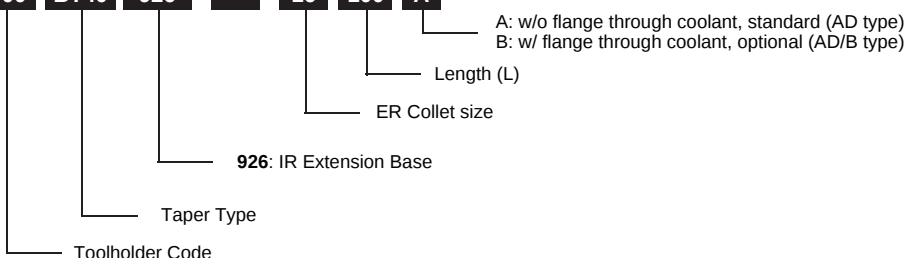
BT40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	D	L	L1	G
T00BT40926-08070A	BT40 IR08-070-EX	IR08	70	12	69	50.6	M16
T00BT40926-8S070A	BT40 IR8S-070-EX	IR8S	70	16	69	50.6	
T00BT40926-11070A	BT40 IR11-070-EX	IR11	70	19	53	35.0	
T00BT40926-11100A	BT40 IR11-100-EX	IR11	100	19	83	65.0	
T00BT40926-16100A	BT40 IR16-100-EX	IR16	100	28	75	46.0	
T00BT40926-20100A	BT40 IR20-100-EX	IR20	100	34	72	45.0	
T00BT40926-25100A	BT40 IR25-100-EX	IR25	100	42	69	38.0	
T00BT40926-32100A	BT40 IR32-100-EX	IR32	100	50	64	34.5	
T00BT40926-32100AG	BT40 IR32-100-EXG	IR32	100	50	64	34.5	
T00BT40926-40100A	BT40 IR40-100-EX	IR40	100	63	59	30.5	

BT50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	D	L	L1	G
T00BT50926-08070A	BT50 IR08-070-EX	IR08	70	12	69	50.6	M24
T00BT50926-8S070A	BT50 IR8S-070-EX	IR8S	70	16	69	50.6	
T00BT50926-11100A	BT50 IR11-100-EX	IR11	100	19	83	65.0	
T00BT50926-16100A	BT50 IR16-100-EX	IR16	100	28	75	46.0	
T00BT50926-20100A	BT50 IR20-100-EX	IR20	100	34	72	45.0	
T00BT50926-25110A	BT50 IR25-110-EX	IR25	110	42	79	48.0	
T00BT50926-32110A	BT50 IR32-110-EX	IR32	110	50	74	44.5	
T00BT50926-32110AG	BT50 IR32-110-EXG	IR32	110	50	74	44.5	
T00BT50926-40120A	BT50 IR40-120-EX	IR40	120	63	79	50.5	
T00BT50926-42120A	BT50 IR42-120-EX	IR42	120	85	79	50.5	

Order Number Instruction

T00 BT40 926 - 16 100 A




IPE SYSTEM TOOL HOLDER

EXTREME INFINITE Combination

EXTREME INFINITE Flexibility

EXTREME INFINITE Tooling efficiency

EXTREME INFINITE Rigidity

EXTREME INFINITE Performance,

and much more...

IPE SYSTEM TOOL HOLDERS

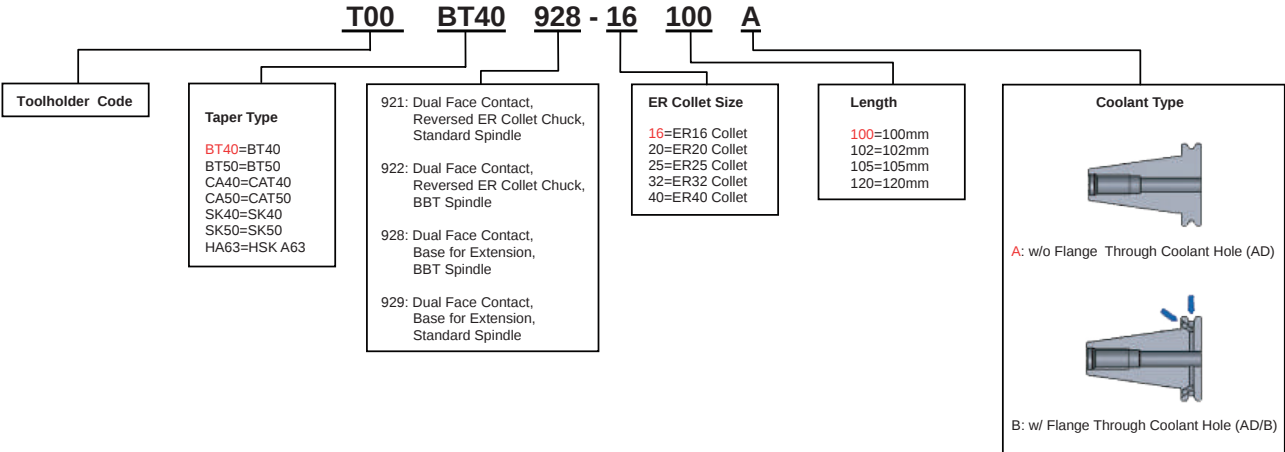
IPE SYSTEM - **REVERSED** ER COLLET CHUCK

IPE SYSTEM - **IR** EXTENSION BASE

IPE SYSTEM TOOL HOLDERS
(INFINITE PLUS EXTREME)

Order No Instruction

Example:T00BT40928-16100A



Note

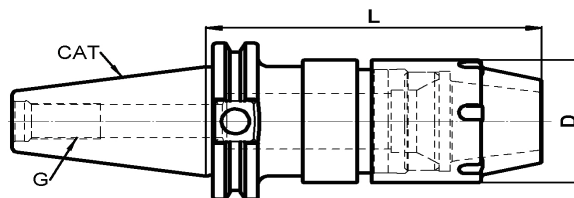
Example: T00BT40920-16100A Dual face contact, Reversed ER collet chuck, the part name is PBBT40 ER16-100-IN for BBT Spindle

REVERSED ER COLLET CHUCK - 921

PCAT 40-50

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



PCAT40 IPE SYSTEM, REVERSED ER COLLET CHUCK INCH, STANDARD SPINDLE

Order Number	Part Name	Base	Length	Range	D	L	G
T00CA40921-11102A	PCAT40 ER11-4.00"-IN	ER11	4.00"	1/16"~1/4"	0.75"	4.00"	5/8"-11
T00CA40921-16102A	PCAT40 ER16-4.00"-IN	ER16	4.00"	1/16"~13/32"	1.10"	4.00"	
T00CA40921-20102A	PCAT40 ER20-4.00"-IN	ER20	4.00"	1/16"~1/2"	1.34"	4.00"	
T00CA40921-25102A	PCAT40 ER25-4.00"-IN	ER25	4.00"	1/16"~5/8"	1.66"	4.00"	
T00CA40921-32120A	PCAT40 ER32-4.72"-IN	ER32	4.72"	3/32"~3/4"	1.97"	4.72"	
T00CA40921-40120A	PCAT40 ER40-4.72"-IN	ER40	4.72"	1/8"~1"	2.48"	4.72"	

PCAT50 IPE SYSTEM, REVERSED ER COLLET CHUCK INCH, STANDARD SPINDLE

Order Number	Part Name	Base	Length	Range	D	L	G
T00CA50921-16102A	PCAT50 ER16-4.00"-IN	ER16	4.00"	1/16"~13/32"	1.10"	4.00"	1"-8
T00CA50921-20102A	PCAT50 ER20-4.00"-IN	ER20	4.00"	1/16"~1/2"	1.34"	4.00"	
T00CA50921-25102A	PCAT50 ER25-4.00"-IN	ER25	4.00"	1/16"~5/8"	1.66"	4.00"	
T00CA50921-32102A	PCAT50 ER32-4.00"-IN	ER32	4.00"	3/32"~3/4"	1.97"	4.00"	
T00CA50921-40105A	PCAT50 ER40-4.13"-IN	ER40	4.13"	1/8"~1"	2.48"	4.13"	

PCAT IR EXTENSION BASE - 929

PCAT40 IPE SYSTEM, IR EXTENSION BASE INCH, STANDARD SPINDLE

Order Number	Part Name	Base	Length	Range	D	L	L1	G
T00CA40929-08072A	PCAT40 IR08-2.82"-EX	IR08	2.82"	X	0.47"	2.78"	2.055"	5/8"-11
T00CA40929-8S072A	PCAT40 IR8S-2.82"-EX	IR8S	2.82"	X	0.63"	2.78"	2.055"	
T00CA40929-11102A	PCAT40 IR11-4.00"-EX	IR11	4.00"	X	0.75"	3.33"	2.622"	
T00CA40929-16102A	PCAT40 IR16-4.00"-EX	IR16	4.00"	X	1.10"	3.00"	1.874"	
T00CA40929-20102A	PCAT40 IR20-4.00"-EX	IR20	4.00"	X	1.34"	2.88"	1.835"	
T00CA40929-25102A	PCAT40 IR25-4.00"-EX	IR25	4.00"	X	1.66"	2.78"	1.559"	
T00CA40929-32120A	PCAT40 IR32-4.72"-EX	IR32	4.72"	X	1.97"	3.29"	2.146"	
T00CA40929-32120AG	PCAT40 IR32-4.72"-EXG	IR32	4.72"	X	1.97"	3.29"	2.146"	
T00CA40929-40120A	PCAT40 IR40-4.72"-EX	IR40	4.72"	X	2.48"	3.11"	1.988"	

PCAT50 IPE SYSTEM, IR EXTENSION BASE INCH, STANDARD SPINDLE

Order Number	Part Name	Base	Length	Range	D	L	L1	G
T00CA50929-08072A	PCAT50 IR08-2.82"-EX	IR08	2.82"	X	0.47"	2.78"	2.055"	1"-8
T00CA50929-8S072A	PCAT50 IR8S-2.82"-EX	IR8S	2.82"	X	0.63"	2.78"	2.055"	
T00CA50929-11102A	PCAT50 IR11-4.00"-EX	IR11	4.00"	X	0.75"	3.33"	2.622"	
T00CA50929-16102A	PCAT50 IR16-4.00"-EX	IR16	4.00"	X	1.10"	3.00"	1.874"	
T00CA50929-20102A	PCAT50 IR20-4.00"-EX	IR20	4.00"	X	1.34"	2.88"	1.835"	
T00CA50929-25102A	PCAT50 IR25-4.00"-EX	IR25	4.00"	X	1.66"	2.78"	1.559"	
T00CA50929-32102A	PCAT50 IR32-4.00"-EX	IR32	4.00"	X	2.75"	2.56"	1.421"	
T00CA50929-32102AG	PCAT50 IR32-4.00"-EXG	IR32	4.00"	X	2.75"	2.56"	1.421"	
T00CA50929-40105A	PCAT50 IR40-4.13"-EX	IR40	4.13"	X	2.75"	2.52"	1.398"	



Order Number Instruction

T00 CA40 921 - 16 102 A

A: w/o flange through coolant, standard (AD type)
B: w/ flange through coolant, optional (AD/B type)

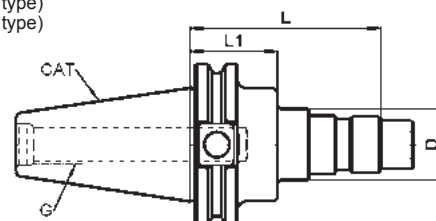
Length (L)

ER Collet size

921: Dual Face Contact, Reversed ER Collet Chuck, standard spindle
929: Dual Face Contact, IR Extension Base, standard spindle

Taper Type

Toolholder Code

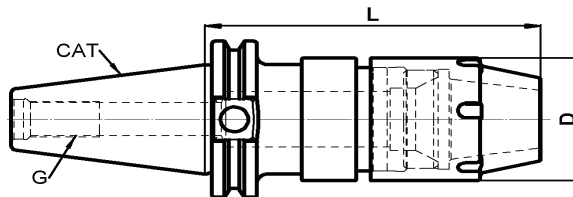


REVERSED ER COLLET CHUCK - 922

PBCAT 40-50

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



PBCAT40 IPE SYSTEM, REVERSED ER COLLET CHUCK INCH, BBT SPINDLE

Order Number	Part Name	Base	Length	Range	D	L	G
T00CA40922-11102A	PBCAT40 ER11-4.00"-IN	ER11	4.00"	1/16"~1/4"	0.75"	4.00"	5/8"-11
T00CA40922-16102A	PBCAT40 ER16-4.00"-IN	ER16	4.00"	1/16"~13/32"	1.10"	4.00"	
T00CA40922-20102A	PBCAT40 ER20-4.00"-IN	ER20	4.00"	1/16"~1/2"	1.34"	4.00"	
T00CA40922-25102A	PBCAT40 ER25-4.00"-IN	ER25	4.00"	1/16"~5/8"	1.66"	4.00"	
T00CA40922-32120A	PBCAT40 ER32-4.72"-IN	ER32	4.72"	3/32"~3/4"	1.97"	4.72"	
T00CA40922-40120A	PBCAT40 ER40-4.72"-IN	ER40	4.72"	1/8"~1"	2.48"	4.72"	

PBCAT50 IPE SYSTEM, REVERSED ER COLLET CHUCK INCH, BBT SPINDLE

Order Number	Part Name	Base	Length	Range	D	L	G
T00CA50922-16102A	PBCAT50 ER16-4.00"-IN	ER16	4.00"	1/16"~13/32"	1.10"	4.00"	1"-8
T00CA50922-20102A	PBCAT50 ER20-4.00"-IN	ER20	4.00"	1/16"~1/2"	1.34"	4.00"	
T00CA50922-25102A	PBCAT50 ER25-4.00"-IN	ER25	4.00"	1/16"~5/8"	1.66"	4.00"	
T00CA50922-32102A	PBCAT50 ER32-4.00"-IN	ER32	4.00"	3/32"~3/4"	1.97"	4.00"	
T00CA50922-40105A	PBCAT50 ER40-4.13"-IN	ER40	4.13"	1/8"~1"	2.48"	4.13"	

PBCAT IR EXTENSION BASE - 928

PBCAT40 IPE SYSTEM, IR EXTENSION BASE INCH, BBT SPINDLE

Order Number	Part Name	Base	Length	Range	D	L	L1	G
T00CA40928-08072A	PBCAT40 IR08-2.82"-EX	IR08	2.82"	X	0.47"	2.78"	2.055"	5/8"-11
T00CA40928-8S072A	PBCAT40 IR8S-2.82"-EX	IR8S	2.82"	X	0.63"	2.78"	2.055"	
T00CA40928-11102A	PBCAT40 IR11-4.00"-EX	IR11	4.00"	X	0.75"	3.33"	2.622"	
T00CA40928-16102A	PBCAT40 IR16-4.00"-EX	IR16	4.00"	X	1.10"	3.00"	1.874"	
T00CA40928-20102A	PBCAT40 IR20-4.00"-EX	IR20	4.00"	X	1.34"	2.88"	1.835"	
T00CA40928-25102A	PBCAT40 IR25-4.00"-EX	IR25	4.00"	X	1.66"	2.78"	1.559"	
T00CA40928-32120A	PBCAT40 IR32-4.72"-EX	IR32	4.72"	X	1.97"	3.29"	2.146"	
T00CA40928-32120AG	PBCAT40 IR32-4.72"-EXG	IR32	4.72"	X	1.97"	3.29"	2.146"	
T00CA40928-40120A	PBCAT40 IR40-4.72"-EX	IR40	4.72"	X	2.48"	3.11"	1.988"	

PBCAT50 IPE SYSTEM, IR EXTENSION BASE INCH, BBT SPINDLE

Order Number	Part Name	Base	Length	Range	D	L	L1	G
T00CA50928-08072A	PBCAT50 IR08-2.82"-EX	IR08	2.82"	X	0.47"	2.78"	2.055"	1"-8
T00CA50928-8S072A	PBCAT50 IR8S-2.82"-EX	IR8S	2.82"	X	0.63"	2.78"	2.055"	
T00CA50928-11102A	PBCAT50 IR11-4.00"-EX	IR11	4.00"	X	0.75"	3.33"	2.622"	
T00CA50928-16102A	PBCAT50 IR16-4.00"-EX	IR16	4.00"	X	1.10"	3.00"	1.874"	
T00CA50928-20102A	PBCAT50 IR20-4.00"-EX	IR20	4.00"	X	1.34"	2.88"	1.835"	
T00CA50928-25102A	PBCAT50 IR25-4.00"-EX	IR25	4.00"	X	1.66"	2.78"	1.559"	
T00CA50928-32102A	PBCAT50 IR32-4.00"-EX	IR32	4.00"	X	2.75"	2.56"	1.421"	
T00CA50928-32102AG	PBCAT50 IR32-4.00"-EXG	IR32	4.00"	X	2.75"	2.56"	1.421"	
T00CA50928-40105A	PBCAT50 IR40-4.13"-EX	IR40	4.13"	X	2.75"	2.52"	1.398"	



Order Number Instruction

T00 CA40 922 - 16 102 A

A: w/o flange through coolant, standard (AD type)
B: w/ flange through coolant, optional (AD/B type)

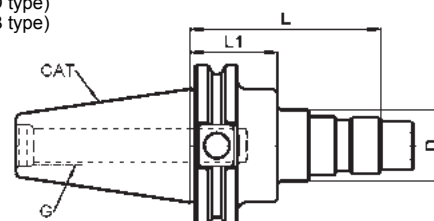
Length (L)

ER Collet size

922: Dual Face Contact, Reversed ER Collet Chuck, BBT spindle
928: Dual Face Contact, IR Extension Base, BBT spindle

Taper Type

Toolholder Code

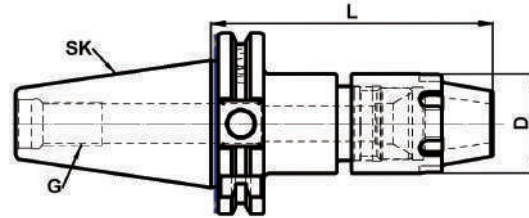


REVERSED ER COLLET CHUCK - 921

PSK 40-50

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



PSK40 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC STANDARD SPINDLE

Order Number	Part Name	ER size	Length	Range	D	L	G
T00SK40921-11100A	PSK40 ER11-100-IN	ER11	100	0.5~7	19	100	M16
T00SK40921-16100A	PSK40 ER16-100-IN	ER16	100	0.5~10	28	100	
T00SK40921-20100A	PSK40 ER20-100-IN	ER20	100	1~13	34	100	
T00SK40921-25100A	PSK40 ER25-100-IN	ER25	100	1~16	42	100	
T00SK40921-32100A	PSK40 ER32-100-IN	ER32	100	2~20	50	100	
T00SK40921-40120A	PSK40 ER40-120-IN	ER40	120	3~26	63	120	

PSK50 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC STANDARD SPINDLE

Order Number	Part Name	ER size	Length	Range	D	L	G
T00SK50921-11100A	PSK50 ER11-100-IN	ER11	100	0.5~7	19	100	M24
T00SK50921-16100A	PSK50 ER16-100-IN	ER16	100	0.5~10	28	100	
T00SK50921-20100A	PSK50 ER20-100-IN	ER20	100	1~13	34	100	
T00SK50921-25100A	PSK50 ER25-100-IN	ER25	100	1~16	42	100	
T00SK50921-32100A	PSK50 ER32-100-IN	ER32	100	2~20	50	100	
T00SK50921-40105A	PSK50 ER40-105-IN	ER40	105	3~26	63	105	

PSK IR EXTENSION BASE - 929

PSK40 IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

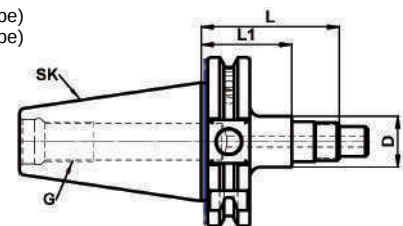
Order Number	Part Name	Base	Length	D	L	L1	G
T00SK40929-08050A	PSK40 IR08-050-EX	IR08	50	12	49	30.6	M16
T00SK40929-8S050A	PSK40 IR8S-050-EX	IR8S	50	16	49	30.6	
T00SK40929-11070A	PSK40 IR11-070-EX	IR11	70	19	53	35.0	
T00SK40929-16100A	PSK40 IR16-100-EX	IR16	100	28	75	46.0	
T00SK40929-20100A	PSK40 IR20-100-EX	IR20	100	34	72	45.0	
T00SK40929-25100A	PSK40 IR25-100-EX	IR25	100	42	69	38.0	
T00SK40929-32100A	PSK40 IR32-100-EX	IR32	100	50	64	34.5	
T00SK40929-32100AG	PSK40 IR32-100-EXG	IR32	100	50	64	34.5	
T00SK40929-40120A	PSK40 IR40-120-EX	IR40	120	63	79	50.5	

PSK50 IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	Length	D	L	L1	G
T00SK50929-08050A	PSK50 IR08-050-EX	IR08	50	12	49	30.6	M24
T00SK50929-8S050A	PSK50 IR8S-050-EX	IR8S	50	16	49	50.6	
T00SK50929-11100A	PSK50 IR11-100-EX	IR11	100	19	83	65.0	
T00SK50929-16100A	PSK50 IR16-100-EX	IR16	100	28	75	46.0	
T00SK50929-20100A	PSK50 IR20-100-EX	IR20	100	34	72	45.0	
T00SK50929-25100A	PSK50 IR25-100-EX	IR25	100	42	69	38.0	
T00SK50929-32100A	PSK50 IR32-100-EX	IR32	100	50	64	34.5	
T00SK50929-32100AG	PSK50 IR32-100-EXG	IR32	100	50	64	34.5	
T00SK50929-40105A	PSK50 IR40-105-EX	IR40	105	63	64	35.5	
T00SK50929-41105A	PSK50 IR41-105-EX	IR41	105	70	64	35.5	

Order Number Instruction

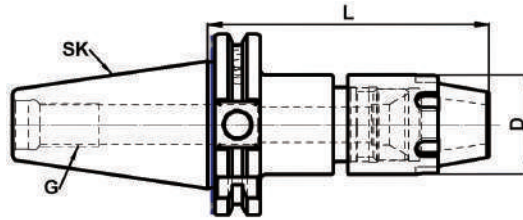
T00	SK40	921	-	16	100	A
Toolholder Code	Taper Type	921: Dual Face Contact, Reversed ER Collet Chuck, standard spindle 929: Dual Face Contact, IR Extension Base, standard spindle		ER Collet size	Length (L)	A: w/o flange through coolant, standard (AD type) B: w/ flange through coolant, optional (AD/B type)



REVERSED ER COLLET CHUCK - 922

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



PBSK40 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC, BBT SPINDLE

Order Number	Part Name	ER size	Length	Range	D	L	G
T00SK40922-11100A	PBSK40 ER11-100-IN	ER11	100	0.5~7	19	100	M16
T00SK40922-16100A	PBSK40 ER16-100-IN	ER16	100	0.5~10	28	100	
T00SK40922-20100A	PBSK40 ER20-100-IN	ER20	100	1~13	34	100	
T00SK40922-25100A	PBSK40 ER25-100-IN	ER25	100	1~16	42	100	
T00SK40922-32100A	PBSK40 ER32-100-IN	ER32	100	2~20	50	100	
T00SK40922-40120A	PBSK40 ER40-120-IN	ER40	120	3~26	63	120	

PBSK50 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC, BBT SPINDLE

Order Number	Part Name	ER size	Length	Range	D	L	G
T00SK50922-11100A	PBSK50 ER11-100-IN	ER11	100	0.5~7	19	100	M24
T00SK50922-16100A	PBSK50 ER16-100-IN	ER16	100	0.5~10	28	100	
T00SK50922-20100A	PBSK50 ER20-100-IN	ER20	100	1~13	34	100	
T00SK50922-25100A	PBSK50 ER25-100-IN	ER25	100	1~16	42	100	
T00SK50922-32100A	PBSK50 ER32-100-IN	ER32	100	2~20	50	100	
T00SK50922-40105A	PBSK50 ER40-105-IN	ER40	105	3~26	63	105	

PBSK IR EXTENSION BASE - 928

PBSK40 IPE SYSTEM, IR EXTENSION BASE METRIC, BBT SPINDLE

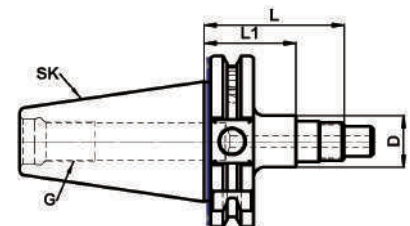
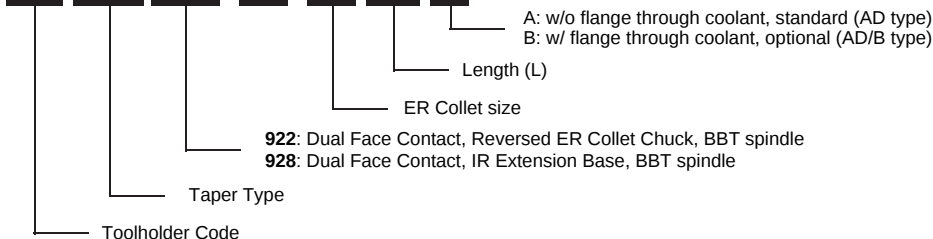
Order Number	Part Name	Base	Length	D	L	L1	G
T00SK40928-08050A	PBSK40 IR08-050-EX	IR08	50	12	49	30.6	M16
T00SK40928-8S050A	PBSK40 IR8S-050-EX	IR8S	50	16	49	30.6	
T00SK40928-11070A	PBSK40 IR11-070-EX	IR11	70	19	53	35.0	
T00SK40928-16100A	PBSK40 IR16-100-EX	IR16	100	28	75	46.0	
T00SK40928-20100A	PBSK40 IR20-100-EX	IR20	100	34	72	45.0	
T00SK40928-25100A	PBSK40 IR25-100-EX	IR25	100	42	69	38.0	
T00SK40928-32100A	PBSK40 IR32-100-EX	IR32	100	50	64	34.5	
T00SK40928-32100AG	PBSK40 IR32-100-EXG	IR32	100	50	64	34.5	
T00SK40928-40120A	PBSK40 IR40-120-EX	IR40	100	63	79	50.5	M24

PBSK50 IPE SYSTEM, IR EXTENSION BASE METRIC, BBT SPINDLE

Order Number	Part Name	Base	Length	D	L	L1	G
T00SK50928-08050A	PBSK50 IR08-050-EX	IR08	50	12	49	30.6	M24
T00SK50928-8S050A	PBSK50 IR8S-050-EX	IR8S	50	16	49	30.6	
T00SK50928-11100A	PBSK50 IR11-100-EX	IR11	100	19	83	65.0	
T00SK50928-16100A	PBSK50 IR16-100-EX	IR16	100	28	75	46.0	
T00SK50928-20100A	PBSK50 IR20-100-EX	IR20	100	34	72	45.0	
T00SK50928-25100A	PBSK50 IR25-100-EX	IR25	100	42	69	38.0	
T00SK50928-32100A	PBSK50 IR32-100-EX	IR32	100	50	64	34.5	
T00SK50928-32100AG	PBSK50 IR32-100-EXG	IR32	100	50	64	34.5	
T00SK50928-40105A	PBSK50 IR40-105-EX	IR40	105	63	64	35.5	M24
T00SK50928-41105A	PBSK50 IR41-105-EX	IR41	105	70	64	35.5	

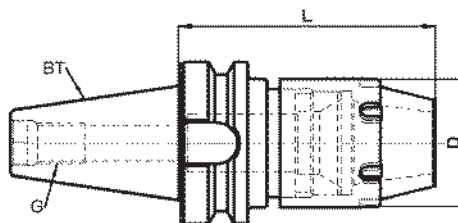
Order Number Instruction

T00 SK40 922 - 16 100 A



Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



PBT30 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC STANDARD SPINDLE

Order Number	Part Name	ER size	Length	Range	D	L	G
T00BT30921-11100A	PBT30 ER11-100-IN	ER11	100	0.5~7	19	100	M12
T00BT30921-16100A	PBT30 ER16-100-IN	ER16	100	0.5~10	28	100	
T00BT30921-20100A	PBT30 ER20-100-IN	ER20	100	1~13	34	100	
T00BT30921-25100A	PBT30 ER25-100-IN	ER25	100	1~16	42	100	
T00BT30921-32100A	PBT30 ER32-100-IN	ER32	100	2~20	50	100	

PBT40 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC STANDARD SPINDLE

Order Number	Part Name	ER size	Length	Range	D	L	G
T00BT40921-11100A	PBT40 ER11-100-IN	ER11	100	0.5~7	19	100	M16
T00BT40921-16100A	PBT40 ER16-100-IN	ER16	100	0.5~10	28	100	
T00BT40921-20100A	PBT40 ER20-100-IN	ER20	100	1~13	34	100	
T00BT40921-25100A	PBT40 ER25-100-IN	ER25	100	1~16	42	100	
T00BT40921-32100A	PBT40 ER32-100-IN	ER32	100	2~20	50	100	
T00BT40921-40100A	PBT40 ER40-100-IN	ER40	100	3~26	63	100	

PBT50 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC STANDARD SPINDLE

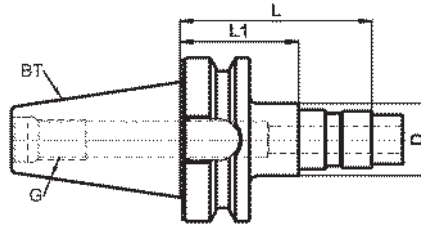
Order Number	Part Name	ER size	Length	Range	D	L	G
T00BT50921-11100A	PBT50 ER11-100-IN	ER11	100	0.5~7	19	100	M24
T00BT50921-16100A	PBT50 ER16-100-IN	ER16	100	0.5~10	28	100	
T00BT50921-20100A	PBT50 ER20-100-IN	ER20	100	1~13	34	100	
T00BT50921-25110A	PBT50 ER25-110-IN	ER25	110	1~16	42	110	
T00BT50921-32110A	PBT50 ER32-110-IN	ER32	110	2~20	50	110	
T00BT50921-40120A	PBT50 ER40-120-IN	ER40	120	3~26	63	120	

Order Number Instruction

T00	BT40	921	-	16	100	A
A: w/o flange through coolant, standard (AD type) B: w/ flange through coolant, optional (AD/B type)						
Length (L)						
ER Collet size						
921: Dual Face Contact, Reversed ER Collet Chuck, standard spindle						
Taper Type						
Toolholder Code						

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



PBT30 IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	Length	D	L	L1	G
T00BT30929-08070A	PBT30 IR8-070-EX	IR08	70	12	69	50.6	M12
T00BT30929-8S070A	PBT30 IR8S-070-EX	IR8S	70	16	69	50.6	
T00BT30929-11100A	PBT30 IR11-100-EX	IR11	100	19	83	65.0	
T00BT30929-16100A	PBT30 IR16-100-EX	IR16	100	28	75	46.0	
T00BT30929-20100A	PBT30 IR20-100-EX	IR20	100	34	72	45.0	
T00BT30929-25100A	PBT30 IR25-100-EX	IR25	100	42	69	38.0	
T00BT30929-32100A	PBT30 IR32-100-EX	IR32	100	50	64	34.5	
T00BT30929-32100AG	PBT30 IR32-100-EXG	IR32	100	50	64	34.5	

PBT40 IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	Length	D	L	L1	G
T00BT40929-08070A	PBT40 IR8-070-EX	IR08	70	12	69	50.6	M16
T00BT40929-8S070A	PBT40 IR8S-070-EX	IR8S	70	16	69	50.6	
T00BT40929-11070A	PBT40 IR11-070-EX	IR11	70	19	53	35.0	
T00BT40929-11100A	PBT40 IR11-100-EX	IR11	100	19	83	65.0	
T00BT40929-16100A	PBT40 IR16-100-EX	IR16	100	28	75	46.0	
T00BT40929-20100A	PBT40 IR20-100-EX	IR20	100	34	72	45.0	
T00BT40929-25100A	PBT40 IR25-100-EX	IR25	100	42	69	38.0	
T00BT40929-32100A	PBT40 IR32-100-EX	IR32	100	50	64	34.5	
T00BT40929-32100AG	PBT40 IR32-100-EXG	IR32	100	50	64	34.5	
T00BT40929-40100A	PBT40 IR40-100-EX	IR40	100	63	59	30.5	

PBT50 IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	Length	D	L	L1	G
T00BT50929-08070A	PBT50 IR8-070-EX	IR08	70	12	69	50.6	M24
T00BT50929-8S070A	PBT50 IR8S-070-EX	IR8S	70	16	69	50.6	
T00BT50929-11100A	PBT50 IR11-100-EX	IR11	100	19	83	65.0	
T00BT50929-16100A	PBT50 IR16-100-EX	IR16	100	28	75	46.0	
T00BT50929-20100A	PBT50 IR20-100-EX	IR20	100	34	72	45.0	
T00BT50929-25110A	PBT50 IR25-110-EX	IR25	110	42	79	48.0	
T00BT50929-32110A	PBT50 IR32-110-EX	IR32	110	50	74	44.5	
T00BT50929-32110AG	PBT50 IR32-110-EXG	IR32	110	50	74	44.5	
T00BT50929-40120A	PBT50 IR40-120-EX	IR40	120	63	79	50.5	
T00BT50929-42120A	PBT50 IR42-120-EX	IR42	120	85	79	50.5	

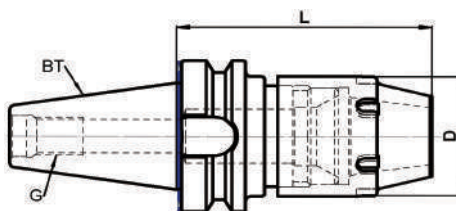
Order Number Instruction

T00 BT40 929 - 16 100 A

- T00: Toolholder Code
- BT40: Taper Type
- 929: Dual Face Contact, IR Extension Base, BBT spindle
- : Separator
- 16: ER Collet size
- 100: Length (L)
- A: w/o flange through coolant, standard (AD type)
B: w/ flange through coolant, optional (AD/B type)

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm


PBBT30 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC, BBT SPINDLE

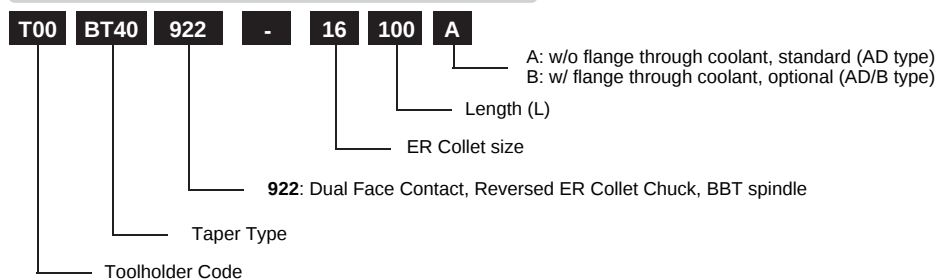
Order Number	Part Name	ER size	Length	Range	D	L	G
T00BT30922-11100A	PBBT30 ER11-100-IN	ER11	100	0.5~7	19	100	M12
T00BT30922-16100A	PBBT30 ER16-100-IN	ER16	100	0.5~10	28	100	
T00BT30922-20100A	PBBT30 ER20-100-IN	ER20	100	1~13	34	100	
T00BT30922-25100A	PBBT30 ER25-100-IN	ER25	100	1~16	42	100	
T00BT30922-32100A	PBBT30 ER32-100-IN	ER32	100	2~20	50	100	

PBBT40 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC, BBT SPINDLE

Order Number	Part Name	ER size	Length	Range	D	L	G
T00BT40922-11100A	PBBT40 ER11-100-IN	ER11	100	0.5~7	19	100	M16
T00BT40922-16100A	PBBT40 ER16-100-IN	ER16	100	0.5~10	28	100	
T00BT40922-20100A	PBBT40 ER20-100-IN	ER20	100	1~13	34	100	
T00BT40922-25100A	PBBT40 ER25-100-IN	ER25	100	1~16	42	100	
T00BT40922-32100A	PBBT40 ER32-100-IN	ER32	100	2~20	50	100	
T00BT40922-40100A	PBBT40 ER40-100-IN	ER40	100	3~26	63	100	

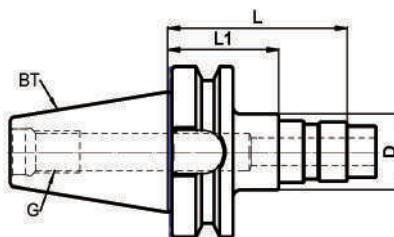
PBBT50 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC, BBT SPINDLE

Order Number	Part Name	ER size	Length	Range	D	L	G
T00BT50922-11100A	PBBT50 ER11-100-IN	ER11	100	0.5~7	19	100	M24
T00BT50922-16100A	PBBT50 ER16-100-IN	ER16	100	0.5~10	28	100	
T00BT50922-20100A	PBBT50 ER20-100-IN	ER20	100	1~13	34	100	
T00BT50922-25110A	PBBT50 ER25-110-IN	ER25	110	1~16	42	110	
T00BT50922-32110A	PBBT50 ER32-110-IN	ER32	110	2~20	50	110	
T00BT50922-40120A	PBBT50 ER40-120-IN	ER40	120	3~26	63	120	

Order Number Instruction


Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



PBBT30 IPE SYSTEM, IR EXTENSION BASE METRIC, BBT SPINDLE

Order Number	Part Name	Base	Length	D	L	L1	G
T00BT30928-08070A	PBBT30 IR08-070-EX	IR08	70	12	69	50.6	M12
T00BT30928-8S070A	PBBT30 IR8S-070-EX	IR8S	70	16	69	50.6	
T00BT30928-11100A	PBBT30 IR11-100-EX	IR11	100	19	83	65.0	
T00BT30928-16100A	PBBT30 IR16-100-EX	IR16	100	28	75	46.0	
T00BT30928-20100A	PBBT30 IR20-100-EX	IR20	100	34	72	45.0	
T00BT30928-25100A	PBBT30 IR25-100-EX	IR25	100	42	69	38.0	
T00BT30928-32100A	PBBT30 IR32-100-EX	IR32	100	50	64	34.5	
T00BT30928-32100AG	PBBT30 IR32-100-EXG	IR32	100	50	64	34.5	

PBBT40 IPE SYSTEM, IR EXTENSION BASE METRIC, BBT SPINDLE

Order Number	Part Name	Base	Length	D	L	L1	G
T00BT40928-08070A	PBBT40 IR08-070-EX	IR08	70	12	69	50.6	M16
T00BT40928-8S070A	PBBT40 IR8S-070-EX	IR8S	70	16	69	50.6	
T00BT40928-11070A	PBBT40 IR11-070-EX	IR11	70	19	53	35.0	
T00BT40928-11100A	PBBT40 IR11-100-EX	IR11	100	19	83	65.0	
T00BT40928-16100A	PBBT40 IR16-100-EX	IR16	100	28	75	46.0	
T00BT40928-20100A	PBBT40 IR20-100-EX	IR20	100	34	72	45.0	
T00BT40928-25100A	PBBT40 IR25-100-EX	IR25	100	42	69	38.0	
T00BT40928-32100A	PBBT40 IR32-100-EX	IR32	100	50	64	34.5	
T00BT40928-32100AG	PBBT40 IR32-100-EXG	IR32	100	50	64	34.5	
T00BT40928-40100A	PBBT40 IR40-100-EX	IR40	100	63	59	30.5	

PBBT50 IPE SYSTEM, IR EXTENSION BASE METRIC, BBT SPINDLE

Order Number	Part Name	Base	Length	D	L	L1	G
T00BT50928-08070A	PBBT50 IR08-070-EX	IR08	70	12	69	50.6	M24
T00BT50928-8S070A	PBBT50 IR8S-070-EX	IR8S	70	16	69	50.6	
T00BT50928-11100A	PBBT50 IR11-100-EX	IR11	100	19	83	65.0	
T00BT50928-16100A	PBBT50 IR16-100-EX	IR16	100	28	75	46.0	
T00BT50928-20100A	PBBT50 IR20-100-EX	IR20	100	34	72	45.0	
T00BT50928-25110A	PBBT50 IR25-110-EX	IR25	110	42	79	48.0	
T00BT50928-32110A	PBBT50 IR32-110-EX	IR32	110	50	74	44.5	
T00BT50928-32110AG	PBBT50 IR32-110-EXG	IR32	110	50	74	44.5	
T00BT50928-40120A	PBBT50 IR40-120-EX	IR40	120	63	79	50.5	
T00BT50928-42120A	PBBT50 IR42-120-EX	IR42	120	85	79	50.5	

Order Number Instruction

T00 BT40 928 - 16 100 A

- Toolholder Code
- Taper Type
- 928: Dual Face Contact, IR Extension Base, BBT spindle
- ER Collet size
- Length (L)
- A: w/o flange through coolant, standard (AD type)
B: w/ flange through coolant, optional (AD/B type)

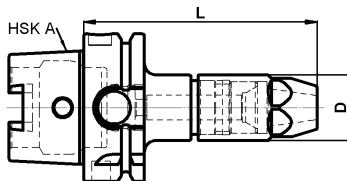
REVERSED ER COLLET CHUCK - 920

32-40-50-63

80-100-125

Quality

- Taper Angle Tolerance: $\pm 0.003\text{mm}$
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm ($0.00012''$)
- Balance: G6.3 25000 rpm
Option to G2.5 60000 rpm



HSK A32 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA32920-11080	HSK A32 ER11-080-IN	ER11	80	0.5~7	19	80	3.15"
T00HA32920-16080	HSK A32 ER16-080-IN	ER16	80	0.5~10	28	80	3.15"

HSK A40 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA40920-11080	HSK A40 ER11-080-IN	ER11	80	0.5~7	19	80	3.15"
T00HA40920-16080	HSK A40 ER16-080-IN	ER16	80	0.5~10	28	80	3.15"
T00HA40920-20080	HSK A40 ER20-080-IN	ER20	80	1~13	34	80	3.15"

HSK A50 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA50920-11100	HSK A50 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HA50920-16100	HSK A50 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HA50920-20100	HSK A50 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HA50920-25100	HSK A50 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HA50920-32110	HSK A50 ER32-110-IN	ER32	110	2~20	50	110	4.33"

HSK A63 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA63920-11100	HSK A63 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HA63920-16100	HSK A63 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HA63920-20100	HSK A63 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HA63920-25100	HSK A63 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HA63920-32110	HSK A63 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HA63920-40120	HSK A63 ER40-120-IN	ER40	120	3~26	63	120	4.72"

HSK A80 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA80920-11100	HSK A80 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HA80920-16100	HSK A80 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HA80920-20100	HSK A80 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HA80920-25100	HSK A80 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HA80920-32110	HSK A80 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HA80920-40120	HSK A80 ER40-120-IN	ER40	120	3~26	63	120	4.72"

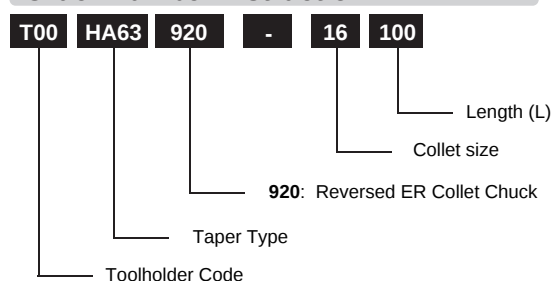
HSK A100 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA10920-16100	HSK A100 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HA10920-20100	HSK A100 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HA10920-25100	HSK A100 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HA10920-32110	HSK A100 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HA10920-40120	HSK A100 ER40-120-IN	ER40	120	3~26	63	120	4.72"

HSK A125 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA12920-16100	HSK A125 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HA12920-20100	HSK A125 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HA12920-25100	HSK A125 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HA12920-32110	HSK A125 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HA12920-40120	HSK A125 ER40-120-IN	ER40	120	3~26	63	120	4.72"

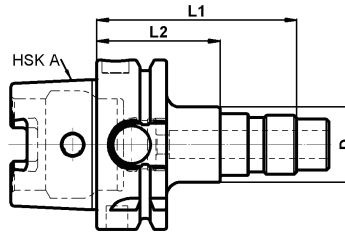
Order Number Instruction



HSK A - IR EXTENSION BASE - 926

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



HSK A32 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA32926-08050	HSK A32 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HA32926-8S050	HSK A32 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HA32926-11070	HSK A32 IR11-070-EX	IR11	70	x	19	53	35.0	2.76"

HSK A40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA40926-08050	HSK A40 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HA40926-8S050	HSK A40 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HA40926-11080	HSK A40 IR11-080-EX	IR11	80	x	19	63	45.0	3.15"
T00HA40926-16080	HSK A40 IR16-080-EX	IR16	80	x	28	55	26.0	3.15"
T00HA40926-20080	HSK A40 IR20-080-EX	IR20	80	x	34	52	25.0	3.15"

HSK A50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA50926-08050	HSK A50 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HA50926-8S050	HSK A50 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HA50926-11070	HSK A50 IR11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HA50926-16100	HSK A50 IR16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HA50926-20100	HSK A50 IR20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HA50926-25100	HSK A50 IR25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HA50926-32120	HSK A50 IR32-120-EX	IR32	120	x	50	84	54.5	4.33"

HSK A63 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA63926-08070	HSK A63 IR08-070-EX	IR08	70	x	12	69	50.6	2.76"
T00HA63926-8S070	HSK A63 IR8S-070-EX	IR8S	70	x	16	69	50.6	2.76"
T00HA63926-11070	HSK A63 IR11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HA63926-11100	HSK A63 IR11-100-EX	IR11	100	x	19	83	65.0	3.94"
T00HA63926-16100	HSK A63 IR16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HA63926-20100	HSK A63 IR20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HA63926-25100	HSK A63 IR25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HA63926-32110	HSK A63 IR32-110-EX	IR32	110	x	50	74	44.5	4.33"
T00HA63926-32110G	HSK A63 IR32-110-EXG	IR32	110	x	50	74	44.5	4.33"
T00HA63926-40120	HSK A63 IR40-120-EX	IR40	120	x	63	79	50.5	4.72"

HSK A80 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA80926-16100	HSK A80 IR16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HA80926-20100	HSK A80 IR20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HA80926-25100	HSK A80 IR25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HA80926-32110	HSK A80 IR32-110-EX	IR32	110	x	50	74	44.5	4.33"
T00HA80926-40120	HSK A80 IR40-120-EX	IR40	120	x	63	79	50.5	4.72"

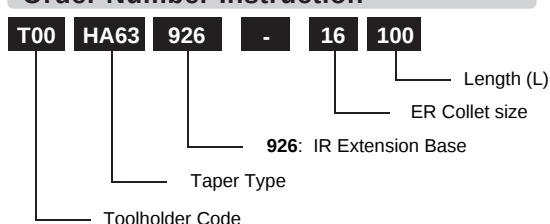
HSK A100 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA10926-08070	HSK A100 IR08-070-EX	IR08	70	x	12	69	50.6	2.76"
T00HA10926-8S070	HSK A100 IR8S-070-EX	IR8S	70	x	16	69	50.6	2.76"
T00HA10926-11100	HSK A100 IR11-100-EX	IR11	100	x	19	83	65.0	3.94"
T00HA10926-16100	HSK A100 IR16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HA10926-20100	HSK A100 IR20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HA10926-25100	HSK A100 IR25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HA10926-32110	HSK A100 IR32-110-EX	IR32	110	x	50	74	44.5	4.33"
T00HA10926-32110G	HSK A100 IR32-110-EXG	IR32	110	x	50	74	44.5	4.33"
T00HA10926-40120	HSK A100 IR40-120-EX	IR40	120	x	63	79	50.5	4.72"
T00HA10926-42120	HSK A100 IR42-120-EX	IR42	120	x	85	79	50.5	4.72"

HSK A125 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA12926-16100	HSK A125 IR16-100-EX	IR16	100	x	50	75	46.0	3.94"
T00HA12926-20100	HSK A125 IR20-100-EX	IR20	100	x	50	72	45.0	3.94"
T00HA12926-25110	HSK A125 IR25-110-EX	IR25	110	x	50	79	48.0	4.33"
T00HA12926-32110	HSK A125 IR32-110-EX	IR32	110	x	50	74	44.5	4.33"
T00HA12926-40120	HSK A125 IR40-120-EX	IR40	120	x	63	79	50.5	4.72"
T00HA12926-42120	HSK A125 IR42-120-EX	IR42	120	x	85	79	50.5	4.72"

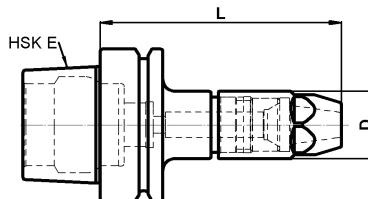
Order Number Instruction



REVERSED ER COLLET CHUCK - 920

Quality

- Taper Angle Tolerance: $\pm 0.003\text{mm}$
- Case Hardness: HRC 56 $\pm$ 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK E32 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HE32920-11080	HSK E32 ER11-080-IN	ER11	80	0.5~7	19	80	3.15"
T00HE32920-16080	HSK E32 ER16-080-IN	ER16	80	0.5~10	28	80	3.15"

HSK E40 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HE40920-11080	HSK E40 ER11-080-IN	ER11	80	0.5~7	19	80	3.15"
T00HE40920-16080	HSK E40 ER16-080-IN	ER16	80	0.5~10	28	80	3.15"
T00HE40920-20080	HSK E40 ER20-080-IN	ER20	80	1~13	34	80	3.15"

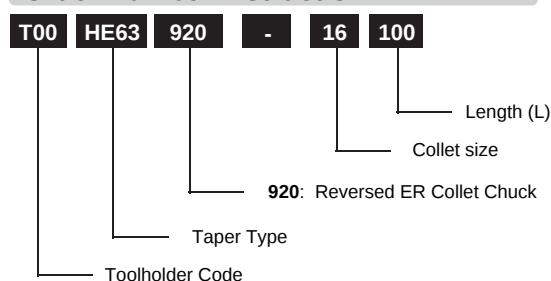
HSK E50 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HE50920-11100	HSK E50 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HE50920-16100	HSK E50 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HE50920-20100	HSK E50 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HE50920-25100	HSK E50 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HE50920-32110	HSK E50 ER32-110-IN	ER32	110	2~20	50	110	4.33"

HSK E63 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HE63920-11100	HSK E63 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HE63920-16100	HSK E63 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HE63920-20100	HSK E63 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HE63920-25100	HSK E63 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HE63920-32110	HSK E63 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HE63920-40120	HSK E63 ER40-120-IN	ER40	120	3~26	63	120	4.72"

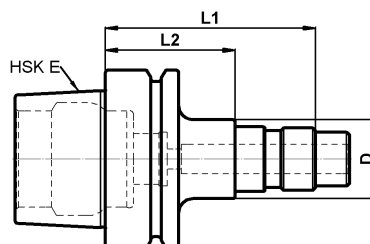
Order Number Instruction



HSK E - IR EXTENSION BASE - 926

Quality

- Taper Angle Tolerance: $\pm 0.003\text{mm}$
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm ($0.00012''$)
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK E25 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HE25926-08040	HSK E25 IR08-040-EX	IR08	40	x	12	39	20.6	1.57"
T00HE25926-8S040	HSK E25 IR8S-040-EX	IR8S	40	x	16	39	20.6	1.57"
T00HE25926-11050	HSK E25 IR11-050-EX	IR11	50	x	19	33	15.0	1.97"

HSK E32 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HE32926-08050	HSK E32 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HE32926-8S050	HSK E32 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HE32926-11070	HSK E32 IR11-070-EX	IR11	70	x	19	53	35.0	2.76"

HSK E40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HE40926-08050	HSK E40 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HE40926-8S050	HSK E40 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HE40926-11080	HSK E40 IR11-080-EX	IR11	80	x	19	63	45.0	3.15"
T00HE40926-16080	HSK E40 IR16-080-EX	IR16	80	x	28	55	26.0	3.15"
T00HE40926-20080	HSK E40 IR20-080-EX	IR20	80	x	34	52	25.0	3.15"

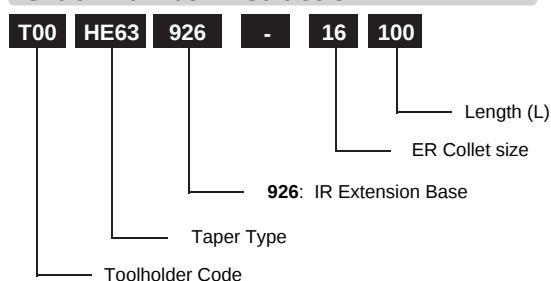
HSK E50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HE50926-08050	HSK E50 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HE50926-8S050	HSK E50 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HE50926-11070	HSK E50 IR11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HE50926-16100	HSK E50 IR16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HE50926-20100	HSK E50 IR20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HE50926-25110	HSK E50 IR25-110-EX	IR25	110	x	42	79	48.0	4.33"
T00HE50926-32120	HSK E50 IR32-120-EX	IR32	120	x	50	84	54.5	4.72"

HSK E63 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HE63926-08070	HSK E63 IR08-070-EX	IR08	70	x	12	69	50.6	2.76"
T00HE63926-8S070	HSK E63 IR8S-070-EX	IR8S	70	x	16	69	50.6	2.76"
T00HE63926-11070	HSK E63 IR11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HE63926-16100	HSK E63 IR16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HE63926-20100	HSK E63 IR20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HE63926-25100	HSK E63 IR25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HE63926-32110	HSK E63 IR32-110-EX	IR32	110	x	50	74	44.5	4.33"

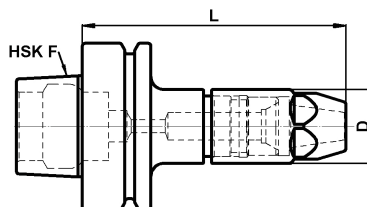
Order Number Instruction



REVERSED ER COLLET CHUCK - 920

Quality

- Taper Angle Tolerance: $\pm 0.003\text{mm}$
- Case Hardness: HRC 56 $\pm$ 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK F40 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HF40920-11080	HSK F40 ER11-080-IN	ER11	80	0.5~7	19	80	3.15"
T00HF40920-16080	HSK F40 ER16-080-IN	ER16	80	0.5~10	28	80	3.15"
T00HF40920-20080	HSK F40 ER20-080-IN	ER20	80	1~13	34	80	3.15"

HSK F50 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HF50920-11100	HSK F50 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HF50920-16100	HSK F50 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HF50920-20100	HSK F50 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HF50920-25100	HSK F50 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HF50920-32110	HSK F50 ER32-110-IN	ER32	110	2~20	50	110	4.33"

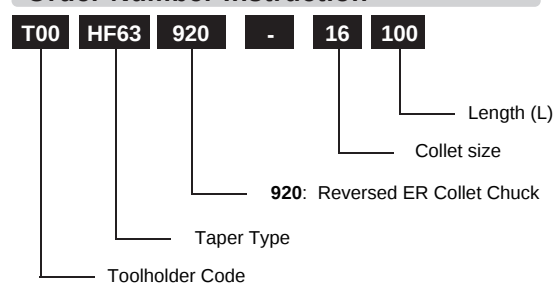
HSK F63 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HF63920-11100	HSK F63 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HF63920-16100	HSK F63 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HF63920-20100	HSK F63 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HF63920-25100	HSK F63 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HF63920-32110	HSK F63 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HF63920-40120	HSK F63 ER40-120-IN	ER40	120	3~26	63	120	4.72"

HSK F80 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HF80920-11100	HSK F80 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HF80920-16100	HSK F80 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HF80920-20100	HSK F80 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HF80920-25100	HSK F80 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HF80920-32110	HSK F80 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HF80920-40120	HSK F80 ER40-120-IN	ER40	120	3~26	63	120	4.72"

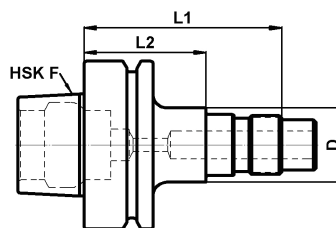
Order Number Instruction



HSK F - IR EXTENSION BASE - 926

Quality

- Taper Angle Tolerance: $\pm 0.003\text{mm}$
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm ($0.00012''$)
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK F40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HF40926-08050	HSK F40 ER08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HF40926-8S050	HSK F40 ER8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HF40926-11070	HSK F40 ER11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HF40926-16100	HSK F40 ER16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HF40926-20100	HSK F40 ER20-100-EX	IR20	100	x	34	72	45.0	3.94"

HSK F50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HF50926-08050	HSK F50 ER08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HF50926-8S050	HSK F50 ER8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HF50926-11070	HSK F50 ER11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HF50926-16100	HSK F50 ER16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HF50926-20100	HSK F50 ER20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HF50926-25110	HSK F50 ER25-110-EX	IR25	110	x	42	79	48.0	4.33"
T00HF50926-32120	HSK F50 ER32-120-EX	IR32	120	x	50	84	54.5	4.72"

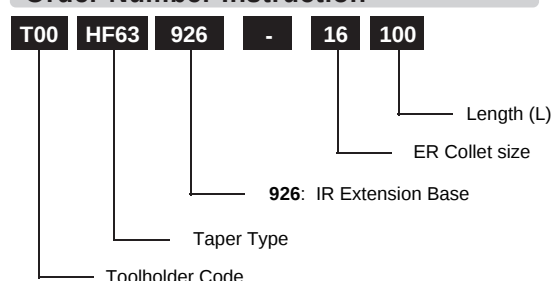
HSK F63 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HF63926-08050	HSK F63 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HF63926-8S050	HSK F63 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HF63926-11070	HSK F63 ER11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HF63926-16100	HSK F63 ER16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HF63926-20100	HSK F63 ER20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HF63926-25100	HSK F63 ER25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HF63926-32100	HSK F63 ER32-100-EX	IR32	100	x	50	64	34.5	3.94"
T00HF63926-40120	HSK F63 ER40-120-EX	IR40	120	x	63	79	50.5	4.72"

HSK F80 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HF80926-08050	HSK F80 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HF80926-8S050	HSK F80 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HF80926-11070	HSK F80 ER11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HF80926-16100	HSK F80 ER16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HF80926-20100	HSK F80 ER20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HF80926-25100	HSK F80 ER25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HF80926-32110	HSK F80 ER32-110-EX	IR32	110	x	50	74	44.5	4.33"
T00HF80926-40120	HSK F80 ER40-120-EX	IR40	120	x	63	79	50.5	4.72"

Order Number Instruction



I SYSTEM TOOL HOLDERS - IR EXTENSION



926
Extension Shank
IR BASE
T12ERXX926-XXXXX



926
Extension Shank
STRAIGHT BASE
T12SSXX926-XXXXX



926
Extension Shank
LATHE BASE W/FLAT
T12SSXX926-XXXXXL



M20
ER Collet Chuck
MINI NUT
T12ERXXM20-XXXXX



020
ER Collet Chuck
T12ERXX020-XXXXX



920
ER Collet Chuck
REVERSE
T12ERXX920-XXXXXX



030
End Mill Holder
COOLANT SLOT
T12ERXX030-XXXXX



040
End Mill Holder
T12ERXX040-XXXXX



050
End Mill Holder
WHISTLE
T12ERXX050-XXXXX



120
Shell Milling Holder
T12ERXX120-XXXXX



130
Shell Milling Holder
COOLANT SLOT
T12ERXX130-XXXXX



200
Screw-In Chuck
T12ERXX200-XXXXX



210
Slim Collet Chuck
T12ERXX210-XXXXX



220
Shrink-Fit Holder
4.5°
T12ERXX220-XXXXX



230
Shrink-Fit Holder
4.5° SLIM
T12ERXX230-XXXXX



240
ShrinkFit Holder
3°
T12ERXX240-XXXXX



250
ShrinkFit Holder
3° SLIM
T12ERXX250-XXXXX

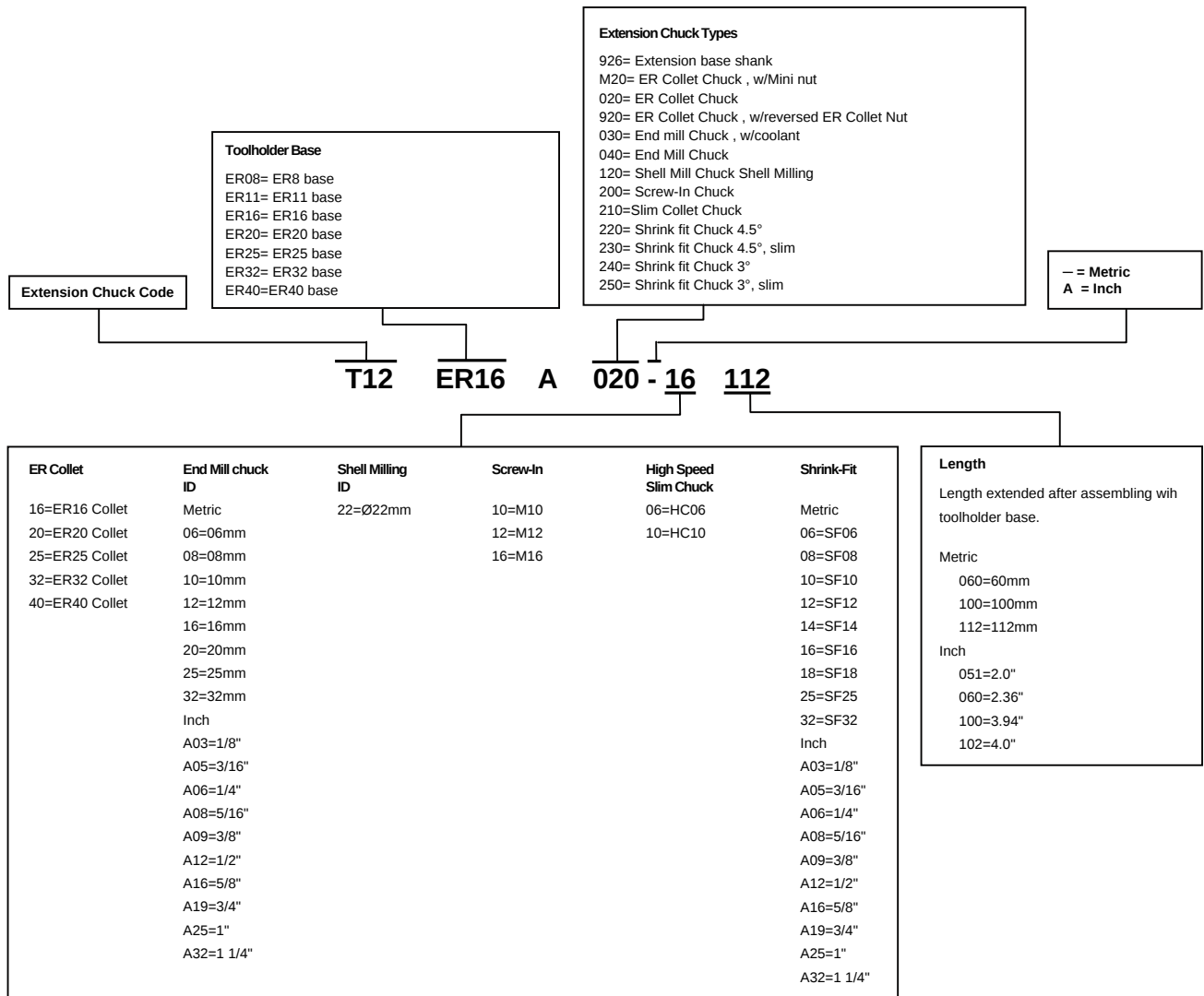


310
Blank
EXTENSION
T12ERXX310-XXXXX



G000
Test Arbor
EXTENSION
T12ERXXG000-XXXXX

Order No Instruction



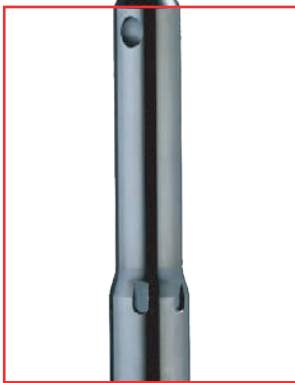
I SYSTEM TOOL HOLDERS (INFINITE) EXTENSION CHUCK

926 IR EXTENSION BASE			
926 STRAIGHT BASE			
926 LATHE BASE FLAT			
M20 ER COLLET CHUCK MINI NUT		020 ER COLLET CHUCK	
920 ER COLLET CHUCK REVERSED			
030 END MILL HOLDER COOLANT SLOT		040 END MILL HOLDER	
050 HOLDER END MILL HOLDER WHISTLE			
120 SHELL MILL HOLDER		130 SHELL MILL HOLDER COOLANT SLOT	
200 SCREW-IN CHUCK			
210 SLIM COLLET CHUCK			
220 SHRINK FIT 4.5°		230 SHRINK FIT 4.5° SLIM	
240 SHRINK FIT 3°		250 SHRINK FIT 3° SLIM	

I SYSTEM TOOL HOLDERS (INFINITE)

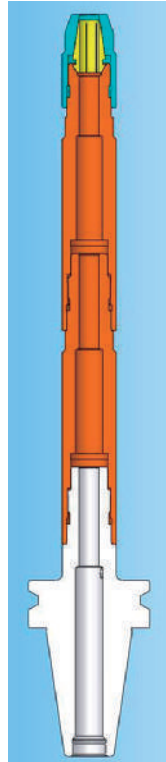
End Mill Holder Extension

Interchangeable between
ER Collet Chuck,
Screw-In Chuck,
High Speed Slim Chuck,
Shrink Fit Chuck and more.



BT40 Toolholder Base

Interchangeable between
BT50, CAT40, CAT50,
SK40, SK50, HSK A63,
HSK A100 Toolholder Base.



End Mill Holder Extension

Interchangeable between
ER Collet Chuck,
Screw-In Chuck,
High Speed Slim Chuck,
Shrink Fit Chuck and more.



Extension Base



Extension Base



BT40 Toolholder Base

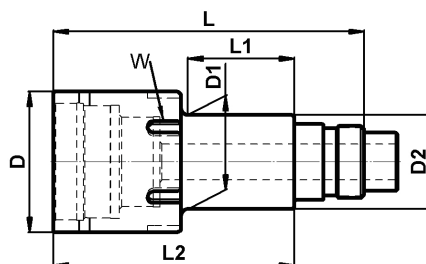
Interchangeable between
BT50, CAT40, CAT50,
SK40, SK50, HSK A63,
HSK A100 Toolholder Base.



IR EXTENSION BASE - 926 EXTENSION

Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 2500rpm



IR EXTENSION BASE METRIC

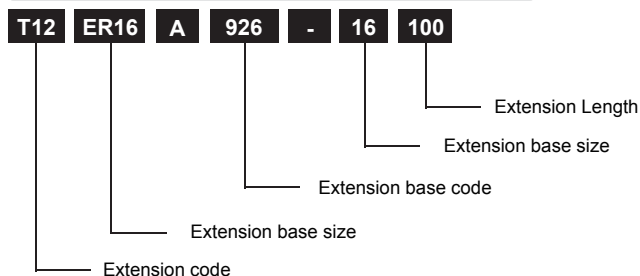
Order Number	Part Name	Base	Extension		D	D1	D2	L	L1	L2	W Wrench
			Size	Length							
T12ER08A926-08035	IR08-IR08-035-EX	IR08	IR08	35	12	12	12	54	X	35	T07IR0801
T12ER08A926-08050	IR08-IR08-050-EX	IR08	IR08	50	12	12	12	69	X	50	T07IR0801
T12ER08A926-08100	IR08-IR08-100-EX	IR08	IR08	100	12	12	12	119	X	100	T07IR0801
T12ER8SA926-08050	IR8S-IR08-050-EX	IR8S	IR08	50	16	14	12	69	14	50	T07IR8S01
T12ER8SA926-08100	IR8S-IR08-100-EX	IR8S	IR08	100	16	16	12	119	46	100	T07IR8S01
T12ER8SA926-8S050	IR8S-IR8S-050-EX	IR8S	IR8S	50	16	16	16	69	X	50	T07IR8S01
T12ER8SA926-8S100	IR8S-IR8S-100-EX	IR8S	IR8S	100	16	16	16	119	X	100	T07IR8S01
T12ER11A926-08020	IR11-IR08-020-EX	IR11	IR08	20	19	12	12	54	X	36	T07ER1101
T12ER11A926-08050	IR11-IR08-050-EX	IR11	IR08	50	19	15	12	84	29	66	T07ER1101
T12ER11A926-08070	IR11-IR08-070-EX	IR11	IR08	70	19	17	12	104	49	86	T07ER1101
T12ER11A926-08100	IR11-IR08-100-EX	IR11	IR08	100	19	19	12	134	80	116	T07ER1101
T12ER11A926-8S050	IR11-IR8S-050-EX	IR11	IR8S	50	19	16	16	84	29	66	T07ER1101
T12ER11A926-8S070	IR11-IR8S-070-EX	IR11	IR8S	70	19	16	16	104	49	86	T07ER1101
T12ER11A926-8S100	IR11-IR8S-100-EX	IR11	IR8S	100	19	16	16	134	79	116	T07ER1101
T12ER11A926-11100	IR11-IR11-100-EX	IR11	IR11	100	19	19	19	118	x	100	T07ER1101
T12ER11A926-11200	IR11-IR11-200-EX	IR11	IR11	200	19	19	19	218	x	200	T07ER1101
T12ER16A926-11050	IR16-IR11-050-EX	IR16	IR11	50	28	28	28	87	x	69	T07ER1601
T12ER16A926-11100	IR16-IR11-100-EX	IR16	IR11	100	28	19	19	137	55	119	T07ER1601
T12ER16A926-16100	IR16-IR16-100-EX	IR16	IR16	100	28	28	28	129	X	100	T07ER1601
T12ER16A926-16112	IR16-IR16-112-EX	IR16	IR16	112	28	28	28	141	x	112	T07ER1601
T12ER16A926-16200	IR16-IR16-200-EX	IR16	IR16	200	28	28	28	229	X	200	T07ER1601
T12ER20A926-16050	IR20-IR16-050-EX	IR20	IR16	50	34	34	34	80	X	51	T07IR2004
T12ER20A926-16100	IR20-IR16-100-EX	IR20	IR16	100	34	28	28	130	53	101	T07IR2004
T12ER20A926-16112	IR20-IR16-112-EX	IR20	IR16	112	34	28	28	142	65	113	T07IR2004
T12ER20A926-20100	IR20-IR20-100-EX	IR20	IR20	100	34	34	34	127	x	100	T07IR2004
T12ER20A926-20112	IR20-IR20-112-EX	IR20	IR20	112	34	34	34	139	x	112	T07IR2004
T12ER20A926-20200	IR20-IR20-200-EX	IR20	IR20	200	34	34	34	227	x	200	T07IR2004
T12ER25A926-16050	IR25-IR16-050-EX	IR25	IR16	50	42	42	42	87	x	58	T07ER2502
T12ER25A926-16100	IR25-IR16-100-EX	IR25	IR16	100	42	28	28	137	47	108	T07ER2502
T12ER25A926-16112	IR25-IR16-112-EX	IR25	IR16	112	42	28	28	149	59	120	T07ER2502
T12ER25A926-20050	IR25-IR20-050-EX	IR25	IR20	50	42	42	42	84	x	57	T07ER2502
T12ER25A926-20100	IR25-IR20-100-EX	IR25	IR20	100	42	34	34	134	46	107	T07ER2502
T12ER25A926-20112	IR25-IR20-112-EX	IR25	IR20	112	42	34	34	146	58	119	T07ER2502
T12ER25A926-25100	IR25-IR25-100-EX	IR25	IR25	100	42	42	42	131	x	100	T07IR2504
T12ER25A926-25112	IR25-IR25-112-EX	IR25	IR25	112	42	42	42	143	x	112	T07IR2504
T12ER25A926-25200	IR25-IR25-200-EX	IR25	IR25	200	42	42	42	231	x	200	T07IR2504
T12ER32A926-16050	IR32-IR16-050-EX	IR32	IR16	50	50	50	50	90	4	62	T07ER3202
T12ER32A926-16100	IR32-IR16-100-EX	IR32	IR16	100	50	28	28	140	54	112	T07ER3202
T12ER32A926-20050	IR32-IR20-050-EX	IR32	IR20	50	50	50	50	87	x	61	T07ER3202
T12ER32A926-20100	IR32-IR20-100-EX	IR32	IR20	100	50	34	34	137	40	111	T07ER3202
T12ER32A926-25055	IR32-IR25-055-EX	IR32	IR25	55	50	50	50	90	x	59	T07ER3202
T12ER32A926-25100	IR32-IR25-100-EX	IR32	IR25	100	50	42	42	135	77	104	T07ER3202
T12ER32A926-25112	IR32-IR25-112-EX	IR32	IR25	112	50	42	42	147	55	116	T07ER3202
T12ER32A926-32100	IR32-IR32-100-EX	IR32	IR32	100	50	50	50	129	x	100	T07IR3204
T12ER32A926-32200	IR32-IR32-200-EX	IR32	IR32	200	50	50	50	229	x	200	T07IR3204
T12ER40A926-25060	IR40-IR25-060-EX	IR40	IR25	60	63	42	42	89	10	108	T07ER4002
T12ER40A926-25100	IR40-IR25-100-EX	IR40	IR25	100	63	42	42	139	50	108	T07ER4002
T12ER40A926-25112	IR40-IR25-112-EX	IR40	IR25	112	63	42	42	151	62	120	T07ER4002
T12ER40A926-32060	IR40-IR32-060-EX	IR40	IR32	60	63	50	50	93	47	104	T07ER4002
T12ER40A926-32100	IR40-IR32-100-EX	IR40	IR32	100	63	50	50	133	47	104	T07ER4002
T12ER40A926-32112	IR40-IR32-112-EX	IR40	IR32	112	63	50	50	145	57	116	T07ER4002
T12ER40A926-40100	IR40-IR40-100-EX	IR40	IR40	100	63	63	63	129	x	100	T07IR4004
T12ER40A926-40112	IR40-IR40-112-EX	IR40	IR40	112	63	63	63	141	x	112	T07IR4004
T12ER40A926-41100	IR40-IR41-100-EX	IR40	IR41	100	63	70	70	129	40	100	T07IR4004
T12ER40A926-42100	IR40-IR42-100-EX	IR40	IR42	100	63	85	85	129	40	100	T07IR4004
T12ER41A926-41100	IR41-IR41-100-EX	IR41	IR41	100	70	70	70	129	x	100	T07IR4104
T12ER41A926-42100	IR41-IR42-100-EX	IR41	IR42	100	70	85	85	129	40	100	T07IR4104
T12ER42A926-42100	IR42-IR42-100-EX	IR42	IR42	100	85	85	85	129	x	100	T07IR4204

IR EXTENSION BASE - 926 EXTENSION

IR EXTENSION BASE INCH

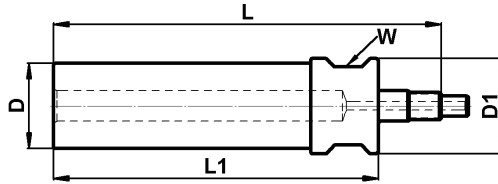
Order Number	Part Name	Base	Extension		D	D1	D2	L	L1	L2	W Wrench
			Size	Length							
T12ER08A926A08034	IR08-IR08-1.32"-EX	IR08	IR08	1.32"	0.470"	0.470"	0.470"	2.047"	x	1.32"	T07IR0801
T12ER08A926A08051	IR08-IR08-2.00"-EX	IR08	IR08	2.00"	0.470"	0.470"	0.470"	2.728"	x	2.00"	T07IR0801
T12ER08A926A08072	IR08-IR08-2.84"-EX	IR08	IR08	2.84"	0.470"	0.470"	0.470"	3.547"	x	2.84"	T07IR0801
T12ER08A926A08102	IR08-IR08-4.00"-EX	IR08	IR08	4.00"	0.470"	0.470"	0.470"	4.728"	x	4.00"	T07IR0801
T12ER8SA926A08102	IR8S-IR08-4.00"-EX	IR8S	IR08	4.00"	0.630"	0.470"	0.470"	4.728"	1.803"	4.00"	T07IR8S01
T12ER8SA926A8S102	IR8S-IR8S-4.00"-EX	IR8S	IR8S	4.00"	0.630"	0.630"	0.630"	4.728"	x	4.00"	T07IR8S01
T12ER8SA926A8S127	IR8S-IR8S-5.00"-EX	IR8S	IR8S	5.00"	0.630"	0.630"	0.630"	5.728"	x	5.00"	T07IR8S01
T12ER11A926A11102	IR11-IR11-4.00"-EX	IR11	IR11	4.00"	0.750"	0.750"	0.750"	4.709"	x	4.00"	T07ER1101
T12ER11A926A11127	IR11-IR11-5.00"-EX	IR11	IR11	5.00"	0.750"	0.750"	0.750"	5.709"	x	5.00"	T07ER1101
T12ER11A926A11203	IR11-IR11-8.00"-EX	IR11	IR11	8.00"	0.750"	0.750"	0.750"	8.709"	x	8.00"	T07ER1101
T12ER16A926A16102	IR16-IR16-4.00"-EX	IR16	IR16	4.00"	1.103"	1.103"	1.103"	5.122"	x	4.00"	T07ER1601
T12ER16A926A16127	IR16-IR16-5.00"-EX	IR16	IR16	5.00"	1.103"	1.103"	1.103"	6.122"	x	5.00"	T07ER1601
T12ER16A926A16203	IR16-IR16-8.00"-EX	IR16	IR16	8.00"	1.103"	1.103"	1.103"	9.122"	x	8.00"	T07ER1601
T12ER20A926A20102	IR20-IR20-4.00"-EX	IR20	IR20	4.00"	1.340"	1.340"	1.340"	5.043"	x	4.00"	T07IR2004
T12ER20A926A20127	IR20-IR20-5.00"-EX	IR20	IR20	5.00"	1.340"	1.340"	1.340"	6.043"	x	5.00"	T07IR2004
T12ER20A926A20203	IR20-IR20-8.00"-EX	IR20	IR20	8.00"	1.340"	1.340"	1.340"	9.043"	x	8.00"	T07IR2004
T12ER25A926A25102	IR25-IR25-4.00"-EX	IR25	IR25	4.00"	1.660"	1.660"	1.660"	5.221"	x	4.00"	T07IR2504
T12ER25A926A25127	IR25-IR25-5.00"-EX	IR25	IR25	5.00"	1.660"	1.660"	1.660"	6.221"	x	5.00"	T07IR2504
T12ER25A926A25203	IR25-IR25-8.00"-EX	IR25	IR25	8.00"	1.660"	1.660"	1.660"	9.221"	x	8.00"	T07IR2504
T12ER32A926A32102	IR32-IR32-4.00"-EX	IR32	IR32	4.00"	1.970"	1.970"	1.970"	5.142"	x	4.00"	T07IR3204
T12ER32A926A32127	IR32-IR32-5.00"-EX	IR32	IR32	5.00"	1.970"	1.970"	1.970"	6.142"	x	5.00"	T07IR3204
T12ER32A926A32203	IR32-IR32-8.00"-EX	IR32	IR32	8.00"	1.970"	1.970"	1.970"	9.142"	x	8.00"	T07IR3204
T12ER40A926A40102	IR40-IR40-4.00"-EX	IR40	IR40	4.00"	2.480"	2.480"	2.480"	5.122"	x	4.00"	T07IR4004
T12ER40A926A40127	IR40-IR40-5.00"-EX	IR40	IR40	5.00"	2.480"	2.480"	2.480"	6.122"	x	5.00"	T07IR4004
T12ER41A926A41102	IR41-IR41-4.00"-EX	IR41	IR41	4.00"	2.750"	2.750"	2.750"	5.122"	x	4.00"	T07IR4104
T12ER41A926A42102	IR41-IR42-4.00"-EX	IR41	IR42	4.00"	2.750"	3.350"	3.350"	5.122"	x	4.00"	T07IR4104

Order Number Instruction



Quality

- Shaft tolerance: H4
- Case Hardness: HRC56±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 25000rpm



IR EXTENSION BASE STRAIGHT METRIC

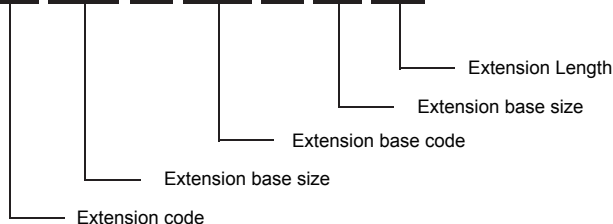
Order Number	Part Name	Base	Extension Size	Extension Length	D	D1	L	L1	W Wrench
T12SS08A926-8S096	SS8-IR8S-096-EX	SS08	IR8S	96	8	16	123	96	T07IR8S01
T12SS08A926-11096	SS8-IR11-096-EX	SS08	IR11	96	8	19	125	96	T07ER1101
T12SS12A926-11096	SS12-IR11-096-EX	SS12	IR11	96	12	19	125	96	T07ER1101
T12SS12A926-16096	SS12-IR16-096-EX	SS12	IR16	96	12	28	138	96	T07ER1601
T12SS16A926-11096	SS16-IR11-096-EX	SS16	IR11	96	16	19	125	96	T07ER1101
T12SS16A926-16096	SS16-IR16-096-EX	SS16	IR16	96	16	28	138	96	T07ER1601
T12SS19A926-8S096	SS19-IR8S-096-EX	SS19	IR8S	96	19	19	123	96	T07IR8S01
T12SS19A926-11096	SS19-IR11-096-EX	SS19	IR11	96	19	19	125	96	T07ER1101
T12SS19A926-16096	SS19-IR16-096-EX	SS19	IR16	96	19	28	138	96	T07ER1601
T12SS19A926-20096	SS19-IR20-096-EX	SS19	IR20	96	19	34	138	96	T07IR2004
T12SS19A926-25096	SS19-IR25-096-EX	SS19	IR25	96	19	42	143	96	T07IR2504
T12SS19A926-32096	SS19-IR32-096-EX	SS19	IR32	96	19	50	140	96	T07IR3204
T12SS25A926-11096	SS25-IR11-096-EX	SS25	IR11	96	25	19	125	96	T07ER1101
T12SS25A926-16096	SS25-IR16-096-EX	SS25	IR16	96	25	28	138	96	T07ER1601
T12SS25A926-20096	SS25-IR20-096-EX	SS25	IR20	96	25	34	138	96	T07IR2004
T12SS25A926-25096	SS25-IR25-096-EX	SS25	IR25	96	25	42	143	96	T07IR2504
T12SS25A926-32096	SS25-IR32-096-EX	SS25	IR32	96	25	50	140	96	T07IR3204
T12SS25A926-40096	SS25-IR40-096-EX	SS25	IR40	96	25	63	140	96	T07IR4004

IR EXTENSION BASE STRAIGHT INCH

Order Number	Part Name	Base	Extension Size	Extension Length	D	D1	L	L1	W Wrench
T12SS08A926A8S096	SS5/16"-IR8S-3.78"-EX	SS5/16"	IR8S	3.78"	5/16"	0.63"	4.823"	3.78"	T07IR8S01
T12SS08A926A11096	SS5/16"-IR11-3.78"-EX	SS5/16"	IR11	3.78"	5/16"	0.75"	4.921"	3.78"	T07ER1101
T12SS12A926A11096	SS1/2"-IR11-3.78"-EX	SS1/2"	IR11	3.78"	1/2"	0.75"	4.921"	3.78"	T07ER1101
T12SS12A926A16096	SS1/2"-IR16-3.78"-EX	SS1/2"	IR16	3.78"	1/2"	0.75"	5.413"	3.78"	T07ER1601
T12SS16A926A11096	SS5/8"-IR11-3.78"-EX	SS5/8"	IR11	3.78"	5/8"	0.75"	4.921"	3.78"	T07ER1101
T12SS16A926A16096	SS5/8"-IR16-3.78"-EX	SS5/8"	IR16	3.78"	5/8"	1.10"	5.413"	3.78"	T07ER1601
T12SS19A926A8S096	SS3/4"-IR8S-3.78"-EX	SS3/4"	IR8S	3.78"	3/4"	0.63"	4.823"	3.78"	T07IR8S01
T12SS19A926A11096	SS3/4"-IR11-3.78"-EX	SS3/4"	IR11	3.78"	3/4"	0.75"	4.921"	3.78"	T07ER1101
T12SS19A926A16096	SS3/4"-IR16-3.78"-EX	SS3/4"	IR16	3.78"	3/4"	1.10"	5.413"	3.78"	T07ER1601
T12SS19A926A20096	SS3/4"-IR20-3.78"-EX	SS3/4"	IR20	3.78"	3/4"	1.34"	5.413"	3.78"	T07IR2004
T12SS19A926A25096	SS3/4"-IR25-3.78"-EX	SS3/4"	IR25	3.78"	3/4"	1.34"	5.630"	3.78"	T07IR2504
T12SS19A926A32096	SS3/4"-IR32-3.78"-EX	SS3/4"	IR32	3.78"	3/4"	1.34"	5.512"	3.78"	T07IR3204
T12SS25A926A11096	SS1"-IR11-3.78"-EX	SS1"	IR11	3.78"	1"	0.75"	4.921"	3.78"	T07ER1101
T12SS25A926A16096	SS1"-IR16-3.78"-EX	SS1"	IR16	3.78"	1"	1.10"	5.413"	3.78"	T07ER1601
T12SS25A926A20096	SS1"-IR20-3.78"-EX	SS1"	IR20	3.78"	1"	1.34"	5.413"	3.78"	T07IR2004
T12SS25A926A25096	SS1"-IR25-3.78"-EX	SS1"	IR25	3.78"	1"	1.66"	5.630"	3.78"	T07IR2504
T12SS25A926A32096	SS1"-IR32-3.78"-EX	SS1"	IR32	3.78"	1"	1.97"	5.512"	3.78"	T07IR3204
T12SS25A926A40096	SS1"-IR40-3.78"-EX	SS1"	IR40	3.78"	1"	1.97"	5.492"	3.78"	T07IR4004

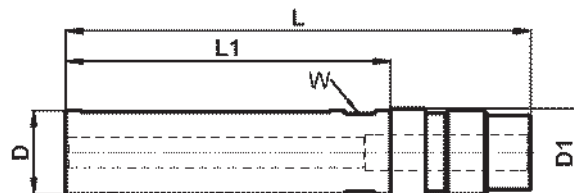
Order Number Instruction

T12 SS19 A 926 - 16 100



Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 25000rpm



IR EXTENSION BASE LATHE w/FLAT METRIC

Order Number	Part Name	Base	Extension		D	D1	L	L1	W Wrench
			Size	Length					
T12SS16A926-8S096L	SS16-IR8S-096-EXL	SS16	IR8S	96	16	16	122.5	96	T07IR8S01
T12SS16A926-11096L	SS16-IR11-096-EXL	SS16	IR11	96	16	19	125.0	96	T07ER1101
T12SS16A926-16096L	SS16-IR16-096-EXL	SS16	IR16	96	16	28	137.5	96	T07ER1601
T12SS20A926-8S096L	SS20-IR8S-096-EXL	SS20	IR8S	96	20	16	122.5	96	T07IR8S01
T12SS20A926-11096L	SS20-IR11-096-EXL	SS20	IR11	96	20	19	125.0	96	T07ER1101
T12SS20A926-16096L	SS20-IR16-096-EXL	SS20	IR16	96	20	28	137.5	96	T07ER1601
T12SS22A926-8S018L	SS22-IR8S-018-EXL	SS22	IR8S	18	22	16	67.7	43	T07IR8S01
T12SS25A926-8S096L	SS25-IR8S-096-EXL	SS25	IR8S	96	25	16	122.5	96	T07IR8S01
T12SS25A926-11096L	SS25-IR11-096-EXL	SS25	IR11	96	25	19	125.0	96	T07ER1101
T12SS25A926-16096L	SS25-IR16-096-EXL	SS25	IR16	96	25	28	137.5	96	T07ER1601
T12SS25A926-20096L	SS25-IR20-096-EXL	SS25	IR20	96	25	34	137.5	96	T07IR2004
T12SS25A926-25096L	SS25-IR25-096-EXL	SS25	IR25	96	25	42	143.0	96	T07IR2504
T12SS25A926-32096L	SS25-IR32-096-EXL	SS25	IR32	96	25	50	140.0	96	T07IR3204
T12SS25A926-40096L	SS25-IR40-096-EXL	SS25	IR40	96	25	63	139.5	96	T07IR4004
T12SS32A926-8S096L	SS32-IR8S-096-EXL	SS32	IR8S	96	32	16	122.5	96	T07IR8S01
T12SS32A926-11096L	SS32-IR11-096-EXL	SS32	IR11	96	32	19	125.0	96	T07ER1101
T12SS32A926-16096L	SS32-IR16-096-EXL	SS32	IR16	96	32	28	137.5	96	T07ER1601
T12SS32A926-20096L	SS32-IR20-096-EXL	SS32	IR20	96	32	34	137.5	96	T07IR2004
T12SS32A926-25096L	SS32-IR25-096-EXL	SS32	IR25	96	32	42	143.0	96	T07IR2504
T12SS32A926-32096L	SS32-IR32-096-EXL	SS32	IR32	96	32	50	140.0	96	T07IR3204
T12SS32A926-40096L	SS32-IR40-096-EXL	SS32	IR40	96	32	63	139.5	96	T07IR4004

IR EXTENSION BASE LATHE w/FLAT INCH

Order Number	Part Name	Base	Extension		D	D1	L	L1	W Wrench
			Size	Length					
T12SS19A926A8S096L	SS3/4"-IR8S-3.78"-EXL	SS3/4"	IR8S	3.78"	3/4"	0.63"	4.823"	3.78"	T07IR8S01
T12SS19A926A11096L	SS3/4"-IR11-3.78"-EXL	SS3/4"	IR11	3.78"	3/4"	0.75"	4.921"	3.78"	T07ER1101
T12SS19A926A16096L	SS3/4"-IR16-3.78"-EXL	SS3/4"	IR16	3.78"	3/4"	1.10"	5.413"	3.78"	T07ER1601
T12SS25A926A8S096L	SS1"-IR8S-3.78"-EXL	SS1"	IR8S	3.78"	1"	0.63"	4.823"	3.78"	T07IR8S01
T12SS25A926A11096L	SS1"-IR11-3.78"-EXL	SS1"	IR11	3.78"	1"	0.75"	4.921"	3.78"	T07ER1101
T12SS25A926A16096L	SS1"-IR16-3.78"-EXL	SS1"	IR16	3.78"	1"	1.10"	5.413"	3.78"	T07ER1601
T12SS25A926A20096L	SS1"-IR20-3.78"-EXL	SS1"	IR20	3.78"	1"	1.34"	5.413"	3.78"	T07IR2004
T12SS25A926A25096L	SS1"-IR25-3.78"-EXL	SS1"	IR25	3.78"	1"	1.66"	5.630"	3.78"	T07IR2504
T12SS25A926A32096L	SS1"-IR32-3.78"-EXL	SS1"	IR32	3.78"	1"	1.97"	5.512"	3.78"	T07IR3204
T12SS25A926A40096L	SS1"-IR40-3.78"-EXL	SS1"	IR40	3.78"	1"	1.97"	5.492"	3.78"	T07IR4004
T12SS32A926A8S096L	SS1 1/4"-IR8S-3.78"-EXL	SS1 1/4"	IR8S	3.78"	1 1/4"	0.63"	4.823"	3.78"	T07IR8S01
T12SS32A926A11096L	SS1 1/4"-IR11-3.78"-EXL	SS1 1/4"	IR11	3.78"	1 1/4"	0.75"	4.921"	3.78"	T07ER1101
T12SS32A926A16096L	SS1 1/4"-IR16-3.78"-EXL	SS1 1/4"	IR16	3.78"	1 1/4"	1.10"	5.413"	3.78"	T07ER1601
T12SS32A926A20096L	SS1 1/4"-IR20-3.78"-EXL	SS1 1/4"	IR20	3.78"	1 1/4"	1.34"	5.413"	3.78"	T07IR2004
T12SS32A926A25096L	SS1 1/4"-IR25-3.78"-EXL	SS1 1/4"	IR25	3.78"	1 1/4"	1.66"	5.630"	3.78"	T07IR2504
T12SS32A926A32096L	SS1 1/4"-IR32-3.78"-EXL	SS1 1/4"	IR32	3.78"	1 1/4"	1.97"	5.512"	3.78"	T07IR3204
T12SS32A926A40096L	SS1 1/4"-IR40-3.78"-EXL	SS1 1/4"	IR40	3.78"	1 1/4"	1.97"	5.492"	3.78"	T07IR4004

Order Number Instruction

T12	SS16	A	926	-	16	100	L	Lathe base code - w/ Flat
								Extension Length
								Extension base size
								Extension base code
								Shank base - OD size code
								Extension code

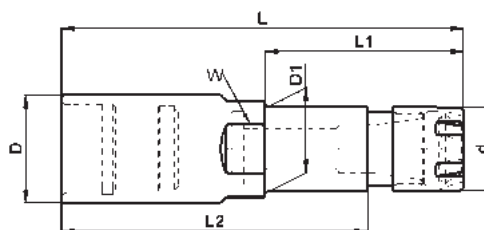


ER COLLET CHUCK MINI NUT - M20 EXTENSION

MINI NUT

Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 2500rpm



ER COLLET CHUCK MINI NUT METRIC

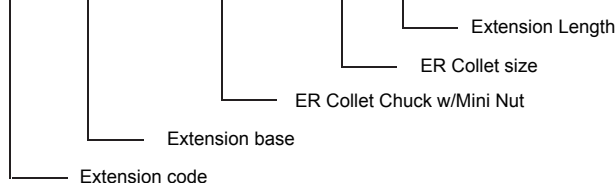
Order Number	Part Name	Base	Extension		D	D1	d	L	L1	L2	W Wrench
			Size	Length							
T12ER08AM20-08060	IR08-ER08-060M	IR08	ER08M	60	12	12	12	79.4	x	62.4	T07IR0801
T12ER08AM20-08090	IR08-ER08-090M	IR08	ER08M	90	12	12	12	109.4	x	92.4	T07IR0801
T12ER08AM20-08100	IR08-ER08-100M	IR08	ER08M	100	12	12	12	119.4	x	102.4	T07IR0801
T12ER08AM20-08130	IR08-ER08-130M	IR08	ER08M	130	12	12	12	149.4	x	132.4	T07IR0801
T12ER8SAM20-08060	IR8S-ER08-060M	IR8S	ER08M	60	16	12	12	80	51	63	T07IR8S01
T12ER8SAM20-08100	IR8S-ER08-100M	IR8S	ER08M	100	16	12	12	120	91	133	T07IR8S01
T12ER8SAM20-11030	IR8S-ER11-030M	IR8S	ER11M	30	16	16	16	49.4	x	30.8	T07IR8S01
T12ER8SAM20-11060	IR8S-ER11-060M	IR8S	ER11M	60	16	16	16	79.4	x	60.8	T07IR8S01
T12ER8SAM20-11100	IR8S-ER11-100M	IR8S	ER11M	100	16	16	16	119.4	x	100.8	T07IR8S01
T12ER11AM20-08060	IR11-ER08-060M	IR11	ER08M	60	19	12	12	95	59	79	T07ER1101
T12ER11AM20-08100	IR11-ER08-100M	IR11	ER08M	100	19	12	12	135	99	119	T07ER1101
T12ER11AM20-11023	IR11-ER11-023M	IR11	ER11M	23	19	16	16	58	22	40	T07ER1101
T12ER11AM20-11060	IR11-ER11-060M	IR11	ER11M	60	19	16	16	95	59	76.4	T07ER1101
T12ER11AM20-11100	IR11-ER11-100M	IR11	ER11M	100	19	16	16	135	99	116.4	T07ER1101
T12ER16AM20-11060	IR16-ER11-060M	IR16	ER11M	60	28	16	16	114	61	95.4	T07ER1601
T12ER16AM20-11100	IR16-ER11-100M	IR16	ER11M	100	28	16	16	154	101	135.4	T07ER1601
T12ER16AM20-16060	IR16-ER16-060M	IR16	ER16M	60	28	22	22	114	61	89	T07ER1601
T12ER16AM20-16100	IR16-ER16-100M	IR16	ER16M	100	28	22	22	154	101	129	T07ER1601
T12ER16AM20-20060	IR16-ER20-060M	IR16	ER20M	60	28	28	28	114	x	86	T07ER1601
T12ER16AM20-20100	IR16-ER20-100M	IR16	ER20M	100	28	28	28	154	x	126	T07ER1601

ER COLLET CHUCK MINI NUT INCH

Order Number	Part Name	Base	Extension		D	D1	d	L	L1	L2	W Wrench
			Size	Length							
T12ER08AM20A08051	IR08-ER08-2.00"M	IR08	ER08M	2.00"	0.47"	0.47"	0.47"	2.79"	X	2.14"	T07IR0801
T12ER08AM20A08081	IR08-ER08-3.19"M	IR08	ER08M	3.19"	0.47"	0.47"	0.47"	3.97"	X	3.32"	T07IR0801
T12ER08AM20A08102	IR08-ER08-4.00"M	IR08	ER08M	4.00"	0.47"	0.47"	0.47"	4.79"	X	4.20"	T07IR0801
T12ER08AM20A08132	IR08-ER08-5.19"M	IR08	ER08M	5.19"	0.47"	0.47"	0.47"	5.97"	X	5.32"	T07IR0801
T12ER8SAM20A08051	IR8S-ER08-2.00"M	IR8S	ER08M	2.00"	0.63"	0.47"	0.47"	2.79"	1.65"	2.14"	T07IR8S01
T12ER8SAM20A08102	IR8S-ER08-4.00"M	IR8S	ER08M	4.00"	0.63"	0.47"	0.47"	4.79"	3.65"	4.14"	T07IR8S01
T12ER8SAM20A11051	IR8S-ER11-2.00"M	IR8S	ER11M	2.00"	0.63"	0.63"	0.63"	2.76"	x	2.14"	T07IR8S01
T12ER8SAM20A11102	IR8S-ER11-4.00"M	IR8S	ER11M	4.00"	0.63"	0.63"	0.63"	4.76"	x	4.14"	T07IR8S01
T12ER11AM20A08051	IR11-ER08-2.00"M	IR11	ER08M	2.00"	0.75"	0.47"	0.47"	3.39"	1.11"	2.75"	T07ER1101
T12ER11AM20A08102	IR11-ER08-4.00"M	IR11	ER08M	4.00"	0.75"	0.47"	0.47"	5.39"	3.11"	4.76"	T07ER1101
T12ER11AM20A11051	IR11-ER11-2.00"M	IR11	ER11M	2.00"	0.75"	0.63"	0.63"	3.39"	1.97"	2.56"	T07ER1101
T12ER11AM20A11102	IR11-ER11-4.00"M	IR11	ER11M	4.00"	0.75"	0.63"	0.63"	5.39"	3.97"	4.65"	T07ER1101
T12ER16AM20A11051	IR16-ER11-2.00"M	IR16	ER11M	2.00"	1.10"	0.63"	0.63"	4.13"	2.04"	3.39"	T07ER1601
T12ER16AM20A11102	IR16-ER11-4.00"M	IR16	ER11M	4.00"	1.10"	0.63"	0.63"	6.13"	4.04"	5.39"	T07ER1601
T12ER16AM20A16051	IR16-ER16-2.00"M	IR16	ER16M	2.00"	1.10"	0.87"	0.87"	4.13"	2.04"	3.14"	T07ER1601
T12ER16AM20A16102	IR16-ER16-4.00"M	IR16	ER16M	4.00"	1.10"	0.87"	0.87"	6.13"	4.04"	5.14"	T07ER1601
T12ER16AM20A20051	IR16-ER20-2.00"M	IR16	ER20M	2.00"	1.10"	1.10"	1.10"	4.13"	x	3.02"	T07ER1601
T12ER16AM20A20102	IR16-ER20-4.00"M	IR16	ER20M	4.00"	1.10"	1.10"	1.10"	6.13"	x	5.02"	T07ER1601

Order Number Instruction

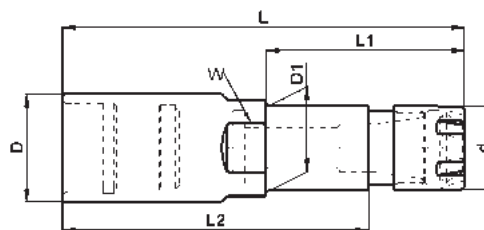
T12 ER16 A M20 - 16 060



ER COLLET CHUCK - 020 EXTENSION

Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 2500rpm



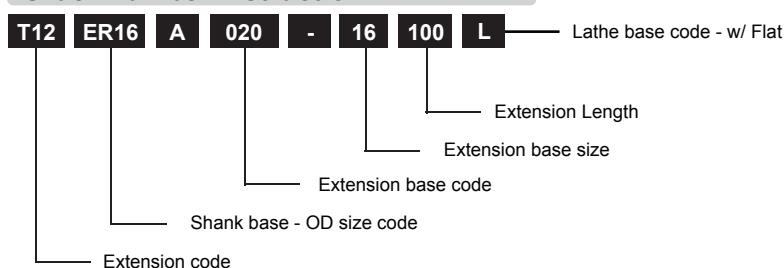
ER COLLET CHUCK **METRIC**

Order Number	Part Name	Base	Extension		D	D1	d	L	L1	L2	W Wrench
			Size	Length							
T12ER11A020-11060	IR11-ER11-060	IR11	ER11	60	19	19	19	95	x	78	T07ER1101
T12ER11A020-11100	IR11-ER11-100	IR11	ER11	100	19	19	19	135	x	118	T07ER1101
T12ER16A020-11060	IR16-ER11-060	IR16	ER11	60	28	19	19	114	48.5	97	T07ER1601
T12ER16A020-11100	IR16-ER11-100	IR16	ER11	100	28	19	19	154	88.5	137	T07ER1601
T12ER16A020-16060	IR16-ER16-060	IR16	ER16	60	28	28	28	115	x	88.5	T07ER1601
T12ER16A020-16100	IR16-ER16-100	IR16	ER16	100	28	28	28	155	x	128.5	T07ER1601
T12ER16A020-16112	IR16-ER16-112	IR16	ER16	112	28	28	28	167	x	140.5	T07ER1601
T12ER20A020-16100	IR20-ER16-100	IR20	ER16	100	34	28	28	156	105.6	129.5	T07IR2004
T12ER20A020-16112	IR20-ER16-112	IR20	ER16	112	34	28	28	168	117.6	141.5	T07IR2004
T12ER20A020-20060	IR20-ER20-060	IR20	ER20	60	34	34	34	117	x	89	T07IR2004
T12ER20A020-20100	IR20-ER20-100	IR20	ER20	100	34	34	34	157	x	129	T07IR2004
T12ER20A020-20112	IR20-ER20-112	IR20	ER20	112	34	34	34	166	x	141	T07IR2004
T12ER25A020-16100	IR25-ER16-100	IR25	ER16	100	42	28	28	163	104.5	136.5	T07ER2502
T12ER25A020-16112	IR25-ER16-112	IR25	ER16	112	42	28	28	175	116.5	148.5	T07ER2502
T12ER25A020-20100	IR25-ER20-100	IR25	ER20	100	42	34	34	164	104.5	136	T07ER2502
T12ER25A020-25060	IR25-ER25-060	IR25	ER25	60	42	42	42	122	x	90	T07ER2504
T12ER25A020-25100	IR25-ER25-100	IR25	ER25	100	42	42	42	162	x	130	T07ER2504
T12ER32A020-16100	IR32-ER16-100	IR32	ER16	100	50	28	28	166	109	140	T07ER3202
T12ER32A020-16112	IR32-ER16-112	IR32	ER16	112	50	28	28	178	121	152	T07ER3202
T12ER32A020-20100	IR32-ER20-100	IR32	ER20	100	50	35	34	166	86	137.5	T07ER3202
T12ER32A020-20112	IR32-ER20-112	IR32	ER20	112	50	35	34	178	98	149.5	T07ER3202
T12ER32A020-25100	IR32-ER25-100	IR32	ER25	100	50	42	42	166	106	108.5	T07ER3202
T12ER32A020-25112	IR32-ER25-112	IR32	ER25	112	50	42	42	178	118	120.5	T07ER3202
T12ER32A020-32060	IR32-ER32-060	IR32	ER32	60	50	50	50	126	x	94	T07IR3204
T12ER32A020-32100	IR32-ER32-100	IR32	ER32	100	50	50	50	166	x	134	T07IR3204
T12ER32A020-32112	IR32-ER32-112	IR32	ER32	112	50	50	50	178	x	146	T07IR3204
T12ER40A020-25100	IR40-ER25-100	IR40	ER25	100	63	42	42	170	141	112.5	T07ER4002
T12ER40A020-25112	IR40-ER25-112	IR40	ER25	112	63	42	42	182	153	124.5	T07ER4002
T12ER40A020-32100	IR40-ER32-100	IR40	ER32	100	63	50	50	170	112	138	T07ER4002
T12ER40A020-32112	IR40-ER32-112	IR40	ER32	112	63	50	50	182	124	150	T07ER4002
T12ER40A020-40060	IR40-ER40-060	IR40	ER40	60	63	63	63	130	x	92.5	T07IR4004
T12ER40A020-40100	IR40-ER40-100	IR40	ER40	100	63	63	63	170	x	132.5	T07IR4004
T12ER40A020-40112	IR40-ER40-112	IR40	ER40	112	63	63	63	182	x	144.5	T07IR4004

ER COLLET CHUCK **INCH**

Order Number	Part Name	Base	Extension		D	D1	d	L	L1	L2	W Wrench
			Size	Length							
T12ER11A020A11051	IR11-ER11-2.00"	IR11	ER11	2.00"	0.75"	0.75"	0.47"	3.38"	x	2.71"	T07ER1101
T12ER11A020A11102	IR11-ER11-4.00"	IR11	ER11	4.00"	0.75"	0.75"	0.47"	5.38"	x	4.71"	T07ER1101
T12ER16A020A11051	IR16-ER11-2.00"	IR16	ER11	2.00"	1.10"	1.10"	0.75"	4.13"	1.55"	3.46"	T07ER1601
T12ER16A020A11102	IR16-ER11-4.00"	IR16	ER11	4.00"	1.10"	1.10"	0.75"	6.13"	3.55"	5.46"	T07ER1601
T12ER16A020A16051	IR16-ER16-2.00"	IR16	ER16	2.00"	1.10"	1.10"	1.10"	4.16"	x	3.13"	T07ER1601
T12ER16A020A16102	IR16-ER16-4.00"	IR16	ER16	4.00"	1.10"	1.10"	1.10"	6.16"	x	5.13"	T07ER1601
T12ER20A020A20051	IR20-ER20-2.00"	IR20	ER20	2.00"	1.34"	1.34"	1.34"	4.23"	x	3.14"	T07IR2004
T12ER20A020A20102	IR20-ER20-4.00"	IR20	ER20	4.00"	1.34"	1.34"	1.34"	6.23"	x	5.14"	T07IR2004
T12ER25A020A25051	IR25-ER25-2.00"	IR25	ER25	2.00"	1.66"	1.66"	1.66"	4.44"	x	3.18"	T07IR2504
T12ER25A020A25102	IR25-ER25-4.00"	IR25	ER25	4.00"	1.66"	1.66"	1.66"	6.44"	x	5.18"	T07IR2504
T12ER32A020A32051	IR32-ER32-2.00"	IR32	ER32	2.00"	1.97"	1.97"	1.97"	4.58"	x	3.34"	T07IR3204
T12ER32A020A32102	IR32-ER32-4.00"	IR32	ER32	4.00"	1.97"	1.97"	1.97"	6.58"	x	5.34"	T07IR3204
T12ER40A020A40051	IR40-ER40-2.00"	IR40	ER40	2.00"	2.48"	2.48"	2.48"	4.74"	x	3.28"	T07IR4004
T12ER40A020A40102	IR40-ER40-4.00"	IR40	ER40	4.00"	2.48"	2.48"	2.48"	6.74"	x	5.28"	T07IR4004

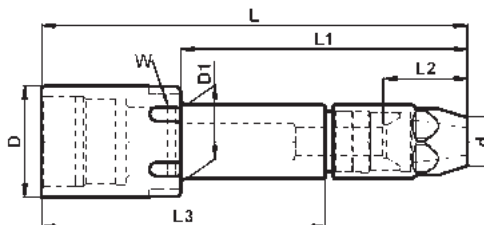
Order Number Instruction



REVERSED ER COLLET CHUCK - 920 EXTENSION **REVERSED**

Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 25000rpm



REVERSED ER COLLET CHUCK **METRIC**

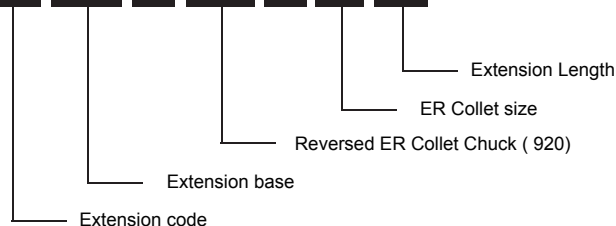
Order Number	Part Name	Base	Extension		D	D1	d	L	L1	L2	L3	W Wrench
			Size	Length								
T12ER16A920-16060	IR16-ER16-060-IN	IR16	ER16-IN	60	28	28	19	114	114	19	x	T07ER1601
T12ER16A920-16100	IR16-ER16-100-IN	IR16	ER16-IN	100	28	28	19	154	154	19	x	T07ER1601
T12ER16A920-16112	IR16-ER16-112-IN	IR16	ER16-IN	112	28	28	19	166	166	19	x	T07ER1601
T12ER20A920-16100	IR20-ER16-100-IN	IR20	ER16-IN	100	34	28	19	155	102	19	101	T07IR2004
T12ER20A920-16112	IR20-ER16-112-IN	IR20	ER16-IN	112	34	28	19	167	114	19	113	T07IR2004
T12ER20A920-20060	IR20-ER20-060-IN	IR20	ER20-IN	60	34	34	23	110	110	20	x	T07IR2004
T12ER20A920-20100	IR20-ER20-100-IN	IR20	ER20-IN	100	34	34	23	150	150	20	x	T07IR2004
T12ER20A920-20112	IR20-ER20-112-IN	IR20	ER20-IN	112	34	34	23	167	167	20	x	T07IR2004
T12ER25A920-16100	IR25-ER16-100-IN	IR25	ER16-IN	100	42	28	19	151	83	19	108	T07ER2502
T12ER25A920-16112	IR25-ER16-112-IN	IR25	ER16-IN	112	42	28	19	163	95	19	120	T07ER2502
T12ER25A920-20100	IR25-ER20-100-IN	IR25	ER20-IN	100	42	35	23	131	73	20	107	T07ER2502
T12ER25A920-20112	IR25-ER20-112-IN	IR25	ER20-IN	112	42	35	23	153	85	20	119	T07ER2502
T12ER25A920-25060	IR25-ER25-060-IN	IR25	ER25-IN	60	42	42	28	122	122	22	x	T07IR2504
T12ER25A920-25100	IR25-ER25-100-IN	IR25	ER25-IN	100	42	42	28	162	162	22	x	T07IR2504
T12ER25A920-25112	IR25-ER25-112-IN	IR25	ER25-IN	112	42	42	28	174	174	22	x	T07IR2504
T12ER32A920-16100	IR32-ER16-100-IN	IR32	ER16-IN	100	50	28	19	155	73	19	111	T07ER3202
T12ER32A920-16112	IR32-ER16-112-IN	IR32	ER16-IN	112	50	28	19	167	85	19	123	T07ER3202
T12ER32A920-20100	IR32-ER20-100-IN	IR32	ER20-IN	100	50	35	23	158	88	20	110	T07ER3202
T12ER32A920-20112	IR32-ER20-112-IN	IR32	ER20-IN	112	50	35	23	170	100	20	122	T07ER3202
T12ER32A920-25100	IR32-ER25-100-IN	IR32	ER25-IN	100	50	42	28	160	101	22	103	T07ER3202
T12ER32A920-25112	IR32-ER25-112-IN	IR32	ER25-IN	112	50	42	28	172	113	22	115	T07ER3202
T12ER32A920-32060	IR32-ER32-060-IN	IR32	ER32-IN	60	50	50	34	125	125	25	x	T07IR3204
T12ER32A920-32100	IR32-ER32-100-IN	IR32	ER32-IN	100	50	50	34	165	165	25	x	T07IR3204
T12ER40A920-25100	IR40-ER25-100-IN	IR40	ER25-IN	100	63	42	28	170	98	22	107	T07ER4002
T12ER40A920-25112	IR40-ER25-112-IN	IR40	ER25-IN	112	63	42	28	182	110	22	119	T07ER4002
T12ER40A920-32100	IR40-ER32-100-IN	IR40	ER32-IN	100	63	50	34	170	75	25	104	T07ER4002
T12ER40A920-32112	IR40-ER32-112-IN	IR40	ER32-IN	112	63	50	34	182	87	25	116	T07ER4002
T12ER40A920-40060	IR40-ER40-060-IN	IR40	ER40-IN	60	63	63	42	130	130	24	x	T07IR4004
T12ER40A920-40100	IR40-ER40-100-IN	IR40	ER40-IN	100	63	63	42	170	170	24	x	T07IR4004
T12ER40A920-40112	IR40-ER40-112-IN	IR40	ER40-IN	112	63	63	42	182	182	24	x	T07IR4004

REVERSED ER COLLET CHUCK **INCH**

Order Number	Part Name	Base	Extension		D	D1	d	L	L1	L2	L3	W Wrench
			Size	Length								
T12ER16A920A16051	IR16-ER16-2.00"-IN	IR16	ER16-IN	2.00"	1.10"	1.10"	0.75"	4.15"	4.15"	0.77"	x	T07ER1601
T12ER16A920A16102	IR16-ER16-4.00"-IN	IR16	ER16-IN	4.00"	1.10"	1.10"	0.75"	6.15"	6.15"	0.77"	x	T07ER1601
T12ER20A920A20051	IR20-ER20-2.00"-IN	IR20	ER20-IN	2.00"	1.34"	1.34"	0.91"	3.98"	3.98"	0.79"	x	T07IR2004
T12ER20A920A20102	IR20-ER20-4.00"-IN	IR20	ER20-IN	4.00"	1.34"	1.34"	0.91"	5.98"	5.98"	0.79"	x	T07IR2004
T12ER25A920A25051	IR25-ER25-2.00"-IN	IR25	ER25-IN	2.00"	1.66"	1.66"	1.11"	4.45"	4.45"	0.87"	x	T07IR2504
T12ER25A920A25102	IR25-ER25-4.00"-IN	IR25	ER25-IN	4.00"	1.66"	1.66"	1.11"	6.45"	6.45"	0.87"	x	T07IR2504
T12ER32A920A32051	IR32-ER32-2.00"-IN	IR32	ER32-IN	2.00"	1.97"	1.97"	1.34"	4.57"	4.57"	1.01"	x	T07IR3204
T12ER32A920A32102	IR32-ER32-4.00"-IN	IR32	ER32-IN	4.00"	1.97"	1.97"	1.34"	6.58"	6.58"	1.01"	x	T07IR3204
T12ER40A920A40051	IR40-ER40-2.00"-IN	IR40	ER40-IN	2.00"	2.48"	2.48"	1.66"	4.77"	4.77"	0.98"	x	T07IR4004
T12ER40A920A40102	IR40-ER40-4.00"-IN	IR40	ER40-IN	4.00"	2.48"	2.48"	1.66"	6.78"	6.78"	0.98"	x	T07IR4004

Order Number Instruction

T12 ER16 A 920 - 16 060



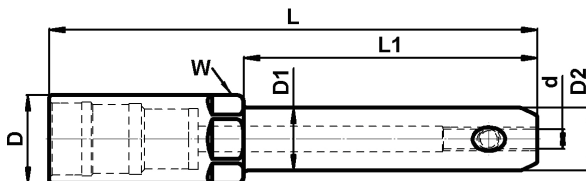
INFINITE TOOL HOLDERS

END MILL HOLDER COOLANT SLOT - 030 EXTENSION

COOLANT SLOT

Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.005mm(0.0002")
- Balance: G2.5, 25000rpm



END MILL HOLDER COOLANT SLOT METRIC

Order Number	Part Name	Base	Extension Size	Length	D	D1	D2	d	L	L1	W Wrench
T12ER16A030-06060	IR16-EM06-060J	IR16	EM06	60	28	25	25	6	114	52	T07ER1601
T12ER16A030-06100	IR16-EM06-100J	IR16	EM06	100	28	25	25	6	154	92	T07ER1601
T12ER16A030-08060	IR16-EM08-060J	IR16	EM08	60	28	28	28	8	114	x	T07ER1601
T12ER16A030-08100	IR16-EM08-100J	IR16	EM08	100	28	28	28	8	154	x	T07ER1601
T12ER20A030-10060	IR20-EM10-060J	IR20	EM10	60	34	35	35	10	115	65	T07IR2004
T12ER20A030-10100	IR20-EM10-100J	IR20	EM10	100	34	35	35	10	155	105	T07IR2004
T12ER25A030-12060	IR25-EM12-060J	IR25	EM12	60	42	42	42	12	122	x	T07IR2504
T12ER25A030-12100	IR25-EM12-100J	IR25	EM12	100	42	42	42	12	162	x	T07IR2504
T12ER25A030-16060	IR25-EM16-060J	IR25	EM16	60	42	48	48	16	122	62	T07IR2504
T12ER25A030-16100	IR25-EM16-100J	IR25	EM16	100	42	48	48	16	162	102	T07IR2504
T12ER32A030-16060	IR32-EM16-060J	IR32	EM16	60	50	48	48	16	126	65	T07IR3204
T12ER32A030-16100	IR32-EM16-100J	IR32	EM16	100	50	48	48	16	166	105	T07IR3204
T12ER32A030-20060	IR32-EM20-060J	IR32	EM20	60	50	52	52	20	126	65	T07IR3204
T12ER32A030-20100	IR32-EM20-100J	IR32	EM20	100	50	52	52	20	166	105	T07IR3204
T12ER40A030-20100	IR40-EM20-100J	IR40	EM20	100	63	52	52	20	170	109	T07IR4004
T12ER40A030-25060	IR40-EM25-060J	IR40	EM25	60	63	63	63	25	130	x	T07IR4004
T12ER40A030-25100	IR40-EM25-100J	IR40	EM25	100	63	63	63	25	170	x	T07IR4004
T12ER41A030-32060	IR41-EM32-060J	IR41	EM32	60	70	72	72	32	130	69	T07IR4104
T12ER41A030-32100	IR41-EM32-100J	IR41	EM32	100	70	72	72	32	170	109	T07IR4104

END MILL HOLDER COOLANT SLOT INCH

Order Number	Part Name	Base	Extension Size	Length	D	D1	D2	d	L	L1	W Wrench
T12ER11A030A03051	IR11-EM1/8"-2.00"J	IR11	EM1/8"	2.00"	0.75"	0.69"	0.69"	1/8"	3.38"	1.80"	T07ER1101
T12ER11A030A03102	IR11-EM1/8"-4.00"J	IR11	EM1/8"	4.00"	0.75"	0.69"	0.69"	1/8"	5.38"	3.80"	T07ER1101
T12ER11A030A05051	IR11-EM3/16"-2.00"J	IR11	EM3/16"	2.00"	0.75"	0.79"	0.79"	3/16"	3.38"	1.96"	T07ER1101
T12ER11A030A05102	IR11-EM3/16"-4.00"J	IR11	EM3/16"	4.00"	0.75"	0.79"	0.79"	3/16"	5.38"	3.96"	T07ER1101
T12ER11A030A06051	IR11-EM1/4"-2.00"J	IR11	EM1/4"	2.00"	0.75"	0.79"	0.79"	1/4"	3.38"	1.96"	T07ER1101
T12ER11A030A06102	IR11-EM1/4"-4.00"J	IR11	EM1/4"	4.00"	0.75"	0.79"	0.79"	1/4"	5.38"	3.96"	T07ER1101
T12ER16A030A06051	IR16-EM1/4"-2.00"J	IR16	EM1/4"	2.00"	1.10"	0.79"	0.79"	1/4"	4.13"	1.68"	T07ER1601
T12ER16A030A06102	IR16-EM1/4"-4.00"J	IR16	EM1/4"	4.00"	1.10"	0.79"	0.79"	1/4"	6.13"	3.68"	T07ER1601
T12ER16A030A08051	IR16-EM5/16"-2.00"J	IR16	EM5/16"	2.00"	1.10"	1.00"	1.00"	5/16"	4.13"	1.68"	T07ER1601
T12ER16A030A08102	IR16-EM5/16"-4.00"J	IR16	EM5/16"	4.00"	1.10"	1.00"	1.00"	5/16"	6.13"	3.68"	T07ER1601
T12ER16A030A09051	IR16-EM3/8"-2.00"J	IR16	EM3/8"	2.00"	1.10"	1.00"	1.00"	3/8"	4.13"	1.68"	T07ER1601
T12ER16A030A09102	IR16-EM3/8"-4.00"J	IR16	EM3/8"	4.00"	1.10"	1.00"	1.00"	3/8"	6.13"	3.68"	T07ER1601
T12ER20A030A12051	IR20-EM1/2"-2.00"J	IR20	EM1/2"	2.00"	1.34"	1.38"	1.38"	1/2"	4.17"	2.20"	T07IR2004
T12ER20A030A12102	IR20-EM1/2"-4.00"J	IR20	EM1/2"	4.00"	1.34"	1.38"	1.38"	1/2"	6.17"	4.20"	T07IR2004
T12ER25A030A16051	IR25-EM5/8"-2.00"J	IR25	EM5/8"	2.00"	1.65"	1.65"	1.65"	5/8"	4.44"	x	T07IR2504
T12ER25A030A16102	IR25-EM5/8"-4.00"J	IR25	EM5/8"	4.00"	1.65"	1.65"	1.65"	5/8"	6.44"	x	T07IR2504
T12ER25A030A19051	IR25-EM3/4"-2.00"J	IR25	EM3/4"	2.00"	1.65"	1.89"	1.89"	3/4"	4.44"	2.08"	T07IR2504
T12ER25A030A19102	IR25-EM3/4"-4.00"J	IR25	EM3/4"	4.00"	1.65"	1.89"	1.89"	3/4"	6.44"	4.08"	T07IR2504
T12ER32A030A22051	IR32-EM7/8"-2.00"J	IR32	EM7/8"	2.00"	1.97"	2.00"	2.00"	7/8"	4.58"	X	T07IR3204
T12ER32A030A22102	IR32-EM7/8"-4.00"J	IR32	EM7/8"	4.00"	1.97"	2.00"	2.00"	7/8"	6.58"	X	T07IR3204
T12ER40A030A25051	IR40-EM1"-2.00"J	IR40	EM1"	2.00"	2.48"	2.48"	2.48"	1"	4.74"	X	T07IR4004
T12ER40A030A25102	IR40-EM1"-4.00"J	IR40	EM1"	4.00"	2.48"	2.48"	2.48"	1"	6.74"	X	T07IR4004
T12ER40A030A32051	IR40-EM1 1/4"-2.00"J	IR40	EM1 1/4"	2.00"	2.48"	2.48"	2.48"	1 1/4"	4.74"	X	T07IR4004
T12ER40A030A32102	IR40-EM1 1/4"-4.00"J	IR40	EM1 1/4"	4.00"	2.48"	2.48"	2.48"	1 1/4"	6.74"	X	T07IR4004

Order Number Instruction

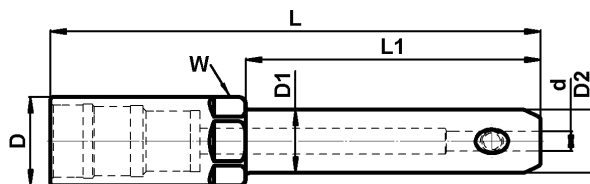
T12 **ER16** **A** **030** **-** **06** **060**

Extension code
 Extension base
 End Mill holder w/Coolant slot
 Cutter shank size
 Extension Length

END MILL HOLDER - 040 EXTENSION

Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.005mm(0.0002")
- Balance: G2.5, 2500rpm



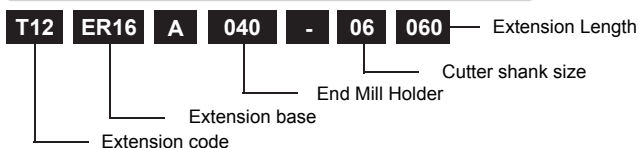
END MILL HOLDER METRIC

Order Number	Part Name	Base	Extension Size	Length	D	D1	D2	d	L	L1	W Wrench
T12ER16A040-06060	IR16-EM06-060	IR16	EM06	60	28	25	25	6	114	52	T07ER1601
T12ER16A040-06100	IR16-EM06-100	IR16	EM06	100	28	25	25	6	154	92	T07ER1601
T12ER16A040-08060	IR16-EM08-060	IR16	EM08	60	28	28	28	8	114	x	T07ER1601
T12ER16A040-08100	IR16-EM08-100	IR16	EM08	100	28	28	28	8	154	x	T07ER1601
T12ER20A040-08112	IR20-EM08-112	IR20	EM08	112	34	28	28	8	167	x	T07IR2004
T12ER20A040-10060	IR20-EM10-060	IR20	EM10	60	34	35	35	10	115	65	T07IR2004
T12ER20A040-10100	IR20-EM10-100	IR20	EM10	100	34	35	35	10	155	105	T07IR2004
T12ER25A040-12060	IR25-EM12-060	IR25	EM12	60	42	42	42	12	122	x	T07IR2504
T12ER25A040-12100	IR25-EM12-100	IR25	EM12	100	42	42	42	12	162	x	T07IR2504
T12ER25A040-14060	IR25-EM14-060	IR25	EM14	60	42	44	44	14	122	62	T07IR2504
T12ER25A040-14100	IR25-EM14-100	IR25	EM14	100	42	44	44	14	162	102	T07IR2504
T12ER25A040-16060	IR25-EM16-060	IR25	EM16	60	42	48	48	16	122	62	T07IR2504
T12ER25A040-16100	IR25-EM16-100	IR25	EM16	100	42	48	48	16	162	102	T07IR2504
T12ER32A040-16060	IR32-EM16-060	IR32	EM16	60	50	48	48	16	126	65	T07IR3204
T12ER32A040-16100	IR32-EM16-100	IR32	EM16	100	50	48	48	16	166	105	T07IR3204
T12ER32A040-18060	IR32-EM18-060	IR32	EM18	60	50	50	50	18	126	x	T07IR3204
T12ER32A040-18100	IR32-EM18-100	IR32	EM18	100	50	50	50	18	166	x	T07IR3204
T12ER32A040-20060	IR32-EM20-060	IR32	EM20	60	50	52	52	20	126	65	T07IR3204
T12ER32A040-20100	IR32-EM20-100	IR32	EM20	100	50	52	52	20	166	105	T07IR3204
T12ER40A040-20112	IR40-EM20-112	IR40	EM20	112	63	52	52	20	182	121	T07IR4004
T12ER40A040-25060	IR40-EM25-060	IR40	EM25	60	63	63	63	25	129.5	x	T07IR4004
T12ER40A040-25100	IR40-EM25-100	IR40	EM25	100	63	63	63	25	169.5	x	T07IR4004
T12ER40A040-25112	IR40-EM25-112	IR40	EM25	112	63	63	63	25	181.5	x	T07IR4004
T12ER41A040-32060	IR41-EM32-060	IR41	EM32	60	70	72	72	32	129.5	69	T07IR4004
T12ER41A040-32100	IR41-EM32-100	IR41	EM32	100	70	72	72	32	169.5	109	T07IR4004
T12ER41A040-40100	IR41-EM40-100	IR41	EM40	100	70	80	80	40	169.5	109	T07IR4004
T12ER41A040-42100	IR41-EM42-100	IR41	EM40	100	70	80	80	42	169.5	109	T07IR4004
T12ER42A040-50100	IR42-EM50-100	IR42	EM50	100	85	92	92	50	169.5	109	T07IR4004

END MILL HOLDER INCH

Order Number	Part Name	Base	Extension Size	Length	D	D1	D2	d	L	L1	W Wrench
T12ER11A040A03051	IR11-EM1/8"-2.00"	IR11	EM1/8"	2.00"	0.75"	0.69"	0.69"	1/8"	3.38"	1.80"	T07ER1101
T12ER11A040A03102	IR11-EM1/8"-4.00"	IR11	EM1/8"	4.00"	0.75"	0.69"	0.69"	1/8"	5.38"	3.80"	T07ER1101
T12ER11A040A05051	IR11-EM3/16"-2.00"	IR11	EM3/16"	2.00"	0.75"	0.79"	0.79"	3/16"	3.38"	1.96"	T07ER1101
T12ER11A040A05102	IR11-EM3/16"-4.00"	IR11	EM3/16"	4.00"	0.75"	0.79"	0.79"	3/16"	5.38"	3.96"	T07ER1101
T12ER11A040A06051	IR11-EM1/4"-2.00"	IR11	EM1/4"	2.00"	0.75"	0.79"	0.79"	1/4"	3.38"	1.96"	T07ER1101
T12ER11A040A06102	IR11-EM1/4"-4.00"	IR11	EM1/4"	4.00"	0.75"	0.79"	0.79"	1/4"	5.38"	3.96"	T07ER1101
T12ER16A040A06051	IR16-EM1/4"-2.00"	IR16	EM1/4"	2.00"	1.10"	0.79"	0.79"	1/4"	4.13"	1.68"	T07ER1601
T12ER16A040A06102	IR16-EM1/4"-4.00"	IR16	EM1/4"	4.00"	1.10"	0.79"	0.79"	1/4"	6.13"	3.68"	T07ER1601
T12ER16A040A08051	IR16-EM5/16"-2.00"	IR16	EM5/16"	2.00"	1.10"	1.00"	1.00"	5/16"	4.13"	1.68"	T07ER1601
T12ER16A040A08102	IR16-EM5/16"-4.00"	IR16	EM5/16"	4.00"	1.10"	1.00"	1.00"	5/16"	6.13"	3.68"	T07ER1601
T12ER16A040A09051	IR16-EM3/8"-2.00"	IR16	EM3/8"	2.00"	1.10"	1.00"	1.00"	3/8"	4.13"	1.68"	T07ER1601
T12ER16A040A09102	IR16-EM3/8"-4.00"	IR16	EM3/8"	4.00"	1.10"	1.00"	1.00"	3/8"	6.13"	3.68"	T07ER1601
T12ER20A040A12051	IR20-EM1/2"-2.00"	IR20	EM1/2"	2.00"	1.34"	1.34"	1.34"	1/2"	4.17"	2.20"	T07IR2004
T12ER20A040A12102	IR20-EM1/2"-4.00"	IR20	EM1/2"	4.00"	1.34"	1.34"	1.34"	1/2"	6.17"	4.20"	T07IR2004
T12ER25A040A16051	IR25-EM5/8"-2.00"	IR25	EM5/8"	2.00"	1.65"	1.65"	1.65"	5/8"	4.44"	x	T07IR2504
T12ER25A040A16102	IR25-EM5/8"-4.00"	IR25	EM5/8"	4.00"	1.65"	1.65"	1.65"	5/8"	6.44"	x	T07IR2504
T12ER25A040A19051	IR25-EM3/4"-2.00"	IR25	EM3/4"	2.00"	1.65"	1.94"	1.94"	3/4"	4.44"	2.08"	T07IR2504
T12ER25A040A19102	IR25-EM3/4"-4.00"	IR25	EM3/4"	4.00"	1.65"	1.94"	1.94"	3/4"	6.44"	4.08"	T07IR2504
T12ER32A040A22051	IR32-EM7/8"-2.00"	IR32	EM7/8"	2.00"	1.97"	2.00"	2.48"	7/8"	4.58"	x	T07IR3204
T12ER32A040A22102	IR32-EM7/8"-4.00"	IR32	EM7/8"	4.00"	1.97"	2.00"	2.48"	7/8"	6.58"	x	T07IR3204
T12ER40A040A25051	IR40-EM1"-2.00"	IR40	EM1"	2.00"	2.48"	2.36"	2.36"	1"	4.74"	x	T07IR4004
T12ER40A040A25102	IR40-EM1"-4.00"	IR40	EM1"	4.00"	2.48"	2.36"	2.36"	1"	6.74"	x	T07IR4004
T12ER40A040A32051	IR40-EM1 1/4"-2.00"	IR40	EM1 1/4"	2.00"	2.48"	2.48"	2.48"	1 1/4"	4.74"	x	T07IR4004
T12ER40A040A32102	IR40-EM1 1/4"-4.00"	IR40	EM1 1/4"	4.00"	2.48"	2.48"	2.48"	1 1/4"	6.74"	x	T07IR4004
T12ER41A040A38102	IR41-EM1 1/2"-4.00"	IR41	EM1 1/2"	4.00"	2.75"	2.75"	2.75"	1 1/2"	6.74"	4.40"	T07IR4104
T12ER41A040A50102	IR41-EM2"-4.00"	IR41	EM2"	4.00"	2.75"	3.75"	3.75"	2"	6.74"	4.40"	T07IR4104

Order Number Instruction

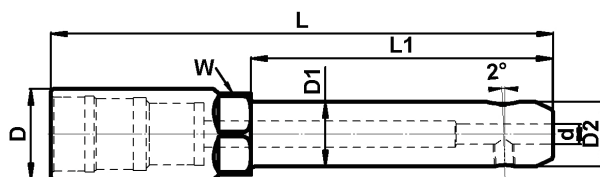


END MILL HOLDER WHISTLE - 050 EXTENSION

WHISTLE

Quality

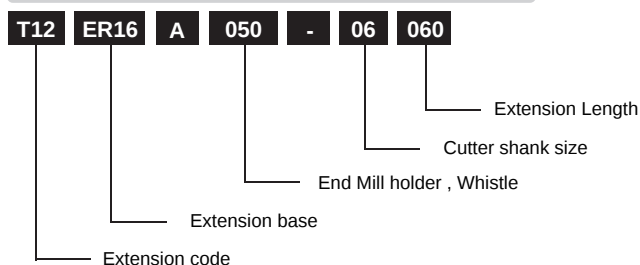
- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.005mm(0.0002")
- Balance: G2.5, 25000rpm



END MILL HOLDER WHISTLE METRIC

Order Number	Part Name	Base	Extension Size	Length	D	D1	D2	d	L	L1	W Wrench
T12ER16A050-06060	IR16-EM06-060W	IR16	EM06	60	28	25	25	6	114	52	T07ER1601
T12ER16A050-06100	IR16-EM06-100W	IR16	EM06	100	28	25	25	6	154	92	T07ER1601
T12ER16A050-08060	IR16-EM08-060W	IR16	EM08	60	28	28	28	8	114	x	T07ER1601
T12ER16A050-08100	IR16-EM08-100W	IR16	EM08	100	28	28	28	8	154	x	T07ER1601
T12ER20A050-10060	IR20-EM10-060W	IR20	EM10	60	34	35	35	10	115	65	T07IR2004
T12ER20A050-10100	IR20-EM10-100W	IR20	EM10	100	34	35	35	10	155	105	T07IR2004
T12ER25A050-12060	IR25-EM12-060W	IR25	EM12	60	42	42	42	12	122	x	T07IR2504
T12ER25A050-12100	IR25-EM12-100W	IR25	EM12	100	42	42	42	12	162	x	T07IR2504
T12ER25A050-14060	IR25-EM14-060W	IR25	EM14	60	42	44	44	14	122	62	T07IR2504
T12ER25A050-14100	IR25-EM14-100W	IR25	EM14	100	42	44	44	14	162	102	T07IR2504
T12ER25A050-16060	IR25-EM16-060W	IR25	EM16	60	42	48	48	16	122	62	T07IR2504
T12ER25A050-16100	IR25-EM16-100W	IR25	EM16	100	42	48	48	16	162	102	T07IR2504
T12ER32A050-16060	IR32-EM16-060W	IR32	EM16	60	50	48	48	16	126	65	T07IR3204
T12ER32A050-16100	IR32-EM16-100W	IR32	EM16	100	50	48	48	16	166	105	T07IR3204
T12ER32A050-18060	IR32-EM18-060W	IR32	EM18	60	50	50	50	18	126	x	T07IR3204
T12ER32A050-18100	IR32-EM18-100W	IR32	EM18	100	50	50	50	18	166	x	T07IR3204
T12ER32A050-20060	IR32-EM20-060W	IR32	EM20	60	50	52	52	20	126	65	T07IR3204
T12ER32A050-20100	IR32-EM20-100W	IR32	EM20	100	50	52	52	20	166	105	T07IR3204

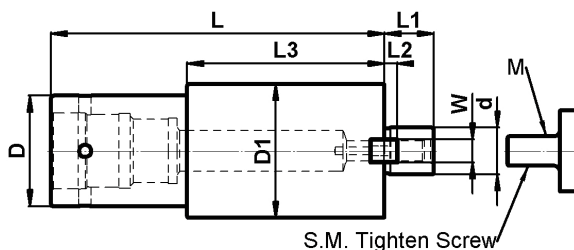
Order Number Instruction



SHELL MILLING HOLDER - 120 EXTENSION

Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.005mm (0.0002")
- Balance: G2.5, 2500rpm



SHELL MILLING HOLDER METRIC

Order Number	Part Name	Base	Extension		d	L	D	D1	L1	L2	W	M	L3
			Size	Length									
T12ER20A120-16060	IR20-SM16-060	IR20	SM16	60	16	115	34	38	17	5	8	M8	61
T12ER20A120-16100	IR20-SM16-100	IR20	SM16	100	16	155	34	38	17	5	8	M8	101
T12ER25A120-16060	IR25-SM16-060	IR25	SM16	60	16	122	42	38	17	5	8	M8	64
T12ER25A120-16100	IR25-SM16-100	IR25	SM16	100	16	162	42	38	17	5	8	M8	104
T12ER32A120-22060	IR32-SM22-060	IR32	SM22	60	22	89	50	50	19	5	10	M10	x
T12ER32A120-22096	IR32-SM22-096	IR32	SM22	96	22	125	50	50	19	5	10	M10	x
T12ER32A120-22100	IR32-SM22-100	IR32	SM22	100	22	129	50	50	19	5	10	M10	x
T12ER32A120-22060-01	IR32-SMB22-060	IR32	SM22	60	22	89	50	60	19	5	10	M10	26
T12ER32A120-22100-01	IR32-SMB22-100	IR32	SM22	100	22	129	50	60	19	5	10	M10	66
T12ER32A120-27060	IR32-SM27-060	IR32	SM27	60	27	89	50	60	21	6	12	M12	26
T12ER32A120-27100	IR32-SM27-100	IR32	SM27	100	27	129	50	60	21	6	12	M12	66
T12ER40A120-27060	IR40-SM27-060	IR40	SM27	60	27	130	63	60	21	6	12	M12	69.5
T12ER40A120-27100	IR40-SM27-100	IR40	SM27	100	27	170	63	60	21	6	12	M12	109.5
T12ER41A120-27060-01	IR41-SMB27-060	IR41	SM32	60	27	130	70	80	21	6	12	M12	69.5
T12ER41A120-27100-01	IR41-SMB27-100	IR41	SM32	100	27	170	70	80	21	6	12	M12	109.5
T12ER41A120-32060	IR41-SM32-060	IR41	SM32	60	32	130	70	78	24	7	14	M16	69.5
T12ER41A120-32100	IR41-SM32-100	IR41	SM32	100	32	170	70	78	24	7	14	M16	109.5
T12ER42A120-40060	IR42-SM40-060	IR42	SM40	60	40	130	85	89	27	8.5	16	M20	69.5
T12ER42A120-40100	IR42-SM40-100	IR42	SM40	100	40	170	85	89	27	8.5	16	M20	109.5
T12ER42A120-60060	IR42-SM60-060	IR42	SM60	60	60	130	85	129	40	12.5	25.4	M16*4	69.5
T12ER42A120-60100	IR42-SM60-100	IR42	SM60	100	60	170	85	129	40	12.5	25.4	M16*4	109.5

SHELL MILLING HOLDER INCH

Order Number	Part Name	Base	Extension		d	L	D	D1	L1	L2	W	M	L3
			Size	Length									
T12ER25A120A19063	IR25-SM3/4"-2.50"	IR25	SM 3/4"	2.50"	3/4"	4.67"	1.65"	1.65"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER25A120A19102	IR25-SM3/4"-4.00"	IR25	SM 3/4"	4.00"	3/4"	6.17"	1.65"	1.65"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER32A120A19063-01	IR32-SMB3/4"-2.50"	IR32	SM3/4"	2.50"	3/4"	3.64"	1.97"	1.97"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER32A120A19102-01	IR32-SMB3/4"-4.00"	IR32	SM3/4"	4.00"	3/4"	5.14"	1.97"	1.97"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER32A120A25063	IR32-SM1"-2.50"	IR32	SM1"	2.50"	1"	3.64"	1.97"	2.25"	0.68"	0.22"	1/2"	1/2"-20	2.60"
T12ER32A120A25102	IR32-SM1"-4.00"	IR32	SM1"	4.00"	1"	5.14"	1.97"	2.25"	0.68"	0.22"	1/2"	1/2"-20	4.60"
T12ER40A120A25063-01	IR40-SMB1"-2.50"	IR41	SM1"	2.50"	1"	5.24"	2.48"	2.48"	0.68"	0.22"	1/2"	1/2"-20	x
T12ER40A120A25102-01	IR40-SMB1"-4.00"	IR41	SM1"	4.00"	1"	6.74"	2.48"	2.48"	0.68"	0.22"	1/2"	1/2"-20	x
T12ER41A120A32063	IR41-SM1 1/4"-2.50"	IR41	SM11/4"	2.50"	1 1/4"	5.24"	2.75"	2.75"	0.68"	0.28"	1/2"	5/8"-18	x
T12ER41A120A32102	IR41-SM1 1/4"-4.00"	IR41	SM11/4"	4.00"	1 1/4"	6.74"	2.75"	2.75"	0.68"	0.28"	1/2"	5/8"-18	x
T12ER41A120A32063-01	IR41-SMB1 1/4"-2.50"	IR41	SM11/4"	2.50"	1 1/4"	5.24"	2.75"	2.90"	0.68"	0.28"	1/2"	5/8"-18	?
T12ER41A120A32102-01	IR41-SMB1 1/4"-4.00"	IR41	SM11/4"	4.00"	1 1/4"	6.74"	2.75"	2.90"	0.68"	0.28"	1/2"	5/8"-18	?
T12ER42A120A38063	IR42-SM1 1/2"-2.50"	IR42	SM11/2"	2.50"	1 1/2"	5.24"	3.35"	3.38"	0.94"	0.35"	5/8"	3/4"-16	2.88"
T12ER42A120A38102	IR42-SM1 1/2"-4.00"	IR42	SM11/2"	4.00"	1 1/2"	6.74"	3.35"	3.38"	0.94"	0.35"	5/8"	3/4"-16	4.88"
T12ER42A120A38063-01	IR42-SMB1 1/2"-2.50"	IR42	SM11/2"	2.50"	1 1/2"	5.24"	3.35"	3.90"	0.94"	0.35"	5/8"	3/4"-16	2.88"
T12ER42A120A38102-01	IR42-SMB1 1/2"-4.00"	IR42	SM11/2"	4.00"	1 1/2"	6.74"	3.35"	3.90"	0.94"	0.35"	5/8"	3/4"-16	4.88"
T12ER42A120A50063	IR42-SM2"-2.50"	IR42	SM2"	2.50"	2"	5.24"	3.35"	4.88"	0.94"	0.39"	3/4"	1"-14	2.88"
T12ER42A120A50102	IR42-SM2"-4.00"	IR42	SM2"	4.00"	2"	6.74"	3.35"	4.88"	0.94"	0.39"	3/4"	1"-14	4.88"
T12ER42A120A50063-01	IR42-SMB2"-2.50"	IR42	SM2"	2.50"	2"	5.24"	3.35"	5.50"	0.94"	0.39"	3/4"	1"-14	2.88"

ACCESSORIES:

DRIVING KEY METRIC

Order Number	Part Name	Pilot Size
T10SM16	SM16 Driving Key	SM16
T10SM22	SM22 Driving Key	SM22
T10SM27	SM27 Driving Key	SM27
T10SM32	SM32 Driving Key	SM32
T10SM40	SM40 Driving Key	SM40
T10SM60	SM60 Driving Key	SM60

DRIVING KEY INCH

Order Number	Part Name	Pilot Size
T10SM19	SM3/4" Driving Key	SM3/4"
T10SM25.4	SM1" Driving Key	SM1"
T10SM31	SM1 1/4" Driving Key	SM1 1/4"
T10SM38	SM1 1/2" Driving Key	SM1 1/2"
T10SM50	SM2" Driving Key	SM2"
T10SM63	SM2 1/2" Driving Key	SM2 1/2"

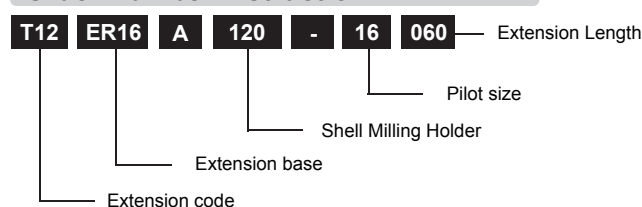
LOCK SCREWS METRIC

Order Number	Part Name	Pilot Size
T06SM16-BT	SM16 Lock Screw	SM16
T06SM22-BT	SM22 Lock Screw	SM22
T06SM27-BT	SM27 Lock Screw	SM27
T06SM32-BT	SM32 Lock Screw	SM32
T06SM40-BT	SM40 Lock Screw	SM40

LOCK SCREWS INCH

Order Number	Part Name	Pilot Size
T06SM19-CAT	SM3/4" Lock Screw	SM3/4"
T06SM25-CAT	SM1" Lock Screw	SM1"
T06SM32-CAT	SM1 1/4" Lock Screw	SM1 1/4"
T06SM38-CAT	SM1 1/2" Lock Screw	SM1 1/2"
T06SM50-CAT	SM2" Lock Screw	SM2"

Order Number Instruction

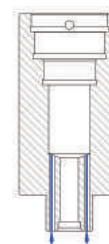
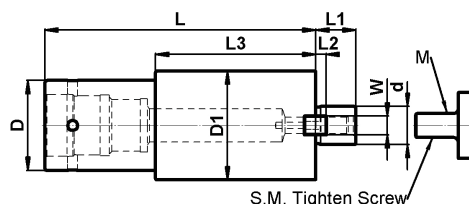


SHELL MILLING HOLDER COOLANT SLOT - 130

COOLANT SLOT

Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.005mm (0.0002")
- Balance: G2.5, 25000rpm



SHELL MILLING HOLDER COOLANT SLOT METRIC

Order Number	Part Name	Base	Extension		d	L	D	D1	L1	L2	W	M	L3
			Size	Length									
T12ER20A130-16060	IR20-SM16-060J	IR20	SM16	60	16	115	34	38	17	5	8	M8	61
T12ER20A130-16100	IR20-SM16-100J	IR20	SM16	100	16	155	34	38	17	5	8	M8	101
T12ER25A130-16060	IR25-SM16-060J	IR25	SM16	60	16	122	34	38	17	5	8	M8	64
T12ER25A130-16100	IR25-SM16-100J	IR25	SM16	100	16	162	42	38	17	5	8	M8	104
T12ER32A130-22060	IR32-SM22-060J	IR32	SM22	60	22	89	50	50	19	5	10	M10	x
T12ER32A130-22100	IR32-SM22-100J	IR32	SM22	100	22	129	50	50	19	5	10	M10	x
T12ER32A130-22060-01	IR32-SMB22-060J	IR32	SM22	60	22	89	50	60	19	5	10	M10	26
T12ER32A130-22100-01	IR32-SMB22-100J	IR32	SM22	100	22	129	50	60	19	5	10	M10	66
T12ER32A130-27060	IR32-SM27-060J	IR32	SM27	60	27	89	50	60	21	6	12	M12	26
T12ER32A130-27100	IR32-SM27-100J	IR32	SM27	100	27	129	50	60	21	6	12	M12	66
T12ER40A130-27060	IR40-SM27-060J	IR40	SM27	60	27	130	63	60	21	6	12	M12	69.5
T12ER40A130-27100	IR40-SM27-100J	IR40	SM27	100	27	170	63	60	21	6	12	M12	109.5
T12ER41A130-27060-01	IR41-SMB27-060J	IR41	SM32	60	27	130	70	80	21	6	12	M12	69.5
T12ER41A130-27100-01	IR41-SMB27-100J	IR41	SM32	100	27	170	70	80	21	6	12	M12	109.5
T12ER41A130-32060	IR41-SM32-060J	IR41	SM32	60	32	130	70	78	24	7	14	M16	69.5
T12ER41A130-32100	IR41-SM32-100J	IR41	SM32	100	32	170	70	78	24	7	14	M16	109.5
T12ER42A130-40060	IR42-SM40-060J	IR42	SM40	60	40	130	85	89	27	8.5	16	M20	69.5
T12ER42A130-40100	IR42-SM40-100J	IR42	SM40	100	40	170	85	89	27	8.5	16	M20	109.5
T12ER42A130-60060	IR42-SM60-060J	IR42	SM60	60	60	130	85	129	40	12.5	25.4	M16*4	69.5
T12ER42A130-60100	IR42-SM60-100J	IR42	SM60	100	60	170	85	129	40	12.5	25.4	M16*4	109.5

SHELL MILLING HOLDER COOLANT SLOT INCH

Order Number	Part Name	Base	Extension		d	L	D	D1	L1	L2	W	M	L3
			Size	Length									
T12ER25A130A19063	IR25-SM3/4"-2.50"J	IR25	SM 3/4"	2.50"	3/4"	4.67"	1.65"	1.65"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER25A130A19102	IR25-SM3/4"-4.00"J	IR25	SM 3/4"	4.00"	3/4"	6.17"	1.65"	1.65"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER32A130A19063-01	IR32-SMB3/4"-2.50"	IR32	SM3/4"	2.50"	3/4"	3.64"	1.97"	1.97"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER32A130A19102-01	IR32-SMB3/4"-4.00"	IR32	SM3/4"	4.00"	3/4"	5.14"	1.97"	1.97"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER32A130A25063	IR32-SM1"-2.50"J	IR32	SM1"	2.50"	1"	3.64"	1.97"	2.25"	0.68"	0.22"	1/2"	1/2"-20	2.60"
T12ER32A130A25102	IR32-SM1"-4.00"J	IR32	SM1"	4.00"	1"	5.14"	1.97"	2.25"	0.68"	0.22"	1/2"	1/2"-20	4.60"
T12ER40A130A25063-01	IR40-SMB1"-2.50"J	IR41	SM1"	2.50"	1"	5.24"	2.48"	2.48"	0.68"	0.22"	1/2"	1/2"-20	x
T12ER40A130A25102-01	IR40-SMB1"-4.00"J	IR41	SM1"	4.00"	1"	6.74"	2.48"	2.48"	0.68"	0.22"	1/2"	1/2"-20	x
T12ER41A130A32063	IR41-SM1 1/4"-2.50"J	IR41	SM11/4"	2.50"	1 1/4"	5.24"	2.75"	2.75"	0.68"	0.28"	1/2"	5/8"-18	x
T12ER41A130A32102	IR41-SM1 1/4"-4.00"J	IR41	SM11/4"	4.00"	1 1/4"	6.74"	2.75"	2.75"	0.68"	0.28"	1/2"	5/8"-18	x
T12ER41A130A32063-01	IR41-SMB1 1/4"-2.50"J	IR41	SM11/4"	2.50"	1 1/4"	5.24"	2.75"	2.90"	0.68"	0.28"	1/2"	5/8"-18	?
T12ER41A130A32102-01	IR41-SMB1 1/4"-4.00"J	IR41	SM11/4"	4.00"	1 1/4"	6.74"	2.75"	2.90"	0.68"	0.28"	1/2"	5/8"-18	?
T12ER42A130A38063	IR42-SM1 1/2"-2.50"J	IR42	SM11/2"	2.50"	1 1/2"	5.24"	3.35"	3.38"	0.94"	0.35"	5/8"	3/4"-16	2.88"
T12ER42A130A38102	IR42-SM1 1/2"-4.00"J	IR42	SM11/2"	4.00"	1 1/2"	6.74"	3.35"	3.38"	0.94"	0.35"	5/8"	3/4"-16	4.88"
T12ER42A130A38063-01	IR42-SMB1 1/2"-2.50"J	IR42	SM11/2"	2.50"	1 1/2"	5.24"	3.35"	3.90"	0.94"	0.35"	5/8"	3/4"-16	2.88"
T12ER42A130A38102-01	IR42-SMB1 1/2"-4.00"J	IR42	SM11/2"	4.00"	1 1/2"	6.74"	3.35"	3.90"	0.94"	0.35"	5/8"	3/4"-16	4.88"
T12ER42A130A50063	IR42-SM2"-2.50"J	IR42	SM2"	2.50"	2"	5.24"	3.35"	4.88"	0.94"	0.39"	3/4"	1"-14	2.88"
T12ER42A130A50102	IR42-SM2"-4.00"J	IR42	SM2"	4.00"	2"	6.74"	3.35"	4.88"	0.94"	0.39"	3/4"	1"-14	4.88"
T12ER42A130A50063-01	IR42-SMB2"-2.50"J	IR42	SM2"	2.50"	2"	5.24"	3.35"	5.50"	0.94"	0.39"	3/4"	1"-14	2.88"

ACCESSORIES:

DRIVING KEY METRIC

Order Number	Part Name	Pilot Size
T10SM16	SM16 Driving Key	SM16
T10SM22	SM22 Driving Key	SM22
T10SM27	SM27 Driving Key	SM27
T10SM32	SM32 Driving Key	SM32
T10SM40	SM40 Driving Key	SM40
T10SM60	SM60 Driving Key	SM60

DRIVING KEY INCH

Order Number	Part Name	Pilot Size
T10SM19	SM3/4" Driving Key	SM3/4"
T10SM25.4	SM1" Driving Key	SM1"
T10SM31	SM1 1/4" Driving Key	SM1 1/4"
T10SM38	SM1 1/2" Driving Key	SM1 1/2"
T10SM50	SM2" Driving Key	SM2"
T10SM63	SM2 1/2" Driving Key	SM2 1/2"

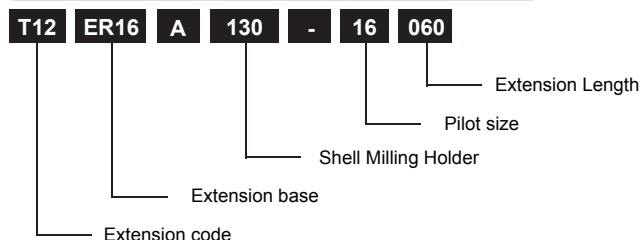
LOCK SCREWS METRIC

Order Number	Part Name	Pilot Size
T06SM16-BT	SM16 Lock Screw	SM16
T06SM22-BT	SM22 Lock Screw	SM22
T06SM27-BT	SM27 Lock Screw	SM27
T06SM32-BT	SM32 Lock Screw	SM32
T06SM40-BT	SM40 Lock Screw	SM40

LOCK SCREWS INCH

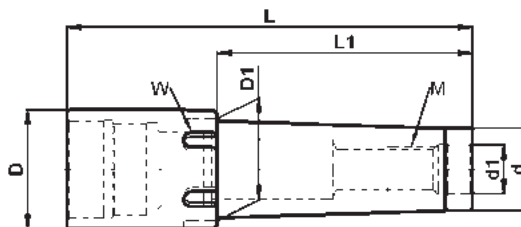
Order Number	Part Name	Pilot Size
T06SM19-CAT	SM3/4" Lock Screw	SM3/4"
T06SM25-CAT	SM1" Lock Screw	SM1"
T06SM32-CAT	SM1 1/4" Lock Screw	SM1 1/4"
T06SM38-CAT	SM1 1/2" Lock Screw	SM1 1/2"
T06SM50-CAT	SM2" Lock Screw	SM2"

Order Number Instruction



SCREW-IN HOLDER - 200 EXTENSION
Quality

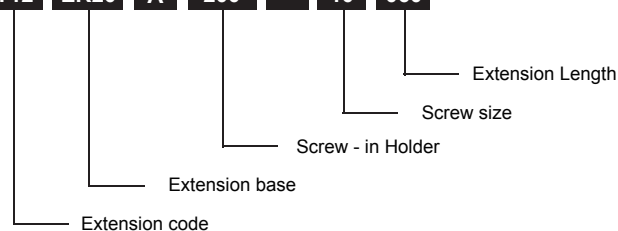
- Shaft tolerance: H3
- Hardness: HRC56±2
- Seat runout: 0.005mm (0.0002")
- Balance: G2.5, 25000rpm

**SCREW-IN HOLDER METRIC**

Order Number	Part Name	Base	Extension		D	D1	d	d1	L	L1	M	W Wrench
			Size	Length								
T12ER11A200-08060	IR11-M08-060	IR11	M08	60	19	19	13	8.5	95	55	M8	T07ER1101
T12ER11A200-08100	IR11-M08-100	IR11	M08	100	19	19	13	8.5	135	95	M8	T07ER1101
T12ER11A200-10060	IR11-M10-060	IR11	M10	60	19	19	18	10.5	95	55	M10	T07ER1101
T12ER11A200-10100	IR11-M10-100	IR11	M10	100	19	19	18	10.5	135	95	M10	T07ER1101
T12ER16A200-10060	IR16-M10-060	IR16	M10	60	28	25	18	10.5	114	58	M10	T07ER1601
T12ER16A200-10100	IR16-M10-100	IR16	M10	100	28	25	18	10.5	154	98	M10	T07ER1601
T12ER16A200-12060	IR16-M12-060	IR16	M12	60	28	25	21	12.5	114	58	M12	T07ER1601
T12ER16A200-12100	IR16-M12-100	IR16	M12	100	28	25	21	12.5	154	98	M12	T07ER1601
T12ER20A200-10060	IR20-M10-060	IR20	M10	60	34	25	18	10.5	115	62	M10	T07IR2004
T12ER20A200-10100	IR20-M10-100	IR20	M10	100	34	25	18	10.5	155	102	M10	T07IR2004
T12ER20A200-10112	IR20-M10-112	IR20	M10	112	34	25	18	10.5	167	110	M10	T07IR2004
T12ER20A200-12060	IR20-M12-060	IR20	M12	60	34	24	21	12.5	115	62	M12	T07IR2004
T12ER20A200-12100	IR20-M12-100	IR20	M12	100	34	24	21	12.5	155	102	M12	T07IR2004
T12ER20A200-16060	IR20-M16-060	IR20	M16	60	34	34	29	17.0	115	53	M16	T07IR2004
T12ER20A200-16100	IR20-M16-100	IR20	M16	100	34	34	29	17.0	155	102	M16	T07IR2004
T12ER25A200-12112	IR25-M12-112	IR25	M12	112	42	24	21	12.5	143	77	M12	T07ER2502
T12ER25A200-16112	IR25-M16-112	IR25	M16	112	42	34	29	17.0	143	90	M16	T07ER2502

SCREW-IN HOLDER INCH

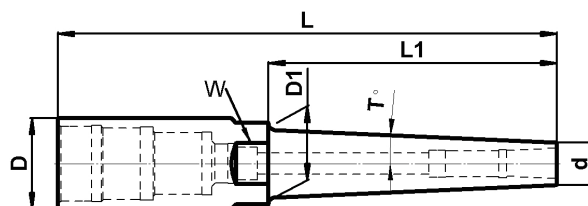
Order Number	Part Name	Base	Extension		D	D1	d	d1	L	L1	M	W Wrench
			Size	Length								
T12ER11A200A08060	IR11-M08-2.36"	IR11	M08	2.36"	0.75"	0.75"	0.52"	0.33"	3.74"	2.17"	M8	T07ER1101
T12ER11A200A08100	IR11-M08-3.94"	IR11	M08	3.94"	0.75"	0.75"	0.52"	0.33"	5.32"	3.74"	M8	T07ER1101
T12ER11A200A10060	IR11-M10-2.36"	IR11	M10	2.36"	0.75"	0.75"	0.71"	0.41"	3.74"	2.17"	M10	T07ER1101
T12ER11A200A10100	IR11-M10-3.94"	IR11	M10	3.94"	0.75"	0.75"	0.71"	0.41"	5.32"	3.74"	M10	T07ER1101
T12ER16A200A10060	IR16-M10-2.36"	IR16	M10	2.36"	1.10"	0.99"	0.71"	0.41"	4.65"	2.28"	M10	T07ER1601
T12ER16A200A10100	IR16-M10-3.94"	IR16	M10	3.94"	1.10"	0.99"	0.71"	0.41"	6.06"	3.86"	M10	T07ER1601
T12ER16A200A12060	IR16-M12-2.36"	IR16	M12	2.36"	1.10"	0.99"	0.83"	0.49"	4.65"	2.28"	M12	T07ER1601
T12ER16A200A12100	IR16-M12-3.94"	IR16	M12	3.94"	1.10"	0.99"	0.83"	0.49"	6.06"	3.86"	M12	T07ER1601
T12ER20A200A10060	IR20-M10-2.36"	IR20	M10	2.36"	1.34"	0.99"	0.71"	0.41"	4.53"	2.44"	M10	T07IR2004
T12ER20A200A10100	IR20-M10-3.94"	IR20	M10	3.94"	1.34"	0.99"	0.71"	0.41"	6.10"	4.02"	M10	T07IR2004
T12ER20A200A10112	IR20-M10-4.41"	IR20	M10	4.41"	1.34"	0.99"	0.71"	0.41"	6.58"	4.33"	M10	T07IR2004
T12ER20A200A12060	IR20-M12-2.36"	IR20	M12	2.36"	1.34"	0.95"	0.83"	0.49"	4.53"	2.44"	M12	T07IR2004
T12ER20A200A12100	IR20-M12-3.94"	IR20	M12	3.94"	1.34"	0.95"	0.83"	0.49"	6.10"	4.02"	M12	T07IR2004
T12ER20A200A16060	IR20-M16-2.36"	IR20	M16	2.36"	1.34"	1.34"	1.14"	0.67"	4.53"	2.44"	M16	T07IR2004
T12ER20A200A16100	IR20-M16-3.94"	IR20	M16	3.94"	1.34"	1.34"	1.14"	0.67"	6.10"	4.02"	M16	T07IR2004
T12ER25A200A12112	IR25-M12-4.41"	IR25	M12	4.41"	1.65"	0.95"	0.83"	0.49"	5.63"	3.03"	M12	T07ER2502
T12ER25A200A16112	IR25-M16-4.41"	IR25	M16	4.41"	1.65"	1.34"	1.14"	0.67"	5.65"	3.54"	M16	T07ER2502

Order Number Instruction
T12 ER20 A 200 - 10 060


SLIM COLLET CHUCK - 210 EXTENSION

Quality

- Shaft tolerance: H3
- Hardness: HRC56±2
- Seat runout: 0.003mm (0.00012")
- Balance: G2.5, 25000rpm



SLIM COLLET CHUCK METRIC

Order Number	Part Name	Base	Extension		D	D1	T	d	L	L1	Length	W Wrench
			Size	Length								
T12ER11A210-06100	IR11-HC06-100	IR11	HC06	100	19	19	2.5 °	13	135	68	3.94"	T07ER1101
T12ER16A210-06100	IR16-HC06-100	IR16	HC06	100	28	21	2.5 °	13	154	87	3.94"	T07ER1601
T12ER16A210-10100	IR16-HC10-100	IR16	HC10	100	28	28	3.0 °	21	154	73	3.94"	T07ER1601
T12ER20A210-16100	IR20-HC16-100	IR20	HC16	100	34	34	3.0 °	32	155	18	3.94"	T07IR2004

ACCESSORIES:

HC COLLETS METRIC

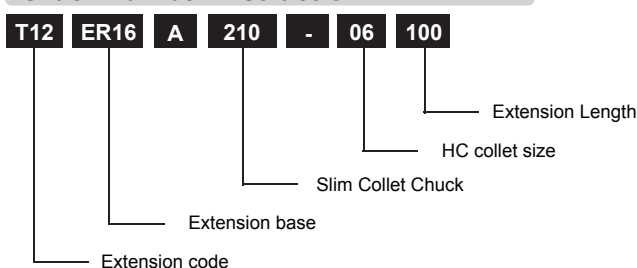
Order Number	Part Name	Collet	Shank
T03HC06-030	HC06 Collet 3mm	HC06	3
T03HC06-040	HC06 Collet 4mm	HC06	4
T03HC06-050	HC06 Collet 5mm	HC06	5
T03HC06-060	HC06 Collet 6mm	HC06	6
T03HC10-030	HC10 Collet 3mm	HC10	3
T03HC10-040	HC10 Collet 4mm	HC10	4
T03HC10-050	HC10 Collet 5mm	HC10	5
T03HC10-060	HC10 Collet 6mm	HC10	6
T03HC10-080	HC10 Collet 8mm	HC10	8
T03HC10-100	HC10 Collet 10mm	HC10	10
T03HC16-060	HC16 Collet 6mm	HC16	6
T03HC16-080	HC16 Collet 8mm	HC16	8
T03HC16-100	HC16 Collet 10mm	HC16	10
T03HC16-120	HC16 Collet 12mm	HC16	12
T03HC16-160	HC16 Collet 16mm	HC16	16



HC COLLETS INCH

Order Number	Part Name	Collet	Shank
T03HC06A030	HC06 Collet 1/8"	HC06	1/8"
T03HC06A050	HC06 Collet 3/16"	HC06	3/16"
T03HC06A060	HC06 Collet 1/4"	HC06	1/4"
T03HC10A030	HC10 Collet 1/8"	HC10	1/8"
T03HC10A040	HC10 Collet 3/16"	HC10	3/16"
T03HC10A060	HC10 Collet 1/4"	HC10	1/4"
T03HC10A080	HC10 Collet 5/16"	HC10	5/16"
T03HC10A100	HC10 Collet 3/8"	HC10	3/8"
T03HC16A060	HC16 Collet 1/4"	HC16	1/4"
T03HC16A080	HC16 Collet 5/16"	HC16	5/16"
T03HC16A100	HC16 Collet 3/8"	HC16	3/8"
T03HC16A120	HC16 Collet 1/2"	HC16	1/2"
T03HC16A160	HC16 Collet 5/8"	HC16	5/8"

Order Number Instruction

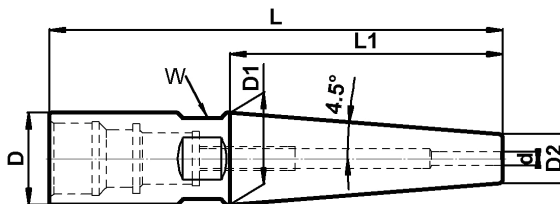


SHRINK-FIT HOLDER 4.5° - 220 EXTENSION

4.5°

Quality

- Shaft tolerance: H3
- Hardness: HRC52±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 25000rpm



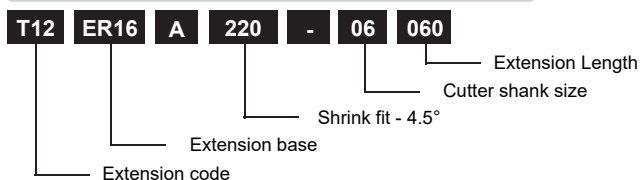
SHRINK - FIT HOLDER 4.5° METRIC

Order Number	Part Name	Base	Extension Size	Length	D	D1	D2	d mm	L	L1	HSS	W Wrench
T12ER8SA220-03060	IR8S-SF03-060-4.5°	IR8S	SF03	60	16	16	10	3	80	38	YES	T07IR8S01
T12ER8SA220-03100	IR8S-SF03-100-4.5°	IR8S	SF03	100	16	16	10	3	120	38	YES	T07IR8S01
T12ER11A220-03060	IR11-SF03-060-4.5°	IR11	SF03	60	19	19	10	3	95	57	YES	T07ER1101
T12ER11A220-03100	IR11-SF03-100-4.5°	IR11	SF03	100	19	19	10	3	135	57	YES	T07ER1101
T12ER11A220-04060	IR11-SF04-060-4.5°	IR11	SF04	60	19	19	12	4	95	44	YES	T07ER1101
T12ER11A220-04100	IR11-SF04-100-4.5°	IR11	SF04	100	19	19	12	4	135	44	YES	T07ER1101
T12ER11A220-05060	IR11-SF05-060-4.5°	IR11	SF05	60	19	19	12	5	95	44	YES	T07ER1101
T12ER11A220-05100	IR11-SF05-100-4.5°	IR11	SF05	100	19	19	12	5	135	44	YES	T07ER1101
T12ER16A220-06060	IR16-SF06-060-4.5°	IR16	SF06	60	28	28	21	6	114	44	YES	T07ER1601
T12ER16A220-06100	IR16-SF06-100-4.5°	IR16	SF06	100	28	28	21	6	154	44	YES	T07ER1601
T12ER16A220-08060	IR16-SF08-060-4.5°	IR16	SF08	60	28	28	21	8	114	44	YES	T07ER1601
T12ER16A220-08100	IR16-SF08-100-4.5°	IR16	SF08	100	28	28	21	8	154	44	YES	T07ER1601
T12ER16A220-10060	IR16-SF10-060-4.5°	IR16	SF10	60	28	28	24	10	114	25	YES	T07ER1601
T12ER16A220-10100	IR16-SF10-100-4.5°	IR16	SF10	100	28	28	24	10	154	25	YES	T07ER1601
T12ER16A220-12060	IR16-SF12-060-4.5°	IR16	SF12	60	28	28	24	12	114	25	YES	T07ER1601
T12ER16A220-12100	IR16-SF12-100-4.5°	IR16	SF12	100	28	28	24	12	154	25	YES	T07ER1601
T12ER20A220-14060	IR20-SF14-060-4.5°	IR20	SF14	60	34	34	27	14	115	44	YES	T07IR2004
T12ER20A220-14100	IR20-SF14-100-4.5°	IR20	SF14	100	34	34	27	14	155	44	YES	T07IR2004
T12ER20A220-16060	IR20-SF16-060-4.5°	IR20	SF16	60	34	34	27	16	115	44	YES	T07IR2004
T12ER20A220-16100	IR20-SF16-100-4.5°	IR20	SF16	100	34	34	27	16	155	44	YES	T07IR2004
T12ER25A220-18060	IR25-SF18-060-4.5°	IR25	SF18	60	42	42	33	18	122	57	YES	T07IR2504
T12ER25A220-18100	IR25-SF18-100-4.5°	IR25	SF18	100	42	42	33	18	162	57	YES	T07IR2504
T12ER25A220-20060	IR25-SF20-060-4.5°	IR25	SF20	60	42	42	33	20	122	57	YES	T07IR2504
T12ER25A220-20100	IR25-SF20-100-4.5°	IR25	SF20	100	42	42	33	20	162	57	YES	T07IR2504
T12ER32A220-25060	IR32-SF25-060-4.5°	IR32	SF25	60	50	50	44	25	126	38	YES	T07IR3204
T12ER32A220-25100	IR32-SF25-100-4.5°	IR32	SF25	100	50	50	44	25	166	38	YES	T07IR3204
T12ER32A220-32060	IR32-SF32-060-4.5°	IR32	SF32	60	50	50	44	32	126	38	YES	T07IR3204
T12ER32A220-32100	IR32-SF32-100-4.5°	IR32	SF32	100	50	50	44	32	166	38	YES	T07IR3204
T12ER40A220-12100	IR40-SF12-100-4.5°	IR40	SF12	100	63	40	24	12	170	103	YES	T07IR4004

SHRINK - FIT HOLDER 4.5° INCH

Order Number	Part Name	Base	Extension Size	Length	D	D1	D2	d inch	L	L1	HSS	W Wrench
T12ER8SA220A03051	IR8S-SF1/8"-2.00"-4.5°	IR8S	SF1/8"	2.00"	0.63"	0.63"	0.40"	1/8"	2.77"	1.50"	YES	T07IR8S01
T12ER8SA220A03102	IR8S-SF1/8"-4.00"-4.5°	IR8S	SF1/8"	4.00"	0.63"	0.63"	0.40"	1/8"	4.77"	1.50"	YES	T07IR8S01
T12ER11A220A03051	IR11-SF1/8"-2.00"-4.5°	IR11	SF1/8"	2.00"	0.75"	0.66"	0.40"	1/8"	3.38"	1.78"	YES	T07ER1101
T12ER11A220A03102	IR11-SF1/8"-4.00"-4.5°	IR11	SF1/8"	4.00"	0.75"	0.75"	0.40"	1/8"	5.38"	2.25"	YES	T07ER1101
T12ER11A220A05051	IR11-SF3/16"-2.00"-4.5°	IR11	SF3/16"	2.00"	0.75"	0.75"	0.47"	3/16"	3.38"	1.76"	YES	T07ER1101
T12ER11A220A05102	IR11-SF3/16"-4.00"-4.5°	IR11	SF3/16"	4.00"	0.75"	0.75"	0.47"	3/16"	5.38"	1.76"	YES	T07ER1101
T12ER16A220A06051	IR16-SF1/4"-2.00"-4.5°	IR16	SF1/4"	2.00"	1.10"	1.10"	0.83"	1/4"	4.13"	1.75"	YES	T07ER1601
T12ER16A220A06060	IR16-SF1/4"-2.36"-4.5°	IR16	SF1/4"	2.36"	1.10"	1.10"	0.83"	1/4"	4.49"	1.75"	YES	T07ER1601
T12ER16A220A06102	IR16-SF1/4"-4.00"-4.5°	IR16	SF1/4"	4.00"	1.10"	1.10"	0.83"	1/4"	6.13"	1.75"	YES	T07ER1601
T12ER16A220A08051	IR16-SF5/16"-2.00"-4.5°	IR16	SF5/16"	2.00"	1.10"	1.10"	0.83"	5/16"	4.13"	1.75"	YES	T07ER1601
T12ER16A220A08060	IR16-SF5/16"-2.36"-4.5°	IR16	SF5/16"	2.36"	1.10"	1.10"	0.83"	5/16"	4.49"	1.75"	YES	T07ER1601
T12ER16A220A08102	IR16-SF5/16"-4.00"-4.5°	IR16	SF5/16"	4.00"	1.10"	1.10"	0.83"	5/16"	6.13"	1.75"	YES	T07ER1601
T12ER16A220A09051	IR16-SF3/8"-2.00"-4.5°	IR16	SF3/8"	2.00"	1.10"	1.10"	0.95"	3/8"	4.13"	1.00"	YES	T07ER1601
T12ER16A220A09060	IR16-SF3/8"-2.36"-4.5°	IR16	SF3/8"	2.36"	1.10"	1.10"	0.95"	3/8"	4.49"	1.00"	YES	T07ER1601
T12ER16A220A09102	IR16-SF3/8"-4.00"-4.5°	IR16	SF3/8"	4.00"	1.10"	1.10"	0.95"	3/8"	6.13"	1.00"	YES	T07ER1601
T12ER16A220A12051	IR16-SF1/2"-2.00"-4.5°	IR16	SF1/2"	2.00"	1.10"	1.10"	0.95"	1/2"	4.13"	1.00"	YES	T07ER1601
T12ER16A220A12060	IR16-SF1/2"-2.36"-4.5°	IR16	SF1/2"	2.36"	1.10"	1.10"	0.95"	1/2"	4.49"	1.00"	YES	T07ER1601
T12ER16A220A12102	IR16-SF1/2"-4.00"-4.5°	IR16	SF1/2"	4.00"	1.10"	1.10"	0.95"	1/2"	6.13"	1.00"	YES	T07ER1601
T12ER20A220A16051	IR20-SF5/8"-2.00"-4.5°	IR20	SF5/8"	2.00"	1.34"	1.34"	1.06"	5/8"	4.17"	1.75"	YES	T07IR2004
T12ER20A220A16102	IR20-SF5/8"-4.00"-4.5°	IR20	SF5/8"	4.00"	1.34"	1.34"	1.06"	5/8"	6.17"	1.75"	YES	T07IR2004
T12ER25A220A19051	IR25-SF3/4"-2.00"-4.5°	IR25	SF3/4"	2.00"	1.65"	1.65"	1.30"	3/4"	4.44"	2.25"	YES	T07IR2504
T12ER25A220A19102	IR25-SF3/4"-4.00"-4.5°	IR25	SF3/4"	4.00"	1.65"	1.65"	1.30"	3/4"	6.44"	2.25"	YES	T07IR2504
T12ER32A220A25051	IR32-SF1"-2.00"-4.5°	IR32	SF1"	2.00"	1.97"	1.97"	1.73"	1"	4.60"	1.50"	YES	T07IR3204
T12ER32A220A25102	IR32-SF1"-4.00"-4.5°	IR32	SF1"	4.00"	1.97"	1.97"	1.73"	1"	6.60"	1.50"	YES	T07IR3204
T12ER32A220A32051	IR32-SF1 1/4"-2.00"-4.5°	IR32	SF1 1/4"	2.00"	1.97"	1.97"	1.73"	1 1/4"	4.60"	1.50"	YES	T07IR3204
T12ER32A220A32102	IR32-SF1 1/4"-4.00"-4.5°	IR32	SF1 1/4"	4.00"	1.97"	1.97"	1.73"	1 1/4"	6.60"	1.50"	YES	T07IR3204

Order Number Instruction

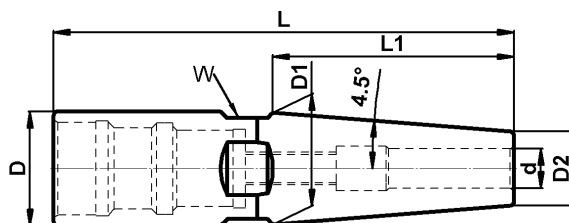


SHRINK-FIT HOLDER 4.5° SLIM - 230 EXTENSION

4.5°

Quality

- Shaft tolerance: H3
- Case Hardness: HRC52±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 2500rpm



SHRINK-FIT HOLDER 4.5° Slim METRIC

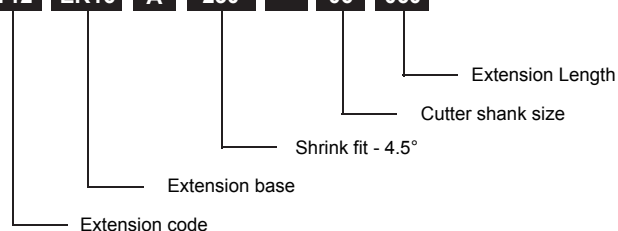
Order Number	Part Name	Base	Extension		D	D1	D2	d mm	L	L1	HSS	W Wrench
			Size	Length								
T12ER11A230-06060	IR11-SF06-060-4.5° slim	IR11	SF06	60	19	19	15	6	95	25	NO	T07ER1101
T12ER11A230-06100	IR11-SF06-100-4.5° slim	IR11	SF06	100	19	19	15	6	135	25	NO	T07ER1101
T12ER11A230-08060	IR11-SF08-060-4.5° slim	IR11	SF08	60	19	19	15	8	95	25	NO	T07ER1101
T12ER11A230-08100	IR11-SF08-100-4.5° slim	IR11	SF08	100	19	19	15	8	135	25	NO	T07ER1101
T12ER16A230-10060	IR16-SF10-060-4.5° slim	IR16	SF10	60	28	27	18	10	114	63	NO	T07ER1601
T12ER16A230-10100	IR16-SF10-100-4.5° slim	IR16	SF10	100	28	28	18	10	154	63	NO	T07ER1601
T12ER16A230-12060	IR16-SF12-060-4.5° slim	IR16	SF12	60	28	27	18	12	114	63	NO	T07ER1601
T12ER16A230-12100	IR16-SF12-100-4.5° slim	IR16	SF12	100	28	27	18	12	154	63	NO	T07ER1601
T12ER16A230-16060	IR16-SF16-060-4.5° slim	IR16	SF16	60	28	28	21	16	114	45	NO	T07ER1601
T12ER16A230-16100	IR16-SF16-100-4.5° slim	IR16	SF16	100	28	28	21	16	154	45	NO	T07ER1601
T12ER20A230-20060	IR20-SF20-060-4.5° slim	IR20	SF20	60	34	34	25	20	115	57	NO	T07IR2004
T12ER20A230-20100	IR20-SF20-100-4.5° slim	IR20	SF20	100	34	34	25	20	155	57	NO	T07IR2004

SHRINK-FIT HOLDER 4.5° Slim INCH

Order Number	Part Name	Base	Extension		D	D1	D2	d inch	L	L1	HSS	W Wrench
			Size	Length								
T12ER11A230A06051	IR11-SF1/4"-2.00"-4.5° slim	IR11	SF1/4"	2.00"	0.75"	0.75"	0.590"	1/4"	3.38"	1.00"	NO	T07ER1101
T12ER11A230A06102	IR11-SF1/4"-4.00"-4.5° slim	IR11	SF1/4"	4.00"	0.75"	0.75"	0.590"	1/4"	5.38"	1.00"	NO	T07ER1101
T12ER11A230A08051	IR11-SF5/16"-2.00"-4.5° slim	IR11	SF5/16"	2.00"	0.75"	0.75"	0.590"	5/16"	3.38"	1.00"	NO	T07ER1101
T12ER11A230A08102	IR11-SF5/16"-4.00"-4.5° slim	IR11	SF5/16"	4.00"	0.75"	0.75"	0.590"	5/16"	5.38"	1.00"	NO	T07ER1101
T12ER16A230A09060	IR16-SF3/8"-2.36"-4.5° slim	IR16	SF3/8"	2.36"	1.10"	1.10"	0.710"	3/8"	4.49"	2.50"	NO	T07ER1601
T12ER16A230A09102	IR16-SF3/8"-4.00"-4.5° slim	IR16	SF3/8"	4.00"	1.10"	1.10"	0.710"	3/8"	6.13"	2.50"	NO	T07ER1601
T12ER16A230A12060	IR16-SF1/2"-2.36"-4.5° slim	IR16	SF1/2"	2.36"	1.10"	1.10"	0.710"	1/2"	4.49"	2.50"	NO	T07ER1601
T12ER16A230A12102	IR16-SF1/2"-4.00"-4.5° slim	IR16	SF1/2"	4.00"	1.10"	1.10"	0.710"	1/2"	6.13"	2.50"	NO	T07ER1601
T12ER16A230A16060	IR16-SF5/8"-2.36"-4.5° slim	IR16	SF5/8"	2.36"	1.10"	1.10"	0.827"	5/8"	4.49"	1.75"	NO	T07ER1601
T12ER16A230A16102	IR16-SF5/8"-4.00"-4.5° slim	IR16	SF5/8"	4.00"	1.10"	1.10"	0.827"	5/8"	6.13"	1.75"	NO	T07ER1601
T12ER20A230A19051	IR20-SF3/4"-2.00"-4.5° slim	IR20	SF3/4"	2.00"	1.34"	1.34"	0.984"	3/4"	4.17"	2.24"	NO	T07IR2004
T12ER20A230A19102	IR20-SF3/4"-4.00"-4.5° slim	IR20	SF3/4"	4.00"	1.34"	1.34"	0.984"	3/4"	6.17"	2.24"	NO	T07IR2004

Order Number Instruction

T12 ER16 A 230 - 06 060

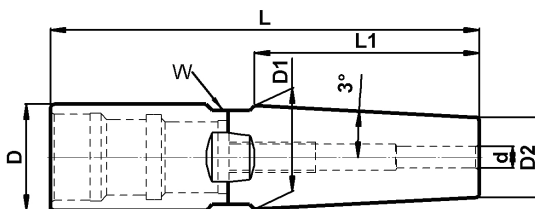


SHRINK-FIT HOLDER 3° - 240 EXTENSION

3°

Quality

- Shaft tolerance: H3
- Hardness: HRC52±2
- Seat runout: 0.003mm (0.00012")
- Balance: G2.5, 25000rpm



SHRINK - FIT HOLDER 3° METRIC

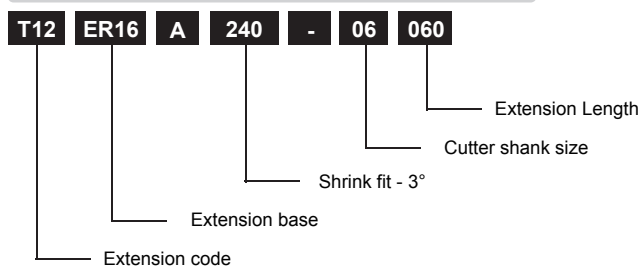
Order Number	Part Name	Base	Extension Size	Length	D	D1	D2	d mm	L	L1	HSS	W Wrench
T12ER8SA240-03060	IR8S-SF03-060-3°	IR8S	SF03	60	16	14	9	3	80	44	NO	T07IR8S01
T12ER8SA240-03100	IR8S-SF03-100-3°	IR8S	SF03	100	16	16	9	3	120	66	NO	T07IR8S01
T12ER8SA240-04060	IR8S-SF04-060-3°	IR8S	SF04	60	16	14	10	4	80	39	NO	T07IR8S01
T12ER8SA240-04100	IR8S-SF04-100-3°	IR8S	SF04	100	16	16	10	4	120	57	NO	T07IR8S01
T12ER8SA240-05060	IR8S-SF05-060-3°	IR8S	SF05	60	16	15	11	5	80	39	NO	T07IR8S01
T12ER8SA240-05100	IR8S-SF05-100-3°	IR8S	SF05	100	16	16	11	5	120	47	NO	T07IR8S01
T12ER8SA240-06060	IR8S-SF06-060-3°	IR8S	SF06	60	16	16	12	6	80	38	NO	T07IR8S01
T12ER8SA240-06100	IR8S-SF06-100-3°	IR8S	SF06	100	16	16	12	6	120	38	NO	T07IR8S01
T12ER11A240-03060	IR11-SF03-060-3°	IR11	SF03	60	19	15	9	3	95	58	NO	T07ER1101
T12ER11A240-03100	IR11-SF03-100-3°	IR11	SF03	100	19	19	9	3	135	95	NO	T07ER1101
T12ER11A240-04060	IR11-SF04-060-3°	IR11	SF04	60	19	16	10	4	95	53	NO	T07ER1101
T12ER11A240-04100	IR11-SF04-100-3°	IR11	SF04	100	19	19	10	4	135	85	NO	T07ER1101
T12ER11A240-05060	IR11-SF05-060-3°	IR11	SF05	60	19	16	11	5	95	54	NO	T07ER1101
T12ER11A240-05100	IR11-SF05-100-3°	IR11	SF05	100	19	19	11	5	135	76	NO	T07ER1101
T12ER11A240-06060	IR11-SF06-060-3°	IR11	SF06	60	19	18	12	6	95	54	NO	T07ER1101
T12ER11A240-06100	IR11-SF06-100-3°	IR11	SF06	100	19	19	12	6	135	66	NO	T07ER1101
T12ER11A240-08060	IR11-SF08-060-3°	IR11	SF08	60	19	19	14	8	95	47	NO	T07ER1101
T12ER11A240-08100	IR11-SF08-100-3°	IR11	SF08	100	19	19	14	8	135	47	NO	T07ER1101
T12ER11A240-10060	IR11-SF10-060-3°	IR11	SF10	60	19	19	16	10	95	28	NO	T07ER1101
T12ER11A240-10100	IR11-SF10-100-3°	IR11	SF10	100	19	19	16	10	135	28	NO	T07ER1101
T12ER11A240-12060	IR11-SF12-060-3°	IR11	SF12	60	21	21	18	12	95	28	NO	T07ER1101
T12ER11A240-12100	IR11-SF12-100-3°	IR11	SF12	100	21	21	18	12	135	28	NO	T07ER1101
T12ER16A240-12100	IR16-SF12-100-3°	IR16	SF12	100	28	28	18	12	154	95	NO	T07ER1601
T12ER16A240-16060	IR16-SF16-060-3°	IR16	SF16	60	28	28	22	16	114	57	NO	T07ER1601
T12ER16A240-16100	IR16-SF16-100-3°	IR16	SF16	100	28	28	22	16	154	57	NO	T07ER1601
T12ER20A240-16100	IR20-SF16-100-3°	IR20	SF16	100	34	33	22	16	155	105	NO	T07IR2004
T12ER20A240-20060	IR20-SF20-060-3°	IR20	SF20	60	34	34	27	20	115	66	NO	T07IR2004
T12ER20A240-20100	IR20-SF20-100-3°	IR20	SF20	100	34	34	27	20	155	66	NO	T07IR2004
T12ER25A240-25060	IR25-SF25-060-3°	IR25	SF25	60	42	41	34	25	122	64	NO	T07IR2504
T12ER25A240-25100	IR25-SF25-100-3°	IR25	SF25	100	42	42	34	25	162	76	NO	T07IR2504

SHRINK - FIT HOLDER 3° INCH

Order Number	Part Name	Base	Extension Size	Length	D	D1	D2	d inch	L	L1	HSS	W Wrench
T12ER8SA240A03051	IR8S-SF1/8"-2.00"-3°	IR8S	SF1/8"	2.00"	0.63"	0.47"	0.354"	1/8"	2.77"	1.17"	NO	T07IR8S01
T12ER8SA240A03102	IR8S-SF1/8"-4.00"-3°	IR8S	SF1/8"	4.00"	0.63"	0.63"	0.354"	1/8"	4.77"	2.63"	NO	T07IR8S01
T12ER8SA240A05051	IR8S-SF3/16"-2.00"-3°	IR8S	SF3/16"	2.00"	0.63"	0.60"	0.433"	3/16"	2.77"	1.57"	NO	T07IR8S01
T12ER8SA240A05102	IR8S-SF3/16"-4.00"-3°	IR8S	SF3/16"	4.00"	0.63"	0.63"	0.433"	3/16"	4.77"	1.87"	NO	T07IR8S01
T12ER8SA240A06051	IR8S-SF1/4"-2.00"-3°	IR8S	SF1/4"	2.00"	0.63"	0.63"	0.472"	1/4"	2.77"	1.50"	NO	T07IR8S01
T12ER8SA240A06102	IR8S-SF1/4"-4.00"-3°	IR8S	SF1/4"	4.00"	0.63"	0.63"	0.472"	1/4"	4.77"	1.50"	NO	T07IR8S01
T12ER11A240A03051	IR11-SF1/8"-2.00"-3°	IR11	SF1/8"	2.00"	0.75"	0.56"	0.354"	1/8"	3.38"	1.93"	NO	T07ER1101
T12ER11A240A03102	IR11-SF1/8"-4.00"-3°	IR11	SF1/8"	4.00"	0.75"	0.75"	0.354"	1/8"	5.38"	3.75"	NO	T07ER1101
T12ER11A240A05051	IR11-SF3/16"-2.00"-3°	IR11	SF3/16"	2.00"	0.75"	0.64"	0.433"	3/16"	3.38"	1.96"	NO	T07ER1101
T12ER11A240A05102	IR11-SF3/16"-4.00"-3°	IR11	SF3/16"	4.00"	0.75"	0.75"	0.433"	3/16"	5.38"	3.00"	NO	T07ER1101
T12ER11A240A06051	IR11-SF1/4"-2.00"-3°	IR11	SF1/4"	2.00"	0.75"	0.66"	0.472"	1/4"	3.38"	1.77"	NO	T07ER1101
T12ER11A240A06102	IR11-SF1/4"-4.00"-3°	IR11	SF1/4"	4.00"	0.75"	0.75"	0.472"	1/4"	5.38"	2.63"	NO	T07ER1101
T12ER11A240A08051	IR11-SF5/16"-2.00"-3°	IR11	SF5/16"	2.00"	0.75"	0.75"	0.551"	5/16"	3.38"	1.87"	NO	T07ER1101
T12ER11A240A08102	IR11-SF5/16"-4.00"-3°	IR11	SF5/16"	4.00"	0.75"	0.75"	0.551"	5/16"	5.38"	1.87"	NO	T07ER1101
T12ER11A240A09051	IR11-SF3/8"-2.00"-3°	IR11	SF3/8"	2.00"	0.75"	0.75"	0.630"	3/8"	3.38"	1.12"	NO	T07ER1101
T12ER11A240A09102	IR11-SF3/8"-4.00"-3°	IR11	SF3/8"	4.00"	0.75"	0.75"	0.630"	3/8"	5.38"	1.12"	NO	T07ER1101
T12ER11A240A12051	IR11-SF1/2"-2.00"-3°	IR11	SF1/2"	2.00"	0.83"	0.83"	0.709"	1/2"	3.38"	1.12"	NO	T07ER1101

Order Number	Part Name	Base	Extension		D	D1	D2	d inch	L	L1	HSS	W Wrench
			Size	Length								
T12ER11A240A12102	IR11-SF1/2"-4.00"-3°	IR11	SF1/2"	4.00"	0.83"	0.83"	0.709"	1/2"	5.38"	1.12"	NO	T07ER1101
T12ER16A240A12102	IR16-SF1/2"-4.00"-3°	IR16	SF1/2"	4.00"	1.10"	1.10"	0.709"	1/2"	6.13"	3.75"	NO	T07ER1601
T12ER16A240A16051	IR16-SF5/8"-2.00"-3°	IR16	SF5/8"	2.00"	1.10"	1.10"	0.870"	5/8"	4.13"	1.96"	NO	T07ER1601
T12ER16A240A16102	IR16-SF5/8"-4.00"-3°	IR16	SF5/8"	4.00"	1.10"	1.10"	0.870"	5/8"	6.13"	2.25"	NO	T07ER1601
T12ER20A240A16102	IR20-SF5/8"-4.00"-3°	IR20	SF5/8"	4.00"	1.34"	1.34"	0.870"	5/8"	6.13"	4.50"	NO	T07IR2004
T12ER20A240A19051	IR20-SF3/4"-2.00"-3°	IR20	SF3/4"	2.00"	1.34"	1.29"	1.060"	3/4"	4.16"	2.17"	NO	T07IR2004
T12ER20A240A19102	IR20-SF3/4"-4.00"-3°	IR20	SF3/4"	4.00"	1.34"	1.34"	1.060"	3/4"	6.16"	2.63"	NO	T07IR2004
T12ER25A240A25051	IR25-SF1"-2.00"-3°	IR25	SF1"	2.00"	1.65"	1.57"	1.340"	1"	4.44"	2.15"	NO	T07IR2504
T12ER25A240A25102	IR25-SF1"-4.00"-3°	IR25	SF1"	4.00"	1.65"	1.65"	1.340"	1"	6.44"	3.00"	NO	T07IR2504

Order Number Instruction

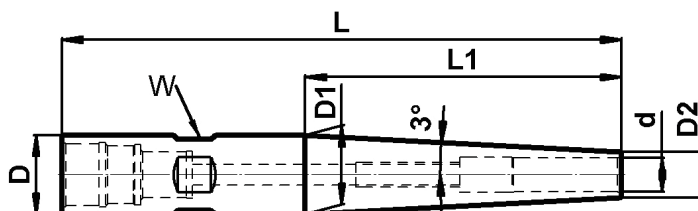


SHRINK-FIT HOLDER 3° SLIM - 250 EXTENSION

3° SLIM

Quality

- Shaft tolerance: H3
- Hardness: HRC52±2
- Seat runout: 0.003mm (0.00012")
- Balance: G2.5, 2500rpm

**SHRINK - FIT HOLDER 3° SLIM METRIC**

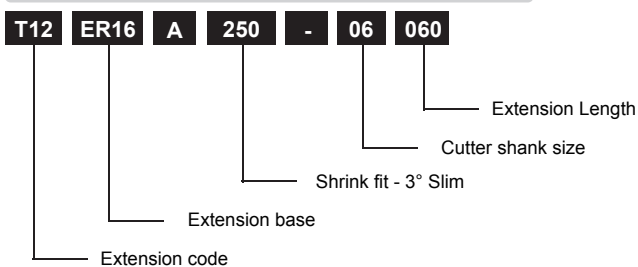
Order Number	Part Name	Base	Extension		D	D1	D2	d mm	L	L1	HSS	W Wrench
			Size	Length								
T12ER08A250-03060	IR08-SF03-060-3° slim	IR08	SF03	60	12	11	6	3	80	43	NO	T07IR0801
T12ER08A250-03100	IR08-SF03-100-3° slim	IR08	SF03	100	12	12	6	3	120	57	NO	T07IR0801
T12ER08A250-04060	IR08-SF04-060-3° slim	IR08	SF04	60	12	12	7	4	80	47	NO	T07IR0801
T12ER08A250-04100	IR08-SF04-100-3° slim	IR08	SF04	100	12	12	7	4	120	47	NO	T07IR0801
T12ER08A250-05060	IR08-SF05-060-3° slim	IR08	SF05	60	12	12	8	5	80	38	NO	T07IR0801
T12ER08A250-05100	IR08-SF05-100-3° slim	IR08	SF05	100	12	12	8	5	120	38	NO	T07IR0801
T12ER08A250-06060	IR08-SF06-060-3° slim	IR08	SF06	60	12	12	9	6	80	28	NO	T07IR0801
T12ER08A250-06100	IR08-SF06-100-3° slim	IR08	SF06	100	12	12	9	6	120	28	NO	T07IR0801
T12ER8SA250-03060	IR8S-SF03-060-3° slim	IR8S	SF03	60	16	11	6	3	80	42	NO	T07IR8S01
T12ER8SA250-03100	IR8S-SF03-100-3° slim	IR8S	SF03	100	16	14	6	3	120	78	NO	T07IR8S01
T12ER8SA250-04060	IR8S-SF04-060-3° slim	IR8S	SF04	60	16	11	7	4	80	37	NO	T07IR8S01
T12ER8SA250-04100	IR8S-SF04-100-3° slim	IR8S	SF04	100	16	16	7	4	120	85	NO	T07IR8S01
T12ER8SA250-05060	IR8S-SF05-060-3° slim	IR8S	SF05	60	16	12	8	5	80	38	NO	T07IR8S01
T12ER8SA250-05100	IR8S-SF05-100-3° slim	IR8S	SF05	100	16	16	8	5	120	76	NO	T07IR8S01
T12ER8SA250-06060	IR8S-SF06-060-3° slim	IR8S	SF06	60	16	15	9	6	80	43	NO	T07IR8S01
T12ER8SA250-06100	IR8S-SF06-100-3° slim	IR8S	SF06	100	16	16	9	6	120	66	NO	T07IR8S01
T12ER8SA250-08060	IR8S-SF08-060-3° slim	IR8S	SF08	60	16	16	11	8	80	47	NO	T07IR8S01
T12ER8SA250-08100	IR8S-SF08-100-3° slim	IR8S	SF08	100	16	16	11	8	120	47	NO	T07IR8S01
T12ER8SA250-10060	IR8S-SF10-060-3° slim	IR8S	SF10	60	16	16	13	10	80	28	NO	T07IR8S01
T12ER8SA250-10100	IR8S-SF10-100-3° slim	IR8S	SF10	100	16	16	13	10	120	28	NO	T07IR8S01
T12ER11A250-03060	IR11-SF03-060-3° slim	IR11	SF03	60	19	12	6	3	95	59	NO	T07ER1101
T12ER11A250-03100	IR11-SF03-100-3° slim	IR11	SF03	100	19	16	6	3	135	99	NO	T07ER1101
T12ER11A250-04060	IR11-SF04-060-3° slim	IR11	SF04	60	19	13	7	4	95	57	NO	T07ER1101
T12ER11A250-04100	IR11-SF04-100-3° slim	IR11	SF04	100	19	17	7	4	135	94	NO	T07ER1101
T12ER11A250-05060	IR11-SF05-060-3° slim	IR11	SF05	60	19	14	8	5	95	58	NO	T07ER1101
T12ER11A250-05100	IR11-SF05-100-3° slim	IR11	SF05	100	19	18	8	5	135	94	NO	T07ER1101
T12ER11A250-06060	IR11-SF06-060-3° slim	IR11	SF06	60	19	15	9	6	95	59	NO	T07ER1101
T12ER11A250-06100	IR11-SF06-100-3° slim	IR11	SF06	100	19	19	9	6	135	95	NO	T07ER1101
T12ER11A250-08060	IR11-SF08-060-3° slim	IR11	SF08	60	19	17	11	8	95	59	NO	T07ER1101
T12ER11A250-08100	IR11-SF08-100-3° slim	IR11	SF08	100	19	19	11	8	135	76	NO	T07ER1101
T12ER11A250-10060	IR11-SF10-060-3° slim	IR11	SF10	60	19	19	13	10	95	57	NO	T07ER1101
T12ER11A250-10100	IR11-SF10-100-3° slim	IR11	SF10	100	19	19	13	10	135	57	NO	T07ER1101
T12ER11A250-12060	IR11-SF12-060-3° slim	IR11	SF12	60	19	19	15	12	95	38	NO	T07ER1101
T12ER11A250-12100	IR11-SF12-100-3° slim	IR11	SF12	100	19	19	15	12	135	38	NO	T07ER1101

SHRINK - FIT HOLDER 3° SLIM INCH

Order Number	Part Name	Base	Extension		D	D1	D2	d inch	L	L1	HSS	W Wrench
			Size	Length								
T12ER08A250A03060	IR08-SF1/8"-2.36"-3° slim	IR08	SF1/8"	2.36"	0.47"	0.43"	0.243"	1/8"	3.13"	1.74"	NO	T07IR0801
T12ER08A250A03102	IR08-SF1/8"-4.00"-3° slim	IR08	SF1/8"	4.00"	0.47"	0.47"	0.243"	1/8"	4.77"	2.18"	NO	T07IR0801
T12ER08A250A05060	IR08-SF3/16"-2.36"-3° slim	IR08	SF3/16"	2.36"	0.47"	0.47"	0.315"	3/16"	3.13"	1.50"	NO	T07IR0801
T12ER08A250A05102	IR08-SF3/16"-4.00"-3° slim	IR08	SF3/16"	4.00"	0.47"	0.47"	0.315"	3/16"	4.77"	1.50"	NO	T07IR0801
T12ER08A250A06060	IR08-SF1/4"-2.36"-3° slim	IR08	SF1/4"	2.36"	0.47"	0.47"	0.368"	1/4"	3.13"	1.00"	NO	T07IR0801
T12ER08A250A06102	IR08-SF1/4"-4.00"-3° slim	IR08	SF1/4"	4.00"	0.47"	0.47"	0.368"	1/4"	4.77"	1.00"	NO	T07IR0801
T12ER8SA250A03060	IR8S-SF1/8"-2.36"-3° slim	IR8S	SF1/8"	2.36"	0.63"	0.42"	0.243"	1/8"	3.13"	1.67"	NO	T07IR8S01
T12ER8SA250A03102	IR8S-SF1/8"-4.00"-3° slim	IR8S	SF1/8"	4.00"	0.63"	0.63"	0.243"	1/8"	4.77"	3.68"	NO	T07IR8S01
T12ER8SA250A05060	IR8S-SF3/16"-2.36"-3° slim	IR8S	SF3/16"	2.36"	0.63"	0.47"	0.315"	3/16"	3.13"	1.46"	NO	T07IR8S01
T12ER8SA250A05102	IR8S-SF3/16"-4.00"-3° slim	IR8S	SF3/16"	4.00"	0.63"	0.63"	0.315"	3/16"	4.77"	3.00"	NO	T07IR8S01
T12ER8SA250A06060	IR8S-SF1/4"-2.36"-3° slim	IR8S	SF1/4"	2.36"	0.63"	0.53"	0.368"	1/4"	3.13"	1.51"	NO	T07IR8S01
T12ER8SA250A06102	IR8S-SF1/4"-4.00"-3° slim	IR8S	SF1/4"	4.00"	0.63"	0.63"	0.368"	1/4"	4.77"	2.49"	NO	T07IR8S01
T12ER8SA250A08060	IR8S-SF5/16"-2.36"-3° slim	IR8S	SF5/16"	2.36"	0.63"	0.63"	0.433"	5/16"	3.13"	1.87"	NO	T07IR8S01

Order Number	Part Name	Base	Extension		D	D1	D2	d inch	L	L1	HSS	W Wrench
			Size	Length								
T12ER8SA250A08102	IR8S-SF5/16"-4.00"-3° slim	IR8S	SF5/16"	4.00"	0.63"	0.63"	0.433"	5/16"	4.77"	1.87"	NO	T07IR8S01
T12ER8SA250A09102	IR8S-SF3/8"-4.00"-3° slim	IR8S	SF3/8"	4.00"	0.63"	0.63"	0.512"	3/8"	4.77"	1.12"	NO	T07IR8S01
T12ER11A250A03051	IR11-SF1/8"-2.00"-3° slim	IR11	SF1/8"	2.00"	0.75"	0.44"	0.240"	1/8"	3.38"	1.88"	NO	T07ER1101
T12ER11A250A03102	IR11-SF1/8"-4.00"-3° slim	IR11	SF1/8"	4.00"	0.75"	0.66"	0.240"	1/8"	5.38"	3.96"	NO	T07ER1101
T12ER11A250A05051	IR11-SF3/16"-2.00"-3° slim	IR11	SF3/16"	2.00"	0.75"	0.52"	0.315"	3/16"	3.38"	1.92"	NO	T07ER1101
T12ER11A250A05102	IR11-SF3/16"-4.00"-3° slim	IR11	SF3/16"	4.00"	0.75"	0.71"	0.315"	3/16"	5.38"	3.79"	NO	T07ER1101
T12ER11A250A06051	IR11-SF1/4"-2.00"-3° slim	IR11	SF1/4"	2.00"	0.75"	0.56"	0.368"	1/4"	3.38"	1.96"	NO	T07ER1101
T12ER11A250A06102	IR11-SF1/4"-4.00"-3° slim	IR11	SF1/4"	4.00"	0.75"	0.75"	0.368"	1/4"	5.38"	3.62"	NO	T07ER1101
T12ER11A250A08051	IR11-SF5/16"-2.00"-3° slim	IR11	SF5/16"	2.00"	0.75"	0.64"	0.433"	5/16"	3.38"	1.96"	NO	T07ER1101
T12ER11A250A08102	IR11-SF5/16"-4.00"-3° slim	IR11	SF5/16"	4.00"	0.75"	0.75"	0.433"	5/16"	5.38"	3.00"	NO	T07ER1101
T12ER11A250A09051	IR11-SF3/8"-2.00"-3° slim	IR11	SF3/8"	2.00"	0.75"	0.70"	0.512"	3/8"	3.38"	1.78"	NO	T07ER1101
T12ER11A250A09102	IR11-SF3/8"-4.00"-3° slim	IR11	SF3/8"	4.00"	0.75"	0.75"	0.512"	3/8"	5.38"	2.25"	NO	T07ER1101
T12ER11A250A12051	IR11-SF1/2"-2.00"-3° slim	IR11	SF1/2"	2.00"	0.75"	0.75"	0.620"	1/2"	3.38"	1.22"	NO	T07ER1101
T12ER11A250A12102	IR11-SF1/2"-4.00"-3° slim	IR11	SF1/2"	4.00"	0.75"	0.75"	0.620"	1/2"	5.38"	1.22"	NO	T07ER1101

Order Number Instruction



INDEX - IR BASE

I SYSTEM

SHANK	SIZE		
BT	30	40	50
CAT		40	50
SK		40	50

IPE SYSTEM

SHANK	SIZE		
PBBT	30	40	50
PBCAT		40	50
PBSK		40	50

SHANK	SIZE					
HSK A	32	40	50	63	100	125
HSK E	32	40	50	63		
HSK F	40	50	63	80		
PSC	4	5	6	8		
KM	63					
KZ	63					

BT30 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00BT30926-08070A	BT30 IR08-070-EX	IR08	70
T00BT30926-8S070A	BT30 IR8S-070-EX	IR8S	70
T00BT30926-11100A	BT30 IR11-100-EX	IR11	100
T00BT30926-16100A	BT30 IR16-100-EX	IR16	100
T00BT30926-20100A	BT30 IR20-100-EX	IR20	100
T00BT30926-25100A	BT30 IR25-100-EX	IR25	100
T00BT30926-32100A	BT30 IR32-100-EX	IR32	100
T00BT30926-32100AG	BT30 IR32-100-EXG	IR32	100

BT40 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00BT40926-08070A	BT40 IR08-070-EX	IR08	70
T00BT40926-8S070A	BT40 IR8S-070-EX	IR8S	70
T00BT40926-11070A	BT40 IR11-070-EX	IR11	70
T00BT40926-11100A	BT40 IR11-100-EX	IR11	100
T00BT40926-16100A	BT40 IR16-100-EX	IR16	100
T00BT40926-20100A	BT40 IR20-100-EX	IR20	100
T00BT40926-25100A	BT40 IR25-100-EX	IR25	100
T00BT40926-32100A	BT40 IR32-100-EX	IR32	100
T00BT40926-32100AG	BT40 IR32-100-EXG	IR32	100
T00BT40926-40100A	BT40 IR40-100-EX	IR40	100

BT50 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00BT50926-08070A	BT50 IR08-070-EX	IR08	70
T00BT50926-8S070A	BT50 IR8S-070-EX	IR8S	70
T00BT50926-11100A	BT50 IR11-100-EX	IR11	100
T00BT50926-16100A	BT50 IR16-100-EX	IR16	100
T00BT50926-20100A	BT50 IR20-100-EX	IR20	100
T00BT50926-25100A	BT50 IR25-100-EX	IR25	100
T00BT50926-32100A	BT50 IR32-100-EX	IR32	100
T00BT50926-32100AG	BT50 IR32-100-EXG	IR32	100
T00BT50926-40120A	BT50 IR40-120-EX	IR40	120
T00BT50926-42120A	BT50 IR42-120-EX	IR42	120

SK40 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00SK40926-08050A	SK40 IR08-050-EX	IR08	50
T00SK40926-8S050A	SK40 IR8S-050-EX	IR8S	50
T00SK40926-11070A	SK40 IR11-070-EX	IR11	70
T00SK40926-16100A	SK40 IR16-100-EX	IR16	100
T00SK40926-20100A	SK40 IR20-100-EX	IR20	100
T00SK40926-25100A	SK40 IR25-100-EX	IR25	100
T00SK40926-32100A	SK40 IR32-100-EX	IR32	100
T00SK40926-32100AG	SK40 IR32-100-EXG	IR32	100
T00SK40926-40120A	SK40 IR40-120-EX	IR40	120

SK50 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00SK50926-08050A	SK50 IR08-050-EX	IR08	50
T00SK50926-8S050A	SK50 IR8S-050-EX	IR8S	50
T00SK50926-11100A	SK50 IR11-100-EX	IR11	100
T00SK50926-16100A	SK50 IR16-100-EX	IR16	100
T00SK50926-20100A	SK50 IR20-100-EX	IR20	100
T00SK50926-25100A	SK50 IR25-100-EX	IR25	100
T00SK50926-32100A	SK50 IR32-100-EX	IR32	100
T00SK50926-32100AG	SK50 IR32-100-EXG	IR32	100
T00SK50926-40105A	SK50 IR40-105-EX	IR40	105
T00SK50926-41105A	SK50 IR41-105-EX	IR41	105



CAT40 I SYSTEM, IR EXTENSION BASE **INCH**

Order Number	Part Name	Base	L inch
T00CA40926-08072A	CAT40 IR08-2.82"-EX	IR08	2.82"
T00CA40926-8S072A	CAT40 IR8S-2.82"-EX	IR8S	2.82"
T00CA40926-11102A	CAT40 IR11-4"-EX	IR11	4.00"
T00CA40926-16102A	CAT40 IR16-4"-EX	IR16	4.00"
T00CA40926-20102A	CAT40 IR20-4"-EX	IR20	4.00"
T00CA40926-25102A	CAT40 IR25-4"-EX	IR25	4.00"
T00CA40926-32120A	CAT40 IR32-4.72"-EX	IR32	4.72"
T00CA40926-32120AG	CAT40 IR32-4.72"-EXG	IR32	4.72"
T00CA40926-40120A	CAT40 IR40-4.72"-EX	IR40	4.72"

CAT50 I SYSTEM, IR EXTENSION BASE **INCH**

Order Number	Part Name	Base	L inch
T00CA50926-08072A	CAT50 IR08-2.82"-EX	IR08	2.82"
T00CA50926-8S072A	CAT50 IR8S-2.82"-EX	IR8S	2.82"
T00CA50926-11102A	CAT50 IR11-4"-EX	IR11	4.00"
T00CA50926-16102A	CAT50 IR16-4"-EX	IR16	4.00"
T00CA50926-20102A	CAT50 IR20-4"-EX	IR20	4.00"
T00CA50926-25102A	CAT50 IR25-4"-EX	IR25	4.00"
T00CA50926-32102A	CAT50 IR32-4"-EX	IR32	4.00"
T00CA50926-32102AG	CAT50 IR32-4"-EXG	IR32	4.00"
T00CA50926-40105A	CAT50 IR40-4.13"-EX	IR40	4.13"

HSK A32 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HA32926-08050	HSK A32 IR08-050-EX	IR08	50
T00HA32926-8S050	HSK A32 IR8S-050-EX	IR8S	50
T00HA32926-11070	HSK A32 IR11-070-EX	IR11	70
T00HA32926-16100	HSK A32 IR16-100-EX	IR16	100

HSK A40 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HA40926-08050	HSK A40 IR08-050-EX	IR08	50
T00HA40926-8S050	HSK A40 IR8S-050-EX	IR8S	50
T00HA40926-11080	HSK A40 IR11-080-EX	IR11	80
T00HA40926-16080	HSK A40 IR16-080-EX	IR16	80
T00HA40926-20080	HSK A40 IR20-080-EX	IR20	80

HSK A50 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HA50926-08050	HSK A50 IR08-050-EX	IR08	50
T00HA50926-8S050	HSK A50 IR8S-050-EX	IR8S	50
T00HA50926-11070	HSK A50 IR11-070-EX	IR11	70
T00HA50926-16100	HSK A50 IR16-100-EX	IR16	100
T00HA50926-20100	HSK A50 IR20-100-EX	IR20	100
T00HA50926-25100	HSK A50 IR25-100-EX	IR25	100
T00HA50926-32110	HSK A50 IR32-110-EX	IR32	110

INDEX - IR BASE

HSK A63 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00HA63926-08070	HSK A63 IR08-070-EX	IR08	70
T00HA63926-8S070	HSK A63 IR8S-070-EX	IR8S	70
T00HA63926-11070	HSK A63 IR11-070-EX	IR11	70
T00HA63926-11100	HSK A63 IR11-100-EX	IR11	100
T00HA63926-16100	HSK A63 IR16-100-EX	IR16	100
T00HA63926-20100	HSK A63 IR20-100-EX	IR20	100
T00HA63926-25100	HSK A63 IR25-100-EX	IR25	100
T00HA63926-32110	HSK A63 IR32-110-EX	IR32	110
T00HA63626-32110G	HSK A63 IR32-100-EXG	IR32	110
T00HA63926-40120	HSK A63 IR40-120-EX	IR40	120

HSK A80 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00HA80926-16100	HSK A80 IR16-100-EX	IR16	100
T00HA80926-20100	HSK A80 IR20-100-EX	IR20	100
T00HA80926-25100	HSK A80 IR25-100-EX	IR25	100
T00HA80926-32100	HSK A80 IR32-110-EX	IR32	110
T00HA80926-40120	HSK A80 IR40-120-EX	IR40	120

HSK A100 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00HA10926-08070	HSK A100 IR08-070-EX	IR08	70
T00HA10926-8S070	HSK A100 IR8S-070-EX	IR8S	70
T00HA10926-11100	HSK A100 IR11-100-EX	IR11	100
T00HA10926-16100	HSK A100 IR16-100-EX	IR16	100
T00HA10926-20100	HSK A100 IR20-100-EX	IR20	100
T00HA10926-25100	HSK A100 IR25-100-EX	IR25	100
T00HA10926-32110	HSK A100 IR32-110-EX	IR32	110
T00HA10926-32110G	HSK A100 IR32-110-EXG	IR32	110
T00HA10926-40120	HSK A100 IR40-120-EX	IR40	120
T00HA10926-42120	HSK A100 IR42-120-EX	IR42	120

HSK A125 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00HA12926-16100	HSK A125 IR16-100-EX	IR16	100
T00HA12926-20100	HSK A125 IR20-100-EX	IR20	100
T00HA12926-25100	HSK A125 IR25-100-EX	IR25	100
T00HA12926-32110	HSK A125 IR32-110-EX	IR32	110
T00HA12926-40120	HSK A125 IR40-120-EX	IR40	120
T00HA12926-42120	HSK A125 IR42-120-EX	IR42	120

HSK E25 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00HE25926-08045	HSK E25 IR08-045-EX	IR08	45
T00HE25926-8S045	HSK E25 IR8S-045-EX	IR8S	45
T00HE25926-11050	HSK E25 IR11-050-EX	IR11	50

HSK E32 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00HE32926-08050	HSK E32 IR08-050-EX	IR08	50
T00HE32926-8S050	HSK E32 IR8S-050-EX	IR8S	50
T00HE32926-11070	HSK E32 IR11-070-EX	IR11	70
T00HE32926-16100	HSK E32 IR16-100-EX	IR16	100

HSK E40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00HE40926-08050	HSK E40 IR08-050-EX	IR08	50
T00HE40926-8S050	HSK E40 IR8S-050-EX	IR8S	50
T00HE40926-11080	HSK E40 IR11-080-EX	IR11	80
T00HE40926-16080	HSK E40 IR16-080-EX	IR16	80
T00HE40926-20080	HSK E40 IR20-080-EX	IR20	80

HSK E50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00HE50926-08050	HSK E50 IR08-050-EX	IR08	50
T00HE50926-8S050	HSK E50 IR8S-050-EX	IR8S	50
T00HE50926-11070	HSK E50 IR11-070-EX	IR11	70
T00HE50926-16100	HSK E50 IR16-100-EX	IR16	100
T00HE50926-20100	HSK E50 IR20-100-EX	IR20	100
T00HE50926-25100	HSK E50 IR25-100-EX	IR25	110
T00HE20926-32110	HSK E50 IR32-100-EX	IR32	120

HSK E63 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00HE63926-08070	HSK E63 IR08-070-EX	IR08	70
T00HE63926-8S070	HSK E63 IR8S-070-EX	IR8S	70
T00HE63926-11070	HSK E63 IR11-070-EX	IR11	70
T00HE63926-16100	HSK E63 IR16-100-EX	IR16	100
T00HE63926-20100	HSK E63 IR20-100-EX	IR20	100
T00HE63926-25100	HSK E63 IR25-100-EX	IR25	100
T00HE63926-32110	HSK E63 IR32-110-EX	IR32	110

HSK F40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00HF40926-08050	HSK F40 IR08-050-EX	IR08	50
T00HF40926-8S050	HSK F40 IR8S-050-EX	IR8S	50
T00HF40926-11070	HSK F40 IR11-070-EX	IR11	70
T00HF40926-16100	HSK F40 IR16-100-EX	IR16	100
T00HF40926-20100	HSK F40 IR20-100-EX	IR20	100

HSK F50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00HF50926-08050	HSK F50 IR08-050-EX	IR08	50
T00HF50926-8S050	HSK F50 IR8S-050-EX	IR8S	50
T00HF50926-11070	HSK F50 IR11-070-EX	IR11	70
T00HF50926-16100	HSK F50 IR16-100-EX	IR16	100
T00HF50926-20100	HSK F50 IR20-100-EX	IR20	100
T00HF50926-25100	HSK F50 IR25-100-EX	IR25	100
T00HF50926-32110	HSK F50 IR32-110-EX	IR32	110

HSK F63 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00HF63926-08050	HSK F63 IR08-050-EX	IR08	50
T00HF63926-8S050	HSK F63 IR8S-050-EX	IR8S	50
T00HF63926-11070	HSK F63 IR11-070-EX	IR11	70
T00HF63926-16100	HSK F63 IR16-100-EX	IR16	100
T00HF63926-20100	HSK F63 IR20-100-EX	IR20	100
T00HF63926-25100	HSK F63 IR25-100-EX	IR25	100
T00HF63926-32100	HSK F63 IR32-100-EX	IR32	100
T00HF63926-40120	HSK F63 IR40-120-EX	IR40	120

HSK F80 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00HF80926-08050	HSK F80 IR08-050-EX	IR08	50
T00HF80926-8S050	HSK F80 IR8S-050-EX	IR8S	50
T00HF80926-11070	HSK F80 IR11-070-EX	IR11	70
T00HF80926-16100	HSK F80 IR16-100-EX	IR16	100
T00HF80926-20100	HSK F80 IR20-100-EX	IR20	100
T00HF80926-25100	HSK F80 IR25-100-EX	IR25	100
T00HF80926-32100	HSK F80 IR32-100-EX	IR32	100
T00HF80926-40100	HSK F80 IR40-100-EX	IR40	100

INDEX - IR EXTENSION BASE - 928

IPE SYSTEM

SHANK	SIZE		
PBBT	30	40	50
PBCAT		40	50
PBSK		40	50

PBBT30 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00BT30928-08070A	PBBT30 IR08-070-EX	IR08	70
T00BT30928-8S070A	PBBT30 IR8S-070-EX	IR8S	70
T00BT30928-11100A	PBBT30 IR11-100-EX	IR11	100
T00BT30928-16100A	PBBT30 IR16-100-EX	IR16	100
T00BT30928-20100A	PBBT30 IR20-100-EX	IR20	100
T00BT30928-25100A	PBBT30 IR25-100-EX	IR25	100
T00BT30928-32100A	PBBT30 IR32-100-EX	IR32	100

PBBT40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00BT40928-08070A	PBBT40 IR08-070-EX	IR08	70
T00BT40928-8S070A	PBBT40 IR8S-070-EX	IR8S	70
T00BT40928-11070A	PBBT40 IR11-070-EX	IR11	70
T00BT40928-11100A	PBBT40 IR11-100-EX	IR11	100
T00BT40928-16100A	PBBT40 IR16-100-EX	IR16	100
T00BT40928-20100A	PBBT40 IR20-100-EX	IR20	100
T00BT40928-25100A	PBBT40 IR25-100-EX	IR25	100
T00BT40928-32100A	PBBT40 IR32-100-EX	IR32	100
T00BT40928-32100AG	PBBT40 IR32-100-EXG	IR32	100
T00BT40928-40100A	PBBT40 IR40-100-EX	IR40	100

PBBT50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00BT50928-08070A	PBBT50 IR08-070-EX	IR08	70
T00BT50928-8S070A	PBBT50 IR8S-070-EX	IR8S	70
T00BT50928-11100A	PBBT50 IR11-100-EX	IR11	100
T00BT50928-16100A	PBBT50 IR16-100-EX	IR16	100
T00BT50928-20100A	PBBT50 IR20-100-EX	IR20	100
T00BT50928-25100A	PBBT50 IR25-100-EX	IR25	100
T00BT50928-32100A	PBBT50 IR32-100-EX	IR32	100
T00BT50928-32100AG	PBBT50 IR32-100-EXG	IR32	100
T00BT50928-40120A	PBBT50 IR40-120-EX	IR40	120
T00BT50928-42120A	PBBT50 IR42-120-EX	IR42	120

PBSK40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00SK40928-08050A	PBSK40 IR08-050-EX	IR08	50
T00SK40928-8S050A	PBSK40 IR8S-050-EX	IR8S	50
T00SK40928-11070A	PBSK40 IR11-070-EX	IR11	70
T00SK40928-16100A	PBSK40 IR16-100-EX	IR16	100
T00SK40928-20100A	PBSK40 IR20-100-EX	IR20	100
T00SK40928-25100A	PBSK40 IR25-100-EX	IR25	100
T00SK40928-32100A	PBSK40 IR32-100-EX	IR32	100
T00SK40928-32100AG	PBSK40 IR32-100-EXG	IR32	100
T00SK40928-40120A	PBSK40 IR40-120-EX	IR40	120

PBCAT40 I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch
T00CA40928-08072A	PBCAT40 IR08-2.82"-EX	IR08	2.82"
T00CA40928-8S072A	PBCAT40 IR8S-2.82"-EX	IR8S	2.82"
T00CA40928-11102A	PBCAT40 IR11-4"-EX	IR11	4.00"
T00CA40928-16102A	PBCAT40 IR16-4"-EX	IR16	4.00"
T00CA40928-20102A	PBCAT40 IR20-4"-EX	IR20	4.00"
T00CA40928-25102A	PBCAT40 IR25-4"-EX	IR25	4.00"
T00CA40928-32120A	PBCAT40 IR32-4.72"-EX	IR32	4.72"
T00CA40928-32120AG	PBCAT40 IR32-4.72"-EXG	IR32	4.72"
T00CA40928-40120A	PBCAT40 IR40-4.72"-EX	IR40	4.72"

PBCAT50 I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch
T00CA50928-08072A	PBCAT50 IR08-2.82"-EX	IR08	2.82"
T00CA50928-8S072A	PBCAT50 IR8S-2.82"-EX	IR8S	2.82"
T00CA50928-11102A	PBCAT50 IR11-4"-EX	IR11	4.00"
T00CA50928-16102A	PBCAT50 IR16-4"-EX	IR16	4.00"
T00CA50928-20102A	PBCAT50 IR20-4"-EX	IR20	4.00"
T00CA50928-25102A	PBCAT50 IR25-4"-EX	IR25	4.00"
T00CA50928-32102A	PBCAT50 IR32-4"-EX	IR32	4.00"
T00CA50928-32102AG	PBCAT50 IR32-4"-EXG	IR32	4.00"
T00CA50928-40105A	PBCAT50 IR40-4.13"-EX	IR40	4.13"

PBSK50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00SK50928-08050A	PBSK50 IR08-050-EX	IR08	50
T00SK50928-8S050A	PBSK50 IR8S-050-EX	IR8S	50
T00SK50928-11100A	PBSK50 IR11-100-EX	IR11	100
T00SK50928-16100A	PBSK50 IR16-100-EX	IR16	100
T00SK50928-20100A	PBSK50 IR20-100-EX	IR20	100
T00SK50928-25100A	PBSK50 IR25-100-EX	IR25	100
T00SK50928-32100A	PBSK50 IR32-100-EX	IR32	100
T00SK50928-32100AG	PBSK50 IR32-100-EXG	IR32	100
T00SK50928-40105A	PBSK50 IR40-105-EX	IR40	105
T00SK50928-41105A	PBSK50 IR41-105-EX	IR41	105



INDEX - IR EXTENSION BASE - 929

IPE SYSTEM

SHANK	SIZE		
PBT	30	40	50
PCAT		40	50
PSK		40	50

PBT30 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00BT30929-08070A	PBT30 IR08-070-EX	IR08	70
T00BT30929-8S070A	PBT30 IR8S-070-EX	IR8S	70
T00BT30929-11100A	PBT30 IR11-100-EX	IR11	100
T00BT30929-16100A	PBT30 IR16-100-EX	IR16	100
T00BT30929-20100A	PBT30 IR20-100-EX	IR20	100
T00BT30929-25100A	PBT30 IR25-100-EX	IR25	100
T00BT30929-32100A	PBT30 IR32-100-EX	IR32	100



PBT40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00BT40929-08070A	PBT40 IR08-070-EX	IR08	70
T00BT40929-8S070A	PBT40 IR8S-070-EX	IR8S	70
T00BT40929-11070A	PBT40 IR11-070-EX	IR11	70
T00BT40929-11100A	PBT40 IR11-100-EX	IR11	100
T00BT40929-16100A	PBT40 IR16-100-EX	IR16	100
T00BT40929-20100A	PBT40 IR20-100-EX	IR20	100
T00BT40929-25100A	PBT40 IR25-100-EX	IR25	100
T00BT40929-32100A	PBT40 IR32-100-EX	IR32	100
T00BT40929-32100AG	PBT40 IR32-100-EXG	IR32	100
T00BT40929-40100A	PBT40 IR40-100-EX	IR40	100

PCAT40 I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch
T00CA40929-08072A	PCAT40 IR08-2.82"-EX	IR08	2.82"
T00CA40929-8S072A	PCAT40 IR8S-2.82"-EX	IR8S	2.82"
T00CA40929-11102A	PCAT40 IR11-4"-EX	IR11	4.00"
T00CA40929-16102A	PCAT40 IR16-4"-EX	IR16	4.00"
T00CA40929-20102A	PCAT40 IR20-4"-EX	IR20	4.00"
T00CA40929-25102A	PCAT40 IR25-4"-EX	IR25	4.00"
T00CA40929-32120A	PCAT40 IR32-4.72"-EX	IR32	4.72"
T00CA40929-32120AG	PCAT40 IR32-4.72"-EXG	IR32	4.72"
T00CA40929-40120A	PCAT40 IR40-4.72"-EX	IR40	4.72"

PBT50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00BT50929-08070A	PBT50 IR08-070-EX	IR08	70
T00BT50929-8S070A	PBT50 IR8S-070-EX	IR8S	70
T00BT50929-11100A	PBT50 IR11-100-EX	IR11	100
T00BT50929-16100A	PBT50 IR16-100-EX	IR16	100
T00BT50929-20100A	PBT50 IR20-100-EX	IR20	100
T00BT50929-25100A	PBT50 IR25-100-EX	IR25	100
T00BT50929-32100A	PBT50 IR32-100-EX	IR32	100
T00BT50929-32100AG	PBT50 IR32-100-EXG	IR32	100
T00BT50929-40120A	PBT50 IR40-120-EX	IR40	120
T00BT50929-42120A	PBT50 IR42-120-EX	IR42	120

PCAT50 I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch
T00CA50929-08072A	PCAT50 IR08-2.82"-EX	IR08	2.82"
T00CA50929-8S072A	PCAT50 IR8S-2.82"-EX	IR8S	2.82"
T00CA50929-11102A	PCAT50 IR11-4"-EX	IR11	4.00"
T00CA50929-16102A	PCAT50 IR16-4"-EX	IR16	4.00"
T00CA50929-20102A	PCAT50 IR20-4"-EX	IR20	4.00"
T00CA50929-25102A	PCAT50 IR25-4"-EX	IR25	4.00"
T00CA50929-32102A	PCAT50 IR32-4"-EX	IR32	4.00"
T00CA50929-32102AG	PCAT50 IR32-4"-EXG	IR32	4.00"
T00CA50929-40105A	PCAT50 IR40-4.13"-EX	IR40	4.13"

PSK40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00SK40929-08050A	PSK40 IR08-050-EX	IR08	50
T00SK40929-8S050A	PSK40 IR8S-050-EX	IR8S	50
T00SK40929-11070A	PSK40 IR11-070-EX	IR11	70
T00SK40929-16100A	PSK40 IR16-100-EX	IR16	100
T00SK40929-20100A	PSK40 IR20-100-EX	IR20	100
T00SK40929-25100A	PSK40 IR25-100-EX	IR25	100
T00SK40929-32100A	PSK40 IR32-100-EX	IR32	100
T00SK40929-32100AG	PSK40 IR32-100-EXG	IR32	100
T00SK40929-40120A	PSK40 IR40-120-EX	IR40	120

PSK50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00SK50929-08050A	PSK50 IR08-050-EX	IR08	50
T00SK50929-8S050A	PSK50 IR8S-050-EX	IR8S	50
T00SK50929-11100A	PSK50 IR11-100-EX	IR11	100
T00SK50929-16100A	PSK50 IR16-100-EX	IR16	100
T00SK50929-20100A	PSK50 IR20-100-EX	IR20	100
T00SK50929-25100A	PSK50 IR25-100-EX	IR25	100
T00SK50929-32100A	PSK50 IR32-100-EX	IR32	100
T00SK50929-32100AG	PSK50 IR32-100-EXG	IR32	100
T00SK50929-40105A	PSK50 IR40-105-EX	IR40	105
T00SK50929-41105A	PSK50 IR41-105-EX	IR41	105

INDEX - IR08 EXTENSION

BT- I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm	Qty
T00BT30926-08070A	BT30 IR08-070-EX	IR08	70	
T00BT30926-8S070A	BT30 IR8S-070-EX	IR8S	70	
T00BT40926-08070A	BT40 IR08-070-EX	IR08	70	
T00BT40926-8S070A	BT40 IR8S-070-EX	IR8S	70	
T00BT50926-08070A	BT50 IR08-070-EX	IR08	70	
T00BT50926-8S070A	BT50 IR8S-070-EX	IR8S	70	

PBBT- IPE SYSTEM, IR EXTENSION BASE **METRIC** BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-08070A	PBBT30 IR08-070-EX	IR08	70	
T00BT30928-8S070A	PBBT30 IR8S-070-EX	IR8S	70	
T00BT40928-08070A	PBBT40 IR08-070-EX	IR08	70	
T00BT40928-8S070A	PBBT40 IR8S-070-EX	IR8S	70	
T00BT50928-08070A	PBBT50 IR08-070-EX	IR08	70	
T00BT50928-8S070A	PBBT50 IR8S-070-EX	IR8S	70	

PBT- IPE SYSTEM, IR EXTENSION BASE **METRIC** STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30929-08070A	PBT30 IR08-070-EX	IR08	70	
T00BT30929-8S070A	PBT30 IR8S-070-EX	IR8S	70	
T00BT40929-08070A	PBT40 IR08-070-EX	IR08	70	
T00BT40929-8S070A	PBT40 IR8S-070-EX	IR8S	70	
T00BT50929-08070A	PBT50 IR08-070-EX	IR08	70	
T00BT50929-8S070A	PBT50 IR8S-070-EX	IR8S	70	

CAT- I SYSTEM, IR EXTENSION BASE **INCH**

Order Number	Part Name	Base	L inch	Qty
T00CA40926-08072A	CAT40 IR08-2.82"-EX	IR08	2.82"	
T00CA40926-8S072A	CAT40 IR8S-2.82"-EX	IR8S	2.82"	
T00CA50926-08072A	CAT50 IR08-2.82"-EX	IR08	2.82"	
T00CA50926-8S072A	CAT50 IR8S-2.82"-EX	IR8S	2.82"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE **INCH** BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-08072A	PBCAT40 IR08-2.82"-EX	IR08	2.82"	
T00CA40928-8S072A	PBCAT40 IR8S-2.82"-EX	IR8S	2.82"	
T00CA50928-08072A	PBCAT40 IR08-2.82"-EX	IR08	2.82"	
T00CA50928-8S072A	PBCAT40 IR8S-2.82"-EX	IR8S	2.82"	

PCAT- IPE SYSTEM, IR EXTENSION BASE **INCH** STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-08072A	PCAT40 IR8-2.82"-EX	IR08	2.82"	
T00CA40929-8S072A	PCAT40 IR8S-2.82"-EX	IR8S	2.82"	
T00CA50929-08072A	PCAT50 IR08-2.82"-EX	IR08	2.82"	
T00CA50929-8S072A	PCAT50 IR8S-2.82"-EX	IR8S	2.82"	

SK- I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm	Qty
T00SK40926-08050A	SK40 IR08-050-EX	IR08	50	
T00SK40926-8S050A	SK40 IR8S-050-EX	IR8S	50	
T00SK50926-08050A	SK50 IR08-050-EX	IR08	50	
T00SK50926-8S050A	SK50 IR8S-050-EX	IR8S	50	

PBSK- IPE SYSTEM, IR EXTENSION BASE **METRIC** BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-08050A	PBSK40 IR08-050-EX	IR08	50	
T00SK40928-8S050A	PBSK40 IR8S-050-EX	IR8S	50	
T00SK50928-08050A	PBSK50 IR08-050-EX	IR08	50	
T00SK50928-8S050A	PBSK50 IR8S-050-EX	IR8S	50	

PSK- IPE SYSTEM, IR EXTENSION BASE **METRIC** STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-08050A	PSK40 IR08-050-EX	IR08	50	
T00SK40929-8S050A	PSK40 IR8S-050-EX	IR8S	50	
T00SK50929-08050A	PSK50 IR08-050-EX	IR08	50	
T00SK50929-8S050A	PSK50 IR8S-050-EX	IR8S	50	

HSK A - I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HA32926-08050	HSK A32 IR08-050-EX	IR08	50	
T00HA32926-8S050	HSK A32 IR8S-050-EX	IR8S	50	
T00HA40926-08050	HSK A40 IR08-050-EX	IR08	50	
T00HA40926-8S050	HSK A40 IR8S-050-EX	IR8S	50	
T00HA50926-08050	HSK A50 IR08-050-EX	IR08	50	
T00HA50926-8S050	HSK A50 IR8S-050-EX	IR8S	50	
T00HA63926-08070	HSK A63 IR08-050-EX	IR08	70	
T00HA63926-8S070	HSK A63 IR8S-050-EX	IR8S	70	
T00HA10926-08070	HSK A100 IR08-070-EX	IR08	70	
T00HA10926-8S070	HSK A100 IR8S-070-EX	IR8S	70	

HSK E - I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HE25926-08045	HSK E25 IR08-045-EX	IR08	45	
T00HE25926-8S045	HSK E25 IR8S-045-EX	IR8S	45	
T00HE32926-08050	HSK E32 IR08-050-EX	IR08	50	
T00HE32926-8S050	HSK E32 IR8S-050-EX	IR8S	50	
T00HE40926-08050	HSK E40 IR08-050-EX	IR08	50	
T00HE40926-8S050	HSK E40 IR8S-050-EX	IR8S	50	
T00HE50926-08050	HSK E50 IR08-050-EX	IR08	50	
T00HE50926-8S050	HSK E50 IR8S-050-EX	IR8S	50	
T00HE63926-08070	HSK E63 IR08-070-EX	IR08	70	
T00HE63926-8S070	HSK E63 IR8S-070-EX	IR8S	70	

HSK F - I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HF40926-08050	HSK F40 IR08-050-EX	IR08	50	
T00HF40926-8S050	HSK F40 IR8S-050-EX	IR8S	50	
T00HF50926-08050	HSK F50 IR08-050-EX	IR08	50	
T00HF50926-8S050	HSK F50 IR8S-050-EX	IR8S	50	
T00HF63926-08050	HSK F63 IR08-050-EX	IR08	50	
T00HF63926-8S050	HSK F63 IR8S-050-EX	IR8S	50	
T00HF80926-08050	HSK F80 IR08-050-EX	IR08	50	
T00HF80926-8S050	HSK F80 IR8S-050-EX	IR8S	50	

INDEX - IR08 EXTENSION

IR EXTENSION BASE **METRIC - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER08A926-08035	IR08-IR08-035-EX	IR08	IR08	35	
T12ER08A926-08050	IR08-IR08-050-EX	IR08	IR08	50	
T12ER08A926-08100	IR08-IR08-100-EX	IR08	IR08	100	

IR EXTENSION BASE **INCH - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER08A926A08034	IR08-IR08-1.32"-EX	IR08	IR08	1.32"	
T12ER08A926A08051	IR08-IR08-2"-EX	IR08	IR08	2.00"	
T12ER08A926A08072	IR08-IR08-2.84"-EX	IR08	IR08	2.84"	
T12ER08A926A08102	IR08-IR08-4"-EX	IR08	IR08	4.00"	

ER COLLET CHUCK **MINI NUT METRIC - M20**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER08AM20-08060	IR08-ER08-060M	IR08	ER08M	60	
T12ER08AM20-08090	IR08-ER08-090M	IR08	ER08M	90	
T12ER08AM20-08100	IR08-ER08-100M	IR08	ER08M	100	
T12ER08AM20-08130	IR08-ER08-130M	IR08	ER08M	130	

ER COLLET CHUCK **MINI NUT INCH - M20**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER08AM20A08051	IR08-ER08-2.0"M	IR08	ER08M	2.00"	
T12ER08AM20A08081	IR08-ER08-3.19"M	IR08	ER08M	3.19"	
T12ER08AM20A08102	IR08-ER08-4.0"M	IR08	ER08M	4.00"	
T12ER08AM20A08132	IR08-ER08-5.19"M	IR08	ER08M	5.19"	

SHRINK - FIT HOLODER **3° SLIM METRIC - 250**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER08A250-03060	IR08-SF03-060-3° slim	IR08	SF03	60	
T12ER08A250-03100	IR08-SF03-100-3° slim	IR08	SF03	100	
T12ER08A250-04060	IR08-SF04-060-3° slim	IR08	SF04	60	
T12ER08A250-04100	IR08-SF04-100-3° slim	IR08	SF04	100	
T12ER08A250-05060	IR08-SF05-060-3° slim	IR08	SF05	60	
T12ER08A250-05100	IR08-SF05-100-3° slim	IR08	SF05	100	
T12ER08A250-06060	IR08-SF06-060-3° slim	IR08	SF06	60	
T12ER08A250-06100	IR08-SF06-100-3° slim	IR08	SF06	100	

SHRINK - FIT HOLODER **3° SLIM INCH - 250**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER08A250A03060	IR08-SF1/8"-2.36"-3° slim	IR08	SF1/8"	2.36"	
T12ER08A250A03102	IR08-SF1/8"-4"-3° slim	IR08	SF1/8"	4.00"	
T12ER08A250A05060	IR08-SF3/16"-2.36"-3° slim	IR08	SF3/16"	2.36"	
T12ER08A250A05102	IR08-SF3/16"-4"-3° slim	IR08	SF3/16"	4.00"	
T12ER08A250A06060	IR08-SF1/4"-2.36"-3° slim	IR08	SF1/4"	2.36"	
T12ER08A250A06102	IR08-SF1/4"-4"-3° slim	IR08	SF1/4"	4.00"	

INDEX - IR8S EXTENSION

BT - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00BT30926-08070A	BT30 IR08-070-EX	IR08	70	
T00BT30926-8S070A	BT30 IR8S-070-EX	IR8S	70	
T00BT40926-08070A	BT40 IR08-070-EX	IR08	70	
T00BT40926-8S070A	BT40 IR8S-070-EX	IR8S	70	
T00BT50926-08070A	BT50 IR08-070-EX	IR08	70	
T00BT50926-8S070A	BT50 IR8S-070-EX	IR8S	70	

PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-08070A	PBBT30 IR08-070-EX	IR08	70	
T00BT30928-8S070A	PBBT30 IR8S-070-EX	IR8S	70	
T00BT40928-08070A	PBBT40 IR08-070-EX	IR08	70	
T00BT40928-8S070A	PBBT40 IR8S-070-EX	IR8S	70	
T00BT50928-08070A	PBBT50 IR08-070-EX	IR08	70	
T00BT50928-8S070A	PBBT50 IR8S-070-EX	IR8S	70	

PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-08070A	PBBT30 IR08-070-EX	IR08	70	
T00BT30928-8S070A	PBBT30 IR8S-070-EX	IR8S	70	
T00BT40928-08070A	PBBT40 IR08-070-EX	IR08	70	
T00BT40928-8S070A	PBBT40 IR8S-070-EX	IR8S	70	
T00BT50928-08070A	PBBT50 IR08-070-EX	IR08	70	
T00BT50928-8S070A	PBBT50 IR8S-070-EX	IR8S	70	

CAT- I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch	Qty
T00CA40926-08072A	CAT40 IR08-2.82"-EX	IR08	2.82"	
T00CA40926-8S072A	CAT40 IR8S-2.82"-EX	IR8S	2.82"	
T00CA50926-08072A	CAT50 IR08-2.82"-EX	IR08	2.82"	
T00CA50926-8S072A	CAT50 IR8S-2.82"-EX	IR8S	2.82"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-08072A	PBCAT40 IR08-2.82"-EX	IR08	2.82"	
T00CA40928-8S072A	PBCAT40 IR8S-2.82"-EX	IR8S	2.82"	
T00CA50928-08072A	PBCAT50 IR08-2.82"-EX	IR08	2.82"	
T00CA50928-8S072A	PBCAT80 IR8S-2.82"-EX	IR8S	2.82"	

PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-08072A	PCAT40 IR8-2.82"-EX	IR08	2.82"	
T00CA40929-8S072A	PCAT40 IR8S-2.82"-EX	IR8S	2.82"	
T00CA50929-08072A	PCAT50 IR08-2.82"-EX	IR08	2.82"	
T00CA50929-8S072A	PCAT50 IR8S-2.82"-EX	IR8S	2.82"	

SK- I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00SK40926-08050A	SK40 IR08-050-EX	IR08	50	
T00SK40926-8S050A	SK40 IR8S-050-EX	IR8S	50	
T00SK50926-08050A	SK50 IR08-050-EX	IR08	50	
T00SK50926-8S050A	SK50 IR8S-050-EX	IR8S	50	

PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-08050A	PBSK40 IR08-050-EX	IR08	50	
T00SK40928-8S050A	PBSK40 IR8S-050-EX	IR8S	50	
T00SK50928-08050A	PBSK50 IR08-050-EX	IR08	50	
T00SK50928-8S050A	PBSK50 IR8S-050-EX	IR8S	50	

PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-08050A	PSK40 IR08-050-EX	IR08	50	
T00SK40929-8S050A	PSK40 IR8S-050-EX	IR8S	50	
T00SK40929-08050A	PSK40 IR08-050-EX	IR08	50	
T00SK40929-8S050A	PSK40 IR8S-050-EX	IR8S	50	

HSK A - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HA32926-08050	HSK A32 IR08-050-EX	IR08	50	
T00HA32926-8S050	HSK A32 IR8S-050-EX	IR8S	50	
T00HA40926-08050	HSK A40 IR08-050-EX	IR08	50	
T00HA40926-8S050	HSK A40 IR8S-050-EX	IR8S	50	
T00HA50926-08050	HSK A50 IR08-050-EX	IR08	50	
T00HA50926-8S050	HSK A50 IR8S-050-EX	IR8S	50	
T00HA63926-08070	HSK A63 IR08-050-EX	IR08	70	
T00HA63926-8S070	HSK A63 IR8S-050-EX	IR8S	70	
T00HA10926-08070	HSK A100 IR08-070-EX	IR08	70	
T00HA10926-8S070	HSK A100 IR8S-070-EX	IR8S	70	

HSK E - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HE25926-08045	HSK E25 IR08-045-EX	IR08	45	
T00HE25926-8S045	HSK E25 IR8S-045-EX	IR8S	45	
T00HE32926-08050	HSK E32 IR08-050-EX	IR08	50	
T00HE32926-8S050	HSK E32 IR8S-050-EX	IR8S	50	
T00HE40926-08050	HSK E40 IR08-050-EX	IR08	50	
T00HE40926-8S050	HSK E40 IR8S-050-EX	IR8S	50	
T00HE50926-08050	HSK E50 IR08-050-EX	IR08	50	
T00HE50926-8S050	HSK E50 IR8S-050-EX	IR8S	50	
T00HE63926-08070	HSK E63 IR08-070-EX	IR08	70	
T00HE63926-8S070	HSK E63 IR8S-070-EX	IR8S	70	

HSK F - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HF40926-08050	HSK F40 IR08-050-EX	IR08	50	
T00HF40926-8S050	HSK F40 IR8S-050-EX	IR8S	50	
T00HF50926-08050	HSK F50 IR08-050-EX	IR08	50	
T00HF50926-8S050	HSK F50 IR8S-050-EX	IR8S	50	
T00HF63926-08050	HSK F63 IR08-050-EX	IR08	50	
T00HF63926-8S050	HSK F63 IR8S-050-EX	IR8S	50	
T00HF80926-08050	HSK F80 IR08-050-EX	IR08	50	
T00HF80926-8S050	HSK F80 IR8S-050-EX	IR8S	50	

INDEX - IR8S EXTENSION

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA926-08050	IR8S-IR08-050-EX	IR8S	IR08	50	
T12ER8SA926-08100	IR8S-IR08-100-EX	IR8S	IR08	100	
T12ER8SA926-8S050	IR8S-IR8S-050-EX	IR8S	IR8S	50	
T12ER8SA926-8S100	IR8S-IR8S-100-EX	IR8S	IR8S	100	

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA926A08102	IR8S-IR08-4"-EX	IR8S	IR08	4.00"	
T12ER8SA926A8S102	IR8S-IR8S-4"-EX	IR8S	IR8S	4.00"	
T12ER8SA926A8S127	IR8S-IR8S-5"-EX	IR8S	IR8S	5.00"	

ER COLLET CHUCK MINI NUT METRIC - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SAM20-08060	IR8S-ER08-060M	IR8S	ER08M	60	
T12ER8SAM20-08100	IR8S-ER08-100M	IR8S	ER08M	100	
T12ER8SAM20-11030	IR8S-ER11-030M	IR8S	ER11M	30	
T12ER8SAM20-11060	IR8S-ER11-060M	IR8S	ER11M	60	
T12ER8SAM20-11100	IR8S-ER11-100M	IR8S	ER11M	100	

ER COLLET CHUCK MINI NUT INCH - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SAM20A08051	IR8S-ER8-2.0"M	IR8S	ER08M	2.00"	
T12ER8SAM20A08102	IR8S-ER8-4.0"M	IR8S	ER08M	4.00"	
T12ER8SAM20A11051	IR8S-ER11-2.0"M	IR8S	ER11M	2.00"	
T12ER8SAM20A11102	IR8S-ER11-4.0"M	IR8S	ER11M	4.00"	

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA220-03060	IR8S-SF03-060-4.5°	IR8S	SF03	60	
T12ER8SA220-03100	IR8S-SF03-100-4.5°	IR8S	SF03	100	

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA220A03051	IR8S-SF1/8"-2"-4.5°	IR8S	SF1/8"	2.00"	
T12ER8SA220A03102	IR8S-SF1/8"-4"-4.5°	IR8S	SF1/8"	4.00"	

SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA240-03060	IR8S-SF03-060-3°	IR8S	SF03	60	
T12ER8SA240-03100	IR8S-SF03-100-3°	IR8S	SF03	100	
T12ER8SA240-04060	IR8S-SF04-060-3°	IR8S	SF04	60	
T12ER8SA240-04100	IR8S-SF04-100-3°	IR8S	SF04	100	
T12ER8SA240-05060	IR8S-SF05-060-3°	IR8S	SF05	60	
T12ER8SA240-05100	IR8S-SF05-100-3°	IR8S	SF05	100	
T12ER8SA240-06060	IR8S-SF06-060-3°	IR8S	SF06	60	
T12ER8SA240-06100	IR8S-SF06-100-3°	IR8S	SF06	100	

SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA240A03051	IR8S-SF1/8"-2"-3°	IR8S	SF1/8"	2.00"	
T12ER8SA240A03102	IR8S-SF1/8"-4"-3°	IR8S	SF1/8"	4.00"	
T12ER8SA240A05051	IR8S-SF3/16"-2"-3°	IR8S	SF3/16"	2.00"	
T12ER8SA240A05102	IR8S-SF3/16"-4"-3°	IR8S	SF3/16"	4.00"	
T12ER8SA240A06051	IR8S-SF1/4"-2"-3°	IR8S	SF1/4"	2.00"	
T12ER8SA240A06102	IR8S-SF1/4"-4"-3°	IR8S	SF1/4"	4.00"	

SHRINK - FIT HOLODER 3° SLIM METRIC - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA250-03060	IR8S-SF03-060-3° slim	IR8S	SF03	60	
T12ER8SA250-03100	IR8S-SF03-100-3° slim	IR8S	SF03	100	
T12ER8SA250-04060	IR8S-SF04-060-3° slim	IR8S	SF04	60	
T12ER8SA250-04100	IR8S-SF04-100-3° slim	IR8S	SF04	100	
T12ER8SA250-05060	IR8S-SF05-060-3° slim	IR8S	SF05	60	
T12ER8SA250-05100	IR8S-SF05-100-3° slim	IR8S	SF05	100	
T12ER8SA250-06060	IR8S-SF06-060-3° slim	IR8S	SF06	60	
T12ER8SA250-06100	IR8S-SF06-100-3° slim	IR8S	SF06	100	
T12ER8SA250-08060	IR8S-SF08-060-3° slim	IR8S	SF08	60	
T12ER8SA250-08100	IR8S-SF08-100-3° slim	IR8S	SF08	100	
T12ER8SA250-10060	IR8S-SF10-060-3° slim	IR8S	SF10	60	
T12ER8SA250-10100	IR8S-SF10-100-3° slim	IR8S	SF10	100	

SHRINK - FIT HOLODER 3° SLIM INCH - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA250A03060	IR8S-SF1/8"-2.36"-3° slim	IR8S	SF1/8"	2.36"	
T12ER8SA250A03102	IR8S-SF1/8"-4"-3° slim	IR8S	SF1/8"	4.00"	
T12ER8SA250A05060	IR8S-SF3/16"-2.36"-3° slim	IR8S	SF3/16"	2.36"	
T12ER8SA250A05102	IR8S-SF3/16"-4"-3° slim	IR8S	SF3/16"	4.00"	
T12ER8SA250A06060	IR8S-SF1/4"-2.36"-3° slim	IR8S	SF1/4"	2.36"	
T12ER8SA250A06102	IR8S-SF1/4"-4"-3° slim	IR8S	SF1/4"	4.00"	
T12ER8SA250A08060	IR8S-SF5/16"-2.36"-3° slim	IR8S	SF5/16"	2.36"	
T12ER8SA250A08102	IR8S-SF5/16"-4"-3° slim	IR8S	SF5/16"	4.00"	
T12ER8SA250A09102	IR8S-SF3/8"-4"-3° slim	IR8S	SF3/8"	4.00"	

INDEX - IR11 EXTENSION
BT - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00BT30926-11100A	BT30 IR11-100-EX	IR11	100	
T00BT40926-11070A	BT40 IR11-070-EX	IR11	70	
T00BT40926-11100A	BT40 IR11-100-EX	IR11	100	
T00BT50926-11100A	BT50 IR11-100-EX	IR11	100	

PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-11100A	PBBT30 IR11-100-EX	IR11	100	
T00BT40928-11070A	PBBT40 IR11-070-EX	IR11	70	
T00BT40928-11100A	PBBT40 IR11-100-EX	IR11	100	
T00BT50928-11100A	PBBT50 IR11-100-EX	IR11	100	

PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30929-11100A	PBT30 IR11-100-EX	IR11	100	
T00BT40929-11070A	PBT40 IR11-070-EX	IR11	70	
T00BT40929-11100A	PBT40 IR11-100-EX	IR11	100	
T00BT50929-11100A	PBT50 IR11-100-EX	IR11	100	

CAT - I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch	Qty
T00CA40926-11102A	CAT40 IR11-4"-EX	IR11	4.00"	
T00CA50926-11102A	CAT50 IR11-4"-EX	IR11	4.00"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-11102A	PBCAT40 IR11-4"-EX	IR11	4.00"	
T00CA50928-11102A	PBCAT50 IR11-4"-EX	IR11	4.00"	

PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-11102A	PCAT40 IR11-4"-EX	IR11	4.00"	
T00CA50929-11102A	PCAT50 IR11-4"-EX	IR11	4.00"	

HSK A - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HA32926-11070	HSK A32 IR11-070-EX	IR11	70	
T00HA40926-11080	HSK A40 IR11-080-EX	IR11	80	
T00HA50926-11070	HSK A50 IR11-070-EX	IR11	70	
T00HA63926-11070	HSK A63 IR11-070-EX	IR11	70	
T00HA63926-11100	HSK A63 IR11-100-EX	IR11	100	
T00HA10926-11100	HSK A100 IR11-100-EX	IR11	100	

HSK E - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HE25926-11050	HSK E25 IR11-050-EX	IR11	50	
T00HE32926-11070	HSK E32 IR11-070-EX	IR11	70	
T00HE40926-11080	HSK E40 IR11-080-EX	IR11	80	
T00HE50926-11070	HSK E50 IR11-070-EX	IR11	70	
T00HE63926-11070	HSK E63 IR11-070-EX	IR11	70	

HSK F - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HF40926-11070	HSK F40 IR11-070-EX	IR11	70	
T00HF50926-11070	HSK F50 IR11-070-EX	IR11	70	
T00HF63926-11070	HSK F63 IR11-070-EX	IR11	70	
T00HF80926-11070	HSK F80 IR11-070-EX	IR11	70	

SK - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00SK40926-11070A	SK40 IR11-070-EX	IR11	70	
T00SK50926-11100A	SK50 IR11-100-EX	IR11	100	

PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-11070A	PBSK40 IR11-070-EX	IR11	70	
T00SK50928-11100A	PBSK50 IR11-100-EX	IR11	100	

PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-11070A	PSK40 IR11-070-EX	IR11	70	
T00SK50929-11100A	PSK50 IR11-100-EX	IR11	100	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A926-08020	IR11-IR08-020-EX	IR11	IR08	20	
T12ER11A926-08050	IR11-IR08-050-EX	IR11	IR08	50	
T12ER11A926-08070	IR11-IR08-070-EX	IR11	IR08	70	
T12ER11A926-08100	IR11-IR08-100-EX	IR11	IR08	100	
T12ER11A926-8S050	IR11-IR8S-050-EX	IR11	IR8S	50	
T12ER11A926-8S070	IR11-IR8S-070-EX	IR11	IR8S	70	
T12ER11A926-8S100	IR11-IR8S-100-EX	IR11	IR8S	100	
T12ER11A926-11100	IR11-IR11-100-EX	IR11	IR11	100	
T12ER11A926-11200	IR11-IR11-200-EX	IR11	IR11	200	

ER COLLET CHUCK MINI NUT METRIC - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SAM20-08060	IR8S-ER08-060M	IR8S	ER08M	60	
T12ER8SAM20-08100	IR8S-ER08-100M	IR8S	ER08M	100	
T12ER8SAM20-11030	IR8S-ER11-030M	IR8S	ER11M	30	
T12ER8SAM20-11060	IR8S-ER11-060M	IR8S	ER11M	60	
T12ER8SAM20-11100	IR8S-ER11-100M	IR8S	ER11M	100	

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A020-11060	IR11-ER11-060	IR11	ER11	60	
T12ER11A020-11100	IR11-ER11-100	IR11	ER11	100	

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A926A08102	IR11-IR08-4"-EX	IR11	IR08	4.00"	
T12ER11A926A8S102	IR11-IR8S-4"-EX	IR11	IR8S	4.00"	
T12ER11A926A11102	IR11-IR11-4"-EX	IR11	IR11	4.00"	
T12ER11A926A11127	IR11-IR11-5"-EX	IR11	IR11	5.00"	
T12ER11A926A11203	IR11-IR11-8"-EX	IR11	IR11	8.00"	

ER COLLET CHUCK MINI NUT INCH - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SAM20A08051	IR8S-ER8-2.0"M	IR8S	ER08M	2.00"	
T12ER8SAM20A08102	IR8S-ER8-4.0"M	IR8S	ER08M	4.00"	
T12ER8SAM20A11051	IR8S-ER11-2.0"M	IR8S	ER11M	2.00"	
T12ER8SAM20A11102	IR8S-ER11-4.0"M	IR8S	ER11M	4.00"	

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A020A11051	IR11-ER11-2.0"	IR11	ER11	2.00"	
T12ER11A020A11102	IR11-ER11-4.0"	IR11	ER11	4.00"	

INDEX - IR11 EXTENSION

SCREW-IN HOLDER METRIC - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A200-08060	IR11-M08-060	IR11	M08	60	
T12ER11A200-08100	IR11-M08-100	IR11	M08	100	
T12ER11A200-10060	IR11-M10-060	IR11	M10	60	
T12ER11A200-10100	IR11-M10-100	IR11	M10	100	

SLIM COLLET CHUCK METRIC - 210

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A210-06100	IR11-HC06-100	IR11	HC06	100	

END MILL HOLDER COOLANT SLOT INCH - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A030A03051	IR11-EM1/8"-2.0"J	IR11	EM1/8"	2.00"	
T12ER11A030A03102	IR11-EM1/8"-4.0"J	IR11	EM1/8"	4.00"	
T12ER11A030A05051	IR11-EM3/16"-2.0"J	IR11	EM3/16"	2.00"	
T12ER11A030A05102	IR11-EM3/16"-4.0"J	IR11	EM3/16"	4.00"	
T12ER11A030A06051	IR11-EM1/4"-2.0"J	IR11	EM1/4"	2.00"	
T12ER11A030A06102	IR11-EM1/4"-4.0"J	IR11	EM1/4"	4.00"	

END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A040A03051	IR11-EM1/8"-2.0"	IR11	EM1/8"	2.00"	
T12ER11A040A03102	IR11-EM1/8"-4.0"	IR11	EM1/8"	4.00"	
T12ER11A040A05051	IR11-EM3/16"-2.0"	IR11	EM3/16"	2.00"	
T12ER11A040A05102	IR11-EM3/16"-4.0"	IR11	EM3/16"	4.00"	
T12ER11A040A06051	IR11-EM1/4"-2.0"	IR11	EM1/4"	2.00"	
T12ER11A040A06102	IR11-EM1/4"-4.0"	IR11	EM1/4"	4.00"	

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA220-03060	IR8S-SF03-060-4.5°	IR8S	SF03	60	
T12ER8SA220-03100	IR8S-SF03-100-4.5°	IR8S	SF03	60	

SHRINK - FIT HOLODER 4.5° SLIM METRIC - 230

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A200-08060	IR11-M08-060	IR11	M08	60	
T12ER11A200-08100	IR11-M08-100	IR11	M08	100	
T12ER11A200-10060	IR11-M10-060	IR11	M10	60	
T12ER11A200-10100	IR11-M10-100	IR11	M10	100	

SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A240-03060	IR11-SF03-060-3°	IR11	SF03	60	
T12ER11A240-03100	IR11-SF03-100-3°	IR11	SF03	100	
T12ER11A240-04060	IR11-SF04-060-3°	IR11	SF04	60	
T12ER11A240-04100	IR11-SF04-100-3°	IR11	SF04	100	
T12ER11A240-05060	IR11-SF05-060-3°	IR11	SF05	60	
T12ER11A240-05100	IR11-SF05-100-3°	IR11	SF05	100	
T12ER11A240-06060	IR11-SF06-060-3°	IR11	SF06	60	
T12ER11A240-06100	IR11-SF06-100-3°	IR11	SF06	100	
T12ER11A240-08060	IR11-SF08-060-3°	IR11	SF08	60	
T12ER11A240-08100	IR11-SF08-100-3°	IR11	SF08	100	
T12ER11A240-10060	IR11-SF10-060-3°	IR11	SF10	60	
T12ER11A240-10100	IR11-SF10-100-3°	IR11	SF10	100	
T12ER11A240-12060	IR11-SF12-060-3°	IR11	SF12	60	
T12ER11A240-12100	IR11-SF12-100-3°	IR11	SF12	100	

SHRINK - FIT HOLODER 3° SLIM METRIC - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A250-03060	IR11-SF03-060-3° slim	IR11	SF03	60	
T12ER11A250-03100	IR11-SF03-100-3° slim	IR11	SF03	100	
T12ER11A250-04060	IR11-SF04-060-3° slim	IR11	SF04	60	
T12ER11A250-04100	IR11-SF04-100-3° slim	IR11	SF04	100	
T12ER11A250-05060	IR11-SF05-060-3° slim	IR11	SF05	60	
T12ER11A250-05100	IR11-SF05-100-3° slim	IR11	SF05	100	
T12ER11A250-06060	IR11-SF06-060-3° slim	IR11	SF06	60	
T12ER11A250-06100	IR11-SF06-100-3° slim	IR11	SF06	100	
T12ER11A250-08060	IR11-SF08-060-3° slim	IR11	SF08	60	
T12ER11A250-08100	IR11-SF08-100-3° slim	IR11	SF08	100	
T12ER11A250-10060	IR11-SF10-060-3° slim	IR11	SF10	60	
T12ER11A250-10100	IR11-SF10-100-3° slim	IR11	SF10	100	
T12ER11A250-12060	IR11-SF12-060-3° slim	IR11	SF12	60	
T12ER11A250-12100	IR11-SF12-100-3° slim	IR11	SF12	100	

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA220A03051	IR8S-SF1/8"-2"-4.5°	IR8S	SF1/8"	2.00"	
T12ER8SA220A03102	IR8S-SF1/8"-4"-4.5°	IR8S	SF1/8"	4.00"	

SHRINK - FIT HOLODER 4.5° SLIM INCH - 230

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A200A08060	IR11-M08-2.36"	IR11	M08	2.36"	
T12ER11A200A08100	IR11-M08-3.94"	IR11	M08	3.94"	
T12ER11A200A10060	IR11-M10-2.36"	IR11	M10	2.36"	
T12ER11A200A10100	IR11-M10-3.94"	IR11	M10	3.94"	

SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A240A03051	IR11-SF1/8"-2"-3°	IR11	SF1/8"	2.00"	
T12ER11A240A03102	IR11-SF1/8"-4"-3°	IR11	SF1/8"	4.00"	
T12ER11A240A05051	IR11-SF3/16"-2"-3°	IR11	SF3/16"	2.00"	
T12ER11A240A05102	IR11-SF3/16"-4"-3°	IR11	SF3/16"	4.00"	
T12ER11A240A06051	IR11-SF1/4"-2"-3°	IR11	SF1/4"	2.00"	
T12ER11A240A06102	IR11-SF1/4"-4"-3°	IR11	SF1/4"	4.00"	
T12ER11A240A08051	IR11-SF5/16"-2"-3°	IR11	SF5/16"	2.00"	
T12ER11A240A08102	IR11-SF5/16"-4"-3°	IR11	SF5/16"	4.00"	
T12ER11A240A09051	IR11-SF3/8"-2"-3°	IR11	SF3/8"	2.00"	
T12ER11A240A09102	IR11-SF3/8"-4"-3°	IR11	SF3/8"	4.00"	
T12ER11A240A12051	IR11-SF1/2"-2"-3°	IR11	SF1/2"	2.00"	
T12ER11A240A12102	IR11-SF1/2"-4"-3°	IR11	SF1/2"	4.00"	

SHRINK - FIT HOLODER 3° SLIM INCH - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A250A03051	IR11-SF1/8"-2"-3° slim	IR11	SF1/8"	2.00"	
T12ER11A250A03102	IR11-SF1/8"-4"-3° slim	IR11	SF1/8"	4.00"	
T12ER11A250A05051	IR11-SF3/16"-2"-3° slim	IR11	SF3/16"	2.00"	
T12ER11A250A05102	IR11-SF3/16"-4"-3° slim	IR11	SF3/16"	4.00"	
T12ER11A250A06051	IR11-SF1/4"-2"-3° slim	IR11	SF1/4"	2.00"	
T12ER11A250A06102	IR11-SF1/4"-4"-3° slim	IR11	SF1/4"	4.00"	
T12ER11A250A08051	IR11-SF5/16"-2"-3° slim	IR11	SF5/16"	2.00"	
T12ER11A250A08102	IR11-SF5/16"-4"-3° slim	IR11	SF5/16"	4.00"	
T12ER11A250A09051	IR11-SF3/8"-2"-3° slim	IR11	SF3/8"	2.00"	
T12ER11A250A09102	IR11-SF3/8"-4"-3° slim	IR11	SF3/8"	4.00"	
T12ER11A250A12051	IR11-SF1/2"-2"-3° slim	IR11	SF1/2"	2.00"	
T12ER11A250A12100	IR11-SF1/2"-4"-3° slim	IR11	SF1/2"	4.00"	

INDEX - IR16 EXTENSION

BT - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00BT30926-16100A	BT30 IR16-100-EX	IR16	100	
T00BT40926-16100A	BT40 IR16-100-EX	IR16	100	
T00BT50926-16100A	BT50 IR16-100-EX	IR16	100	

PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-16100A	PBBT30 IR16-100-EX	IR16	100	
T00BT40928-16100A	PBBT40 IR16-100-EX	IR16	100	
T00BT50928-16100A	PBBT50 IR16-100-EX	IR16	100	

PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30929-16100A	PBT30 IR16-100-EX	IR16	100	
T00BT40929-16100A	PBT40 IR16-100-EX	IR16	100	
T00BT50929-16100A	PBT50 IR16-100-EX	IR16	100	

CAT - I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch	Qty
T00CA40926-16102A	CAT40 IR16-4"-EX	IR16	4.00"	
T00CA50926-16102A	CAT50 IR16-4"-EX	IR16	4.00"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-16102A	PBCAT40 IR16-4"-EX	IR16	4.00"	
T00CA50928-16102A	PBCAT50 IR16-4"-EX	IR16	4.00"	

PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-16102A	PCAT40 IR16-4"-EX	IR16	4.00"	
T00CA50929-16102A	PCAT50 IR16-4"-EX	IR16	4.00"	

HSK A - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HA32926-16100	HSK A32 IR16-100-EX	IR16	100	
T00HA40926-16080	HSK A40 IR16-080-EX	IR16	80	
T00HA50926-16100	HSK A50 IR16-100-EX	IR16	100	
T00HA63926-16100	HSK A63 IR16-100-EX	IR16	100	
T00HA80926-16100	HSK A80 IR16-100-EX	IR16	100	
T00HA10926-16100	HSK A100 IR16-100-EX	IR16	100	
T00HA12926-16100	HSK A125 IR16-100-EX	IR16	100	

HSK E - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HE32926-16100	HSK E32 IR16-100-EX	IR16	100	
T00HE40926-16080	HSK E40 IR16-080-EX	IR16	80	
T00HE50926-16100	HSK E50 IR16-100-EX	IR16	100	
T00HE63926-16100	HSK E63 IR16-100-EX	IR16	100	

HSK F - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HF40926-16100	HSK F40 IR16-100-EX	IR16	100	
T00HF50926-16100	HSK F50 IR16-100-EX	IR16	100	
T00HF63926-16100	HSK F63 IR16-100-EX	IR16	100	
T00HF80926-16100	HSK F80 IR16-100-EX	IR16	100	

SK - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00SK40926-16100A	SK40 IR16-100-EX	IR16	100	
T00SK50926-16100A	SK50 IR16-100-EX	IR16	100	

PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-16100A	PBSK40 IR16-100-EX	IR16	100	
T00SK50928-16100A	PBSK50 IR16-100-EX	IR16	100	

PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-16100A	PSK40 IR16-100-EX	IR16	100	
T00SK50929-16100A	PSK50 IR16-100-EX	IR16	100	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A926-11050	IR16-IR11-050-EX	IR16	IR11	50	
T12ER16A926-11100	IR16-IR11-100-EX	IR16	IR11	100	
T12ER16A926-16100	IR16-IR16-100-EX	IR16	IR16	100	
T12ER16A926-16112	IR16-IR16-112-EX	IR16	IR16	112	
T12ER16A926-16200	IR16-IR16-200-EX	IR16	IR16	200	

ER COLLET CHUCK MINI NUT METRIC - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16AM20-11060	IR16-ER11-060M	IR16	ER11M	60	1
T12ER16AM20-11100	IR16-ER11-100M	IR16	ER11M	100	
T12ER16AM20-16060	IR16-ER16-060M	IR16	ER16M	60	1
T12ER16AM20-16100	IR16-ER16-100M	IR16	ER16M	100	
T12ER16AM20-20060	IR16-ER20-060M	IR16	ER20M	60	
T12ER16AM20-20100	IR16-ER20-100M	IR16	ER20M	100	

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A020-11060	IR16-ER11-060	IR16	ER11	60	
T12ER16A020-11100	IR16-ER11-100	IR16	ER11	100	
T12ER16A020-16060	IR16-ER16-060	IR16	ER16	60	
T12ER16A020-16100	IR16-ER16-100	IR16	ER16	100	
T12ER16A020-16112	IR16-ER16-112	IR16	ER16	112	

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A926A11102	IR16-IR11-4"-EX	IR16	IR11	4.00"	
T12ER16A926A16102	IR16-IR16-4"-EX	IR16	IR16	4.00"	
T12ER16A926A16127	IR16-IR16-5"-EX	IR16	IR16	5.00"	
T12ER16A926A16203	IR16-IR16-8"-EX	IR16	IR16	8.00"	

ER COLLET CHUCK MINI NUT INCH - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16AM20A11051	IR16-ER11-2.0"M	IR16	ER11M	2.00"	1
T12ER16AM20A11102	IR16-ER11-4.0"M	IR16	ER11M	4.00"	
T12ER16AM20A16051	IR16-ER16-2.0"M	IR16	ER16M	2.00"	1
T12ER16AM20A16102	IR16-ER16-4.0"M	IR16	ER16M	4.00"	
T12ER16AM20A20051	IR16-ER20-2.0"M	IR16	ER20M	2.00"	
T12ER16AM20A20102	IR16-ER20-4.0"M	IR16	ER20M	4.00"	

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A020A11051	IR16-ER11-2.0"	IR16	ER11	2.00"	
T12ER16A020A11102	IR16-ER11-4.0"	IR16	ER11	4.00"	
T12ER16A020A16051	IR16-ER16-2.0"	IR16	ER16	2.00"	
T12ER16A020A16102	IR16-ER16-4.0"	IR16	ER16	4.00"	

INDEX - IR16 EXTENSION

END MILL HOLDER COOLANT SLOT METRIC - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A030-06060	IR16-EM06-060J	IR16	EM06	60	
T12ER16A030-06100	IR16-EM06-100J	IR16	EM06	100	
T12ER16A030-08060	IR16-EM08-060J	IR16	EM08	60	
T12ER16A030-08100	IR16-EM08-100J	IR16	EM08	100	

END MILL HOLDER METRIC - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A040-06060	IR16-EM06-060	IR16	EM06	60	
T12ER16A040-06100	IR16-EM06-100	IR16	EM06	100	
T12ER16A040-08060	IR16-EM08-060	IR16	EM08	60	
T12ER16A040-08100	IR16-EM08-100	IR16	EM08	100	

END MILL HOLDER WHISTLE METRIC - 050

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A050-06060	IR16-EM06-060W	IR16	EM06	60	
T12ER16A050-06100	IR16-EM06-100W	IR16	EM06	100	
T12ER16A050-08060	IR16-EM08-060W	IR16	EM08	60	
T12ER16A050-08100	IR16-EM08-100W	IR16	EM08	100	

SCREW-IN HOLDER METRIC - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A200-10060	IR16-M10-060	IR16	M10	60	
T12ER16A200-10100	IR16-M10-100	IR16	M10	100	
T12ER16A200-12060	IR16-M12-060	IR16	M12	60	
T12ER16A200-12100	IR16-M12-100	IR16	M12	100	

SLIM COLLET CHUCK METRIC - 210

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A210-06100	IR16-HC06-100	IR16	HC06	100	
T12ER16A210-10100	IR16-HC10-100	IR16	HC10	100	

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A220-06060	IR16-SF06-060-4.5°	IR16	SF06	60	
T12ER16A220-06100	IR16-SF06-100-4.5°	IR16	SF06	100	
T12ER16A220-08060	IR16-SF08-060-4.5°	IR16	SF08	60	
T12ER16A220-08100	IR16-SF08-100-4.5°	IR16	SF08	100	
T12ER16A220-10060	IR16-SF10-060-4.5°	IR16	SF10	60	
T12ER16A220-10100	IR16-SF10-100-4.5°	IR16	SF10	100	
T12ER16A220-12060	IR16-SF12-060-4.5°	IR16	SF12	60	
T12ER16A220-12100	IR16-SF12-100-4.5°	IR16	SF12	100	

SHRINK - FIT HOLODER 4.5° SLIM METRIC - 230

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A230-10060	IR16-SF10-060-4.5° slim	IR16	SF10	60	
T12ER16A230-10100	IR16-SF10-100-4.5° slim	IR16	SF10	100	
T12ER16A230-12060	IR16-SF12-060-4.5° slim	IR16	SF12	60	
T12ER16A230-12100	IR16-SF12-100-4.5° slim	IR16	SF12	100	
T12ER16A230-16060	IR16-SF16-060-4.5° slim	IR16	SF16	60	
T12ER16A230-16100	IR16-SF16-100-4.5° slim	IR16	SF16	100	

SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A240-12100	IR16-SF12-100-3°	IR16	SF12	100	
T12ER16A240-16060	IR16-SF16-060-3°	IR16	SF16	60	
T12ER16A240-16100	IR16-SF16-100-3°	IR16	SF16	100	

END MILL HOLDER COOLANT SLOT INCH - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A030A06051	IR16-EM1/4"-2.0"J	IR16	EM1/4"	2.00"	
T12ER16A030A06102	IR16-EM1/4"-4.0"J	IR16	EM1/4"	4.00"	
T12ER16A030A08051	IR16-EM5/16"-2.0"J	IR16	EM5/16"	2.00"	
T12ER16A030A08102	IR16-EM5/16"-4.0"J	IR16	EM5/16"	4.00"	
T12ER16A030A09051	IR16-EM3/8"-2.0"J	IR16	EM3/8"	2.00"	
T12ER16A030A09102	IR16-EM3/8"-4.0"J	IR16	EM3/8"	4.00"	

END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A040A06051	IR16-EM1/4"-2.0"	IR16	EM1/4"	2.00"	
T12ER16A040A06102	IR16-EM1/4"-4.0"	IR16	EM1/4"	4.00"	
T12ER16A040A08051	IR16-EM5/16"-2.0"	IR16	EM5/16"	2.00"	
T12ER16A040A08102	IR16-EM5/16"-4.0"	IR16	EM5/16"	4.00"	
T12ER16A040A09051	IR16-EM3/8"-2.0"	IR16	EM3/8"	2.00"	
T12ER16A040A09102	IR16-EM3/8"-4.0"	IR16	EM3/8"	4.00"	

SCREW-IN HOLDER INCH - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A200A10060	IR16-M10-2.36"	IR16	M10	2.36"	
T12ER16A200A10100	IR16-M10-3.94"	IR16	M10	3.94"	
T12ER16A200A12060	IR16-M12-2.36"	IR16	M12	2.36"	
T12ER16A200A12100	IR16-M12-3.94"	IR16	M12	3.94"	

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A220A06051	IR16-SF1/4"-2"-4.5°	IR16	SF1/4"	2.00"	
T12ER16A220A06060	IR16-SF1/4"-2.36"-4.5°	IR16	SF1/4"	2.36"	
T12ER16A220A06102	IR16-SF1/4"-4"-4.5°	IR16	SF1/4"	4.00"	
T12ER16A220A08051	IR16-SF5/16"-2"-4.5°	IR16	SF5/16"	2.00"	
T12ER16A220A08060	IR16-SF5/16"-2.36"-4.5°	IR16	SF5/16"	2.36"	
T12ER16A220A08102	IR16-SF5/16"-4"-4.5°	IR16	SF5/16"	4.00"	
T12ER16A220A09051	IR16-SF3/8"-2"-4.5°	IR16	SF3/8"	2.00"	
T12ER16A220A09060	IR16-SF3/8"-2.36"-4.5°	IR16	SF3/8"	2.36"	
T12ER16A220A09102	IR16-SF3/8"-4"-4.5°	IR16	SF3/8"	4.00"	
T12ER16A220A12051	IR16-SF1/2"-2"-4.5°	IR16	SF1/2"	2.00"	
T12ER16A220A12060	IR16-SF1/2"-2.36"-4.5°	IR16	SF1/2"	2.36"	
T12ER16A220A12102	IR16-SF1/2"-4"-4.5°	IR16	SF1/2"	4.00"	

SHRINK - FIT HOLODER 4.5° SLIM INCH - 230

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A230A09060	IR16-SF3/8"-2.36"-4.5° slim	IR16	SF3/8"	2.36"	
T12ER16A230A09102	IR16-SF3/8"-4"-4.5° slim	IR16	SF3/8"	4.00"	
T12ER16A230A12060	IR16-SF1/2"-2.36"-4.5° slim	IR16	SF1/2"	2.36"	
T12ER16A230A12102	IR16-SF1/2"-4"-4.5° slim	IR16	SF1/2"	4.00"	
T12ER16A230A16060	IR16-SF5/8"-2.36"-4.5° slim	IR16	SF5/8"	2.36"	
T12ER16A230A16102	IR16-SF5/8"-4"-4.5° slim	IR16	SF5/8"	4.00"	

SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A240A12102	IR16-SF1/2"-4"-3°	IR16	SF1/2"	4.00"	
T12ER16A240A16051	IR16-SF5/8"-2"-3°	IR16	SF5/8"	2.00"	
T12ER16A240A16102	IR16-SF5/8"-4"-3°	IR16	SF5/8"	4.00"	

INDEX - IR20 EXTENSION

BT - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00BT30926-20100A	BT30 IR20-100-EX	IR20	100	
T00BT40926-20100A	BT40 IR20-100-EX	IR20	100	
T00BT50926-20100A	BT50 IR20-100-EX	IR20	100	

PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-20100A	PBBT30 IR20-100-EX	IR20	100	
T00BT40928-20100A	PBBT40 IR20-100-EX	IR20	100	
T00BT50928-20100A	PBBT50 IR20-100-EX	IR20	100	

PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30929-20100A	PBT30 IR20-100-EX	IR20	100	
T00BT40929-20100A	PBT40 IR20-100-EX	IR20	100	
T00BT50929-20100A	PBT50 IR20-100-EX	IR20	100	

CAT - I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch	Qty
T00CA40926-20102A	CAT40 IR20-4"-EX	IR20	4.00"	
T00CA50926-20102A	CAT50 IR20-4"-EX	IR20	4.00"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-20102A	PBCAT40 IR20-4"-EX	IR20	4.00"	
T00CA50928-20102A	PBCAT50 IR20-4"-EX	IR20	4.00"	

PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-20102A	PCAT40 IR20-4"-EX	IR20	4.00"	
T00CA50929-20102A	PCAT50 IR20-4"-EX	IR20	4.00"	

HSK A - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HA40926-20080	HSK A40 IR20-080-EX	IR20	80	
T00HA50926-20100	HSK A50 IR20-100-EX	IR20	100	
T00HA63926-20100	HSK A63 IR20-100-EX	IR20	100	
T00HA80926-20100	HSK A80 IR20-100-EX	IR20	100	
T00HA10926-20100	HSK A100 IR20-100-EX	IR20	100	
T00HA12926-20100	HSK A125 IR20-100-EX	IR20	100	

HSK E - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HE40926-20080	HSK E40 IR20-080-EX	IR20	80	
T00HE50926-20100	HSK E50 IR20-100-EX	IR20	100	
T00HE63926-20100	HSK E63 IR20-100-EX	IR20	100	

HSK F - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HF40926-20100	HSK F40 IR20-100-EX	IR20	100	
T00HF50926-20100	HSK F50 IR20-100-EX	IR20	100	
T00HF63926-20100	HSK F63 IR20-100-EX	IR20	100	
T00HF80926-20100	HSK F80 IR20-100-EX	IR20	100	

SK - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00SK40926-20100A	SK40 IR20-100-EX	IR20	100	
T00SK50926-20100A	SK50 IR20-100-EX	IR20	100	

PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-20100A	PBSK40 IR20-100-EX	IR20	100	
T00SK50928-20100A	PBSK50 IR20-100-EX	IR20	100	

PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-20100A	PSK40 IR20-100-EX	IR20	100	
T00SK50929-20100A	PSK50 IR20-100-EX	IR20	100	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A926-16050	IR20-IR16-050-EX	IR20	IR16	50	
T12ER20A926-16100	IR20-IR16-100-EX	IR20	IR16	100	
T12ER20A926-16112	IR20-IR16-112-EX	IR20	IR16	112	
T12ER20A926-20100	IR20-IR20-100-EX	IR20	IR20	100	
T12ER20A926-20112	IR20-IR20-112-EX	IR20	IR20	112	
T12ER20A926-20200	IR20-IR20-200-EX	IR20	IR20	200	

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A020-16100	IR20-ER16-100	IR20	ER16	100	
T12ER20A020-16112	IR20-ER16-112	IR20	ER16	112	
T12ER20A020-20060	IR20-ER20-060	IR20	ER20	60	
T12ER20A020-20100	IR20-ER20-100	IR20	ER20	100	
T12ER20A020-20112	IR20-ER20-112	IR20	ER20	112	

END MILL HOLDER COOLANT SLOT METRIC - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A030-10060	IR20-EM10-060J	IR20	EM10	60	
T12ER20A030-10100	IR20-EM10-100J	IR20	EM10	100	

END MILL HOLDER METRIC - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A040-08112	IR20-EM08-112	IR20	EM08	112	
T12ER20A040-10060	IR20-EM10-060	IR20	EM10	60	
T12ER20A040-10100	IR20-EM10-100	IR20	EM10	100	

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A926A20102	IR20-IR20-4"-EX	IR20	IR20	4.00"	
T12ER20A926A20127	IR20-IR20-5"-EX	IR20	IR20	5.00"	
T12ER20A926A20203	IR20-IR20-8"-EX	IR20	IR20	8.00"	

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A020A20051	IR20-ER20-2.0"	IR20	ER20	2.00"	
T12ER20A020A20102	IR20-ER20-4.0"	IR20	ER20	4.00"	

END MILL HOLDER COOLANT SLOT INCH - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A030A12051	IR20-EM1/2"-2.0"J	IR20	EM1/2"	2.00"	
T12ER20A030A12102	IR20-EM1/2"-4.0"J	IR20	EM1/2"	4.00"	

END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A040A12051	IR20-EM1/2"-2.0"	IR20	EM1/2"	2.00"	
T12ER20A040A12102	IR20-EM1/2"-4.0"	IR20	EM1/2"	4.00"	

INDEX - IR20 EXTENSION

END MILL HOLDER WHISTLE METRIC - 050

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A050-10060	IR20-EM10-060W	IR20	EM10	60	
T12ER20A050-10100	IR20-EM10-100W	IR20	EM10	100	

SHELL MILLING HOLDER METRIC - 120

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A120-16060	IR20-SM16-060	IR20	SM16	60	
T12ER20A120-16100	IR20-SM16-100	IR20	SM16	100	

SHELL MILLING HOLDER COOLANT SLOT METRIC - 130

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A130-16060	IR20-SM16-060J	IR20	SM16	60	
T12ER20A130-16100	IR20-SM16-100J	IR20	SM16	100	

SCREW-IN HOLDER METRIC - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A200-10060	IR20-M10-060	IR20	M10	60	
T12ER20A200-10100	IR20-M10-100	IR20	M10	100	
T12ER20A200-10112	IR20-M10-112	IR20	M10	112	
T12ER20A200-12060	IR20-M12-060	IR20	M12	60	
T12ER20A200-12100	IR20-M12-100	IR20	M12	100	
T12ER20A200-16060	IR20-M16-060	IR20	M16	60	
T12ER20A200-16100	IR20-M16-100	IR20	M16	100	

SLIM COLLET CHUCK METRIC - 210

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A210-16100	IR20-HC16-100	IR20	HC16	100	

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A220-14060	IR20-SF14-060-4.5°	IR20	SF14	60	
T12ER20A220-14100	IR20-SF14-100-4.5°	IR20	SF14	100	
T12ER20A220-16060	IR20-SF16-060-4.5°	IR20	SF16	60	
T12ER20A220-16100	IR20-SF16-100-4.5°	IR20	SF16	100	

SHRINK - FIT HOLODER 4.5° SLIM METRIC - 230

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A230-20060	IR20-SF20-060-4.5° slim	IR20	SF20	60	
T12ER20A230-20100	IR20-SF20-100-4.5° slim	IR20	SF20	100	

SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A240-16100	IR20-SF16-100-3°	IR20	SF16	100	
T12ER20A240-20060	IR20-SF20-060-3°	IR20	SF20	60	
T12ER20A240-20100	IR20-SF20-100-3°	IR20	SF20	100	

SCREW-IN HOLDER INCH - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A200A10060	IR20-M10-2.36"	IR20	M10	2.36"	
T12ER20A200A10100	IR20-M10-3.94"	IR20	M10	3.94"	
T12ER20A200A10112	IR20-M10-4.41"	IR20	M10	4.41"	
T12ER20A200A12060	IR20-M12-2.36"	IR20	M12	2.36"	
T12ER20A200A12100	IR20-M12-3.94"	IR20	M12	3.94"	
T12ER20A200A16060	IR20-M16-2.36"	IR20	M16	2.36"	
T12ER20A200A16100	IR20-M16-3.94"	IR20	M16	3.94"	

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A220A16051	IR20-SF5/8"-2"-4.5°	IR20	SF5/8"	2.00"	
T12ER20A220A16102	IR20-SF5/8"-4"-4.5°	IR20	SF5/8"	4.00"	

SHRINK - FIT HOLODER 4.5° SLIM INCH - 230

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A230A19051	IR20-SF3/4"-2"-4.5° slim	IR20	SF3/4"	2.00"	
T12ER20A230A19102	IR20-SF3/4"-4"-4.5° slim	IR20	SF3/4"	4.00"	

SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A240A16102	IR20-SF5/8"-4"-3°	IR20	SF5/8"	4.00"	
T12ER20A240A19051	IR20-SF3/4"-2"-3°	IR20	SF3/4"	2.00"	
T12ER20A240A19102	IR20-SF3/4"-4"-3°	IR20	SF3/4"	4.00"	

INDEX - IR25 EXTENSION
BT - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00BT30926-25100A	BT30 IR25-100-EX	IR25	100	
T00BT40926-25100A	BT40 IR25-100-EX	IR25	100	
T00BT50926-25110A	BT50 IR25-110-EX	IR25	110	

PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-25100A	PBBT30 IR25-100-EX	IR25	100	
T00BT40928-25100A	PBBT40 IR25-100-EX	IR25	100	
T00BT50928-25110A	PBBT50 IR25-110-EX	IR25	110	

PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30929-25100A	PBT30 IR25-100-EX	IR25	100	
T00BT40929-25100A	PBT40 IR25-100-EX	IR25	100	
T00BT50929-25110A	PBT50 IR25-110-EX	IR25	110	

CAT - I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch	Qty
T00CA40926-25102A	CAT40 IR25-4"-EX	IR25	4.00"	
T00CA50926-25102A	CAT50 IR25-4"-EX	IR25	4.00"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-25102A	PBCAT40 IR25-4"-EX	IR25	4.00"	
T00CA50928-25102A	PBCAT50 IR25-4"-EX	IR25	4.00"	

PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-25102A	PCAT40 IR25-4"-EX	IR25	4.00"	
T00CA50929-25102A	PCAT50 IR25-4"-EX	IR25	4.00"	

HSK A - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HA50926-25100	HSK A50 IR25-100-EX	IR25	80	
T00HA63926-25100	HSK A63 IR25-100-EX	IR25	100	
T00HA80926-25100	HSK A80 IR25-100-EX	IR25	100	
T00HA10926-25100	HSK A100 IR25-100-EX	IR25	100	
T00HA12926-25100	HSK A125 IR25-100-EX	IR25	100	

HSK E - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HE50926-25100	HSK E50 IR25-100-EX	IR25	100	
T00HE63926-25100	HSK E63 IR25-100-EX	IR25	100	

HSK F - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HF50926-25100	HSK F50 IR25-100-EX	IR25	100	
T00HF63926-25100	HSK F63 IR25-100-EX	IR25	100	
T00HF80926-25100	HSK F80 IR25-100-EX	IR25	100	

SK - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00SK40926-25100A	SK40 IR25-100-EX	IR25	100	
T00SK50926-25100A	SK50 IR25-100-EX	IR25	100	

PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-25100A	PBSK40 IR25-100-EX	IR25	100	
T00SK50928-25100A	PBSK50 IR25-100-EX	IR25	100	

PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-25100A	PSK40 IR25-100-EX	IR25	100	
T00SK50929-25100A	PSK50 IR25-100-EX	IR25	100	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A926-16050	IR25-IR16-050-EX	IR25	IR16	50	
T12ER25A926-16100	IR25-IR16-100-EX	IR25	IR16	100	
T12ER25A926-16112	IR25-IR16-112-EX	IR25	IR16	112	
T12ER25A926-20050	IR25-IR20-050-EX	IR25	IR20	50	
T12ER25A926-20100	IR25-IR20-100-EX	IR25	IR20	100	
T12ER25A926-20112	IR25-IR20-112-EX	IR25	IR20	112	
T12ER25A926-25100	IR25-IR25-100-EX	IR25	IR25	100	
T12ER25A926-25112	IR25-IR25-112-EX	IR25	IR25	112	
T12ER25A926-25200	IR25-IR25-200-EX	IR25	IR25	200	

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A020-16100	IR25-ER16-100	IR25	ER16	100	
T12ER25A020-16112	IR25-ER16-112	IR25	ER16	112	
T12ER25A020-20100	IR25-ER20-100	IR25	ER20	100	
T12ER25A020-25060	IR25-ER25-060	IR25	ER25	60	
T12ER25A020-25100	IR25-ER25-100	IR25	ER25	100	

END MILL HOLDER COOLANT SLOT METRIC - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A030-12060	IR25-EM12-060J	IR25	EM12	60	
T12ER25A030-12100	IR25-EM12-100J	IR25	EM12	100	
T12ER25A030-16060	IR25-EM16-060J	IR25	EM16	60	
T12ER25A030-16100	IR25-EM16-100J	IR25	EM16	100	

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A926A25102	IR25-IR25-4"-EX	IR25	IR25	4.00"	
T12ER25A926A25127	IR25-IR25-5"-EX	IR25	IR25	5.00"	
T12ER25A926A25203	IR25-IR25-8"-EX	IR25	IR25	8.00"	

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A020A25051	IR25-ER25-2.0"	IR25	ER25	2.00"	
T12ER25A020A25102	IR25-ER25-4.0"	IR25	ER25	4.00"	

END MILL HOLDER COOLANT SLOT INCH - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A030A16051	IR25-EM5/8"-2.0"J	IR25	EM5/8"	2.00"	
T12ER25A030A16102	IR25-EM5/8"-4.0"J	IR25	EM5/8"	4.00"	
T12ER25A030A19051	IR25-EM3/4"-2.0"J	IR25	EM3/4"	2.00"	
T12ER25A030A19102	IR25-EM3/4"-4.0"J	IR25	EM3/4"	4.00"	

INDEX - IR25 EXTENSION

END MILL HOLDER METRIC - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A040-12060	IR25-EM12-060	IR25	EM12	60	
T12ER25A040-12100	IR25-EM12-100	IR25	EM12	100	
T12ER25A040-14060	IR25-EM14-060	IR25	EM14	60	
T12ER25A040-14100	IR25-EM14-100	IR25	EM14	100	
T12ER25A040-16060	IR25-EM16-060	IR25	EM16	60	
T12ER25A040-16100	IR25-EM16-100	IR25	EM16	100	

END MILL HOLDER WHISTLE METRIC - 050

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A050-12060	IR25-EM12-060W	IR25	EM12	60	
T12ER25A050-12100	IR25-EM12-100W	IR25	EM12	100	
T12ER25A050-14060	IR25-EM14-060W	IR25	EM14	60	
T12ER25A050-14100	IR25-EM14-100W	IR25	EM14	100	
T12ER25A050-16060	IR25-EM16-060W	IR25	EM16	60	
T12ER25A050-16100	IR25-EM16-100W	IR25	EM16	100	

SHELL MILLING HOLDER METRIC - 120

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A120-16060	IR25-SM16-060	IR25	SM16	60	
T12ER25A120-16100	IR25-SM16-100	IR25	SM16	100	

SHELL MILLING HOLDER COOLANT SLOT METRIC - 130

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A130-16060	IR25-SM16-060J	IR25	SM16	60	
T12ER25A130-16100	IR25-SM16-100J	IR25	SM16	100	

SCREW-IN HOLDER METRIC - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A200-12112	IR25-M12-112	IR25	M12	112	
T12ER25A200-16112	IR25-M16-112	IR25	M16	112	

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A220-18060	IR25-SF18-060-4.5°	IR25	SF18	60	
T12ER25A220-18100	IR25-SF18-100-4.5°	IR25	SF18	100	
T12ER25A220-20060	IR25-SF20-060-4.5°	IR25	SF20	60	
T12ER25A220-20100	IR25-SF20-100-4.5°	IR25	SF20	100	

SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A240-25060	IR25-SF25-060-3°	IR25	SF25	60	
T12ER25A240-25100	IR25-SF25-100-3°	IR25	SF25	100	

END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A040A16051	IR25-EM5/8"-2.0"	IR25	EM5/8"	2.00"	
T12ER25A040A16102	IR25-EM5/8"-4.0"	IR25	EM5/8"	4.00"	
T12ER25A040A19051	IR25-EM3/4"-2.0"	IR25	EM3/4"	2.00"	
T12ER25A040A19102	IR25-EM3/4"-4.0"	IR25	EM3/4"	4.00"	

SHELL MILLING HOLDER INCH - 120

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A120A19063	IR25-SM3/4"-2.5"	IR25	SM 3/4"	2.50"	
T12ER25A120A19102	IR25-SM3/4"-4"	IR25	SM 3/4"	4.00"	

SHELL MILLING HOLDER COOLANT SLOT INCH - 130

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A130A19063	IR25-SM3/4"-2.5"J	IR25	SM 3/4"	2.50"	
T12ER25A130A19102	IR25-SM3/4"-4"J	IR25	SM 3/4"	4.00"	

SCREW-IN HOLDER INCH - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A200A12112	IR25-M12-4.41"	IR25	M12	4.41"	
T12ER25A200A16112	IR25-M16-4.41"	IR25	M16	4.41"	

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A220A19051	IR25-SF3/4"-2"-4.5°	IR25	SF3/4"	2.00"	
T12ER25A220A19102	IR25-SF3/4"-4"-4.5°	IR25	SF3/4"	4.00"	

SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A240A25051	IR25-SF1"-2"-3°	IR25	SF1"	2.00"	
T12ER25A240A25102	IR25-SF1"-4"-3°	IR25	SF1"	4.00"	

INDEX - IR32 EXTENSION

BT - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00BT30926-32100A	BT30 IR32-100-EX	IR32	100	
T00BT40926-32100A	BT40 IR32-100-EX	IR32	100	
T00BT50926-32110A	BT50 IR32-110-EX	IR32	110	

PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-32100A	PBBT30 IR32-100-EX	IR32	100	
T00BT40928-32100A	PBBT40 IR32-100-EX	IR32	100	
T00BT50928-32110A	PBBT50 IR32-110-EX	IR32	110	

PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30929-32100A	PBT30 IR32-100-EX	IR32	100	
T00BT40929-32100A	PBT40 IR32-100-EX	IR32	100	
T00BT50929-32110A	PBT50 IR32-110-EX	IR32	110	

CAT - I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch	Qty
T00CA40926-32102A	CAT40 IR32-4"-EX	IR32	4.00"	
T00CA50926-32102A	CAT50 IR32-4"-EX	IR32	4.00"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-32102A	PBCAT40 IR32-4"-EX	IR32	4.00"	
T00CA50928-32102A	PBCAT50 IR32-4"-EX	IR32	4.00"	

PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-32102A	PCAT40 IR32-4"-EX	IR32	4.00"	
T00CA50929-32102A	PCAT50 IR32-4"-EX	IR32	4.00"	

HSK A - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HA50926-32110	HSK A50 IR32-110-EX	IR32	110	
T00HA63926-32110	HSK A63 IR32-110-EX	IR32	110	
T00HA80926-32110	HSK A80 IR32-110-EX	IR32	110	
T00HA10926-32110	HSK A100 IR32-110-EX	IR32	110	
T00HA12926-32110	HSK A125 IR32-110-EX	IR32	110	

HSK E - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HE50926-32120	HSK E50 IR32-120-EX	IR32	120	
T00HE63926-32110	HSK E63 IR32-110-EX	IR32	110	

HSK F - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HF50926-32110	HSK F50 IR32-110-EX	IR32	110	
T00HF63926-32100	HSK F63 IR32-100-EX	IR32	100	
T00HF80926-32100	HSK F80 IR32-100-EX	IR32	100	

SK - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00SK40926-32100A	SK40 IR32-100-EX	IR32	100	
T00SK50926-32100A	SK50 IR32-100-EX	IR32	100	

PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-20100A	PBSK40 IR20-100-EX	IR20	100	
T00SK50928-20100A	PBSK50 IR20-100-EX	IR20	100	

PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-20100A	PSK40 IR20-100-EX	IR20	100	
T00SK50929-20100A	PSK50 IR20-100-EX	IR20	100	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER32A926-16050	IR32-IR16-050-EX	IR32	IR16	50	
T12ER32A926-16100	IR32-IR16-100-EX	IR32	IR16	100	
T12ER32A926-20050	IR32-IR20-050-EX	IR32	IR20	50	
T12ER32A926-20100	IR32-IR20-100-EX	IR32	IR20	100	
T12ER32A926-25050	IR32-IR25-050-EX	IR32	IR25	50	
T12ER32A926-25100	IR32-IR25-100-EX	IR32	IR25	100	
T12ER32A926-25112	IR32-IR25-112-EX	IR32	IR25	112	
T12ER32A926-32100	IR32-IR32-100-EX	IR32	IR32	100	
T12ER32A926-32200	IR32-IR32-200-EX	IR32	IR32	200	

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER32A020-16100	IR32-ER16-100	IR32	ER16	100	
T12ER32A020-16112	IR32-ER16-112	IR32	ER16	112	
T12ER32A020-20100	IR32-ER20-100	IR32	ER20	100	
T12ER32A020-20112	IR32-ER20-112	IR32	ER20	112	
T12ER32A020-25100	IR32-ER25-100	IR32	ER25	100	
T12ER32A020-25112	IR32-ER25-112	IR32	ER25	112	
T12ER32A020-32060	IR32-ER32-060	IR32	ER32	60	
T12ER32A020-32100	IR32-ER32-100	IR32	ER32	100	
T12ER32A020-32112	IR32-ER32-112	IR32	ER32	112	

END MILL HOLDER COOLANT SLOT METRIC - 030

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER32A030-16060	IR32-EM16-060J	IR32	EM16	60	
T12ER32A030-16100	IR32-EM16-100J	IR32	EM16	100	
T12ER32A030-20060	IR32-EM20-060J	IR32	EM20	60	
T12ER32A030-20100	IR32-EM20-100J	IR32	EM20	100	

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER32A926A32102	IR32-IR32-4"-EX	IR32	IR32	4.00"	
T12ER32A926A32127	IR32-IR32-5"-EX	IR32	IR32	5.00"	
T12ER32A926A32203	IR32-IR32-8"-EX	IR32	IR32	8.00"	

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER32A020A32051	IR32-ER32-2.0"	IR32	ER32	2.00"	
T12ER32A020A32102	IR32-ER32-4.0"	IR32	ER32	4.00"	

END MILL HOLDER COOLANT SLOT INCH - 030

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER32A030A22051	IR32-EM7/8"-2.0"J	IR32	EM7/8"	2.00"	
T12ER32A030A22102	IR32-EM7/8"-4.0"J	IR32	EM7/8"	4.00"	

INDEX - IR32 EXTENSION

END MILL HOLDER **METRIC - 040**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A040-16060	IR32-EM16-060	IR32	EM16	60	
T12ER32A040-16100	IR32-EM16-100	IR32	EM16	100	
T12ER32A040-18060	IR32-EM18-060	IR32	EM18	60	
T12ER32A040-18100	IR32-EM18-100	IR32	EM18	100	
T12ER32A040-20060	IR32-EM20-060	IR32	EM20	60	
T12ER32A040-20100	IR32-EM20-100	IR32	EM20	100	

END MILL HOLDER **WHISTLE METRIC - 050**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A050-16060	IR32-EM16-060W	IR32	EM16	60	
T12ER32A050-16100	IR32-EM16-100W	IR32	EM16	100	
T12ER32A050-18060	IR32-EM18-060W	IR32	EM18	60	
T12ER32A050-18100	IR32-EM18-100W	IR32	EM18	100	
T12ER32A050-20060	IR32-EM20-060W	IR32	EM20	60	
T12ER32A050-20100	IR32-EM20-100W	IR32	EM20	100	

END MILL HOLDER **INCH - 040**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER32A040A22051	IR32-EM7/8"-2.0"	IR32	EM7/8"	2.00"	
T12ER32A040A22102	IR32-EM7/8"-4.0"	IR32	EM7/8"	4.00"	

SHELL MILLING HOLDER **METRIC - 120**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A120-22060	IR32-SM22-060	IR32	SM22	60	
T12ER32A120-22096	IR32-SM22-096	IR32	SM22	96	
T12ER32A120-22100	IR32-SM22-100	IR32	SM22	100	
T12ER32A120-27060	IR32-SM27-060	IR32	SM27	60	
T12ER32A120-27100	IR32-SM27-100	IR32	SM27	100	

SHELL MILLING HOLDER **COOLANT SLOT METRIC - 130**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A130-22060	IR32-SM22-060J	IR32	SM22	60	
T12ER32A130-22100	IR32-SM22-100J	IR32	SM22	100	
T12ER32A130-27060	IR32-SM27-060J	IR32	SM27	60	
T12ER32A130-27100	IR32-SM27-100J	IR32	SM27	100	

SHRINK - FIT HOLODER **4.5° METRIC - 220**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A220-25060	IR32-SF25-060-4.5°	IR32	SF25	60	
T12ER32A220-25100	IR32-SF25-100-4.5°	IR32	SF25	100	
T12ER32A220-32060	IR32-SF32-060-4.5°	IR32	SF32	60	
T12ER32A220-32100	IR32-SF32-100-4.5°	IR32	SF32	100	

SHELL MILLING HOLDER **INCH - 120**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER32A120A25063	IR32-SM1"-2.5"	IR32	SM1"	2.50"	
T12ER32A120A25102	IR32-SM1"-4"	IR32	SM1"	4.00"	

SHELL MILLING HOLDER **COOLANT SLOT INCH - 130**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER32A130A25063	IR32-SM1"-2.5"J	IR32	SM1"	2.50"	
T12ER32A130A25102	IR32-SM1"-4"J	IR32	SM1"	4.00"	

SHRINK - FIT HOLODER **4.5° INCH - 220**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER32A220A25051	IR32-SF1"-2"-4.5°	IR32	SF1"	2.00"	
T12ER32A220A25102	IR32-SF1"-4"-4.5°	IR32	SF1"	4.00"	
T12ER32A220A32051	IR32-SF1 1/4"-2"-4.5°	IR32	SF1 1/4"	2.00"	
T12ER32A220A32102	IR32-SF1 1/4"-4"-4.5°	IR32	SF1 1/4"	4.00"	

INDEX - IR40 EXTENSION

BT SHANK I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00BT40926-40100A	BT40 IR40-100-EX	IR40	100	
T00BT50926-40120A	BT50 IR40-120-EX	IR40	120	

PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-40100A	PBBT30 IR40-100-EX	IR40	100	
T00BT40928-32120A	PBBT40 IR40-120-EX	IR40	120	

PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30929-40100A	PBT30 IR40-100-EX	IR40	100	
T00BT40929-40120A	PBT40 IR40-120-EX	IR40	120	

HSK A SHANK I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HA63926-40120	HSK A63 IR40-120-EX	IR40	120	
T00HA80926-40120	HSK A80 IR40-120-EX	IR40	120	
T00HA10926-40120	HSK A100 IR40-120-EX	IR40	120	
T00HA10926-42120	HSK A100 IR42-120-EX	IR42	120	
T00HA12926-40120	HSK A125 IR40-120-EX	IR40	120	
T00HA12926-42120	HSK A125 IR42-120-EX	IR42	120	

HSK F SHANK I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HF63926-40120	HSK F63 IR40-120-EX	IR40	120	
T00HF80926-40100	HSK F80 IR40-100-EX	IR40	100	

CAT SHANK I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch	Qty
T00CA40926-40120A	CAT40 IR40-4.72"-EX	IR40	4.72"	
T00CA50926-40105A	CAT50 IR40-4.13"-EX	IR40	4.13"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-40120A	PBCAT40 IR40-4.72"-EX	IR40	4.72"	
T00CA50928-40105A	PBCAT50 IR40-4.13"-EX	IR40	4.13"	

PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-40120A	PCAT40 IR40-4.72"-EX	IR40	4.72"	
T00CA50929-40105A	PCAT50 IR40-4.13"-EX	IR40	4.13"	

SK SHANK I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00SK40926-40120A	SK40 IR40-120-EX	IR40	120	
T00SK50926-40105A	SK50 IR40-105-EX	IR40	105	

PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-40120A	PBSK40 IR40-120-EX	IR40	120	
T00SK50928-40105A	PBSK50 IR40-105-EX	IR40	105	

PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-40120A	PSK40 IR40-120-EX	IR40	120	
T00SK50929-40105A	PSK50 IR40-105-EX	IR40	105	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A926-25100	IR40-IR25-100-EX	IR40	IR25	100	
T12ER40A926-25112	IR40-IR25-112-EX	IR40	IR25	112	
T12ER40A926-32100	IR40-IR32-100-EX	IR40	IR32	100	
T12ER40A926-32112	IR40-IR32-112-EX	IR40	IR32	112	
T12ER40A926-40100	IR40-IR40-100-EX	IR40	IR40	100	
T12ER40A926-40112	IR40-IR40-112-EX	IR40	IR40	112	
T12ER40A926-41100	IR40-IR41-100-EX	IR40	IR41	100	
T12ER40A926-42100	IR40-IR42-100-EX	IR40	IR42	100	
T12ER41A926-41100	IR41-IR41-100-EX	IR41	IR41	100	
T12ER41A926-42100	IR41-IR42-100-EX	IR41	IR42	100	
T12ER42A926-42100	IR42-IR42-100-EX	IR42	IR42	100	

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A020-25100	IR40-ER25-100	IR40	ER25	100	
T12ER40A020-25112	IR40-ER25-112	IR40	ER25	112	
T12ER40A020-32100	IR40-ER32-100	IR40	ER32	100	
T12ER40A020-32112	IR40-ER32-112	IR40	ER32	112	
T12ER40A020-40060	IR40-ER40-060	IR40	ER40	60	
T12ER40A020-40100	IR40-ER40-100	IR40	ER40	100	
T12ER40A020-40112	IR40-ER40-112	IR40	ER40	112	

END MILL HOLDER COOLANT SLOT METRIC - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A030-20100	IR40-EM20-100J	IR40	EM20	100	
T12ER40A030-25060	IR40-EM25-060J	IR40	EM25	60	
T12ER40A030-25100	IR40-EM25-100J	IR40	EM25	100	
T12ER41A030-32060	IR41-EM32-060J	IR41	EM32	60	
T12ER41A030-32100	IR41-EM32-100J	IR41	EM32	100	

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER40A926A40102	IR40-IR40-4"-EX	IR40	IR40	4.00"	
T12ER40A926A40127	IR40-IR40-5"-EX	IR40	IR40	5.00"	
T12ER41A926A41102	IR41-IR41-4"-EX	IR41	IR41	4.00"	
T12ER41A926A42102	IR41-IR42-4"-EX	IR41	IR42	4.00"	

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER40A020A40051	IR40-ER40-2.0"	IR40	ER40	2.00"	
T12ER40A020A40102	IR40-ER40-4.0"	IR40	ER40	4.00"	

END MILL HOLDER COOLANT SLOT INCH - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER40A030A25051	IR40-EM1"-2.0"J	IR40	EM1"	2.00"	
T12ER40A030A25102	IR40-EM1"-4.0"J	IR40	EM1"	4.00"	
T12ER40A030A32051	IR40-EM1 1/4"-2.0"J	IR40	EM1 1/4"	2.00"	
T12ER40A030A32102	IR40-EM1 1/4"-4.0"J	IR40	EM1 1/4"	4.00"	

INDEX - IR40 EXTENSION

END MILL HOLDER METRIC - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A040-20112	IR40-EM20-112	IR40	EM20	112	
T12ER40A040-25060	IR40-EM25-060	IR40	EM25	60	
T12ER40A040-25100	IR40-EM25-100	IR40	EM25	100	
T12ER40A040-25112	IR40-EM25-112	IR40	EM25	112	
T12ER41A040-32060	IR41-EM32-060	IR41	EM32	60	
T12ER41A040-32100	IR41-EM32-100	IR41	EM32	100	
T12ER41A040-40100	IR41-EM40-100	IR41	EM40	100	
T12ER42A040-50100	IR42-EM50-100	IR42	EM50	100	

END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER40A040A25051	IR40-EM1"-2.0"	IR40	EM1"	2.00"	
T12ER40A040A25102	IR40-EM1"-4.0"	IR40	EM1"	4.00"	
T12ER40A040A32051	IR40-EM1 1/4"-2.0"	IR40	EM1 1/4"	2.00"	
T12ER40A040A32102	IR40-EM1 1/4"-4.0"	IR40	EM1 1/4"	4.00"	
T12ER41A040A38102	IR41-EM1 1/2"-4.0"	IR41	EM1 1/2"	4.00"	
T12ER41A040A50102	IR41-EM2"-4.0"	IR41	EM2"	4.00"	

SHELL MILLING HOLDER METRIC - 120

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A120-27060	IR40-SM27-060	IR40	SM27	60	
T12ER40A120-27100	IR40-SM27-100	IR40	SM27	100	
T12ER41A120-32060	IR41-SM32-060	IR41	SM32	60	
T12ER41A120-32100	IR41-SM32-100	IR41	SM32	100	
T12ER42A120-40060	IR42-SM40-060	IR42	SM40	60	
T12ER42A120-40100	IR42-SM40-100	IR42	SM40	100	
T12ER42A120-60060	IR42-SM60-060	IR42	SM60	60	
T12ER42A120-60100	IR42-SM60-100	IR42	SM60	100	

SHELL MILLING HOLDER INCH - 120

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER41A120A32063	IR41-SM1 1/4"-2.5"	IR41	SM1 1/4"	2.50"	
T12ER41A120A32102	IR41-SM1 1/4"-4"	IR41	SM1 1/4"	4.00"	
T12ER42A120A38063	IR42-SM1 1/2"-2.5"	IR42	SM1 1/2"	2.50"	
T12ER42A120A38102	IR42-SM1 1/2"-4"	IR42	SM1 1/2"	4.00"	
T12ER42A120A50063	IR42-SM2"-2.5"	IR42	SM2"	2.50"	
T12ER42A120A50102	IR42-SM2"-4"	IR42	SM2"	4.00"	

SHELL MILLING HOLDER COOLANT SLOT METRIC - 130

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A130-27060	IR40-SM27-060J	IR40	SM27	60	
T12ER40A130-27100	IR40-SM27-100J	IR40	SM27	100	
T12ER41A130-32060	IR41-SM32-060J	IR41	SM32	60	
T12ER41A130-32100	IR41-SM32-100J	IR41	SM32	100	
T12ER42A130-40060	IR42-SM40-060J	IR42	SM40	60	
T12ER42A130-40100	IR42-SM40-100J	IR42	SM40	100	
T12ER42A130-60060	IR42-SM60-060J	IR42	SM60	60	
T12ER42A130-60100	IR42-SM60-100J	IR42	SM60	100	

SHELL MILLING HOLDER COOLANT SLOT INCH - 130

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER41A130A32063	IR41-SM1 1/4"-2.5"J	IR41	SM1 1/4"	2.50"	
T12ER41A130A32102	IR41-SM1 1/4"-4"J	IR41	SM1 1/4"	4.00"	
T12ER42A130A38063	IR42-SM1 1/2"-2.5"J	IR42	SM1 1/2"	2.50"	
T12ER42A130A38102	IR42-SM1 1/2"-4"J	IR42	SM1 1/2"	4.00"	
T12ER42A130A50063	IR42-SM2"-2.5"J	IR42	SM2"	2.50"	
T12ER42A130A50102	IR42-SM2"-4"J	IR42	SM2"	4.00"	

TOOLING KIT - T90

8 pcs TOOLING KIT

5× ER COLLET CHUCKS

2× END MILL HOLDERS

1× SHELL MILL HOLDERS

8× RETENSION KNOBS or COOLANT TUBE (HSK)

1× ER16 WRENCH

1× ER32 WRENCH



BT40 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L mm	Qty
T90-BT40-S01	BT40 8pcs			8
T00BT40020-16070A	BT40 ER16-070	ER16	70	2
T00BT40020-32070A	BT40 ER32-070	ER32	70	1
T00BT40020-32100A	BT40 ER32-100	ER32	100	2
T00BT40040-12063A	BT40 EM12-063	EM12	63	1
T00BT40040-20063A	BT40 EM20-063	EM20	63	1
T00BT40130-22040A	BT40 SM22-040J	SM22	40	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05BT40B45-G	BT40-45°-W-G			8
T05BT40B60-G	BT40-60°-W-G			8
T05BT40B90-G	BT40-90°-W-G			8
T05BT40B45DMA-G	BT40-45°-W-G, Mazak			8
T05BT40B75-JIS-G	BT40-75°-W-BBT-G			8
T05BT40B75DMO-G	BT40-75°-W-G, DMG			8

BT40 8PCS TOOLING KIT INCH

Order Number	Part Name	Chuck	L inch	Qty
T90-BT40-AS01	BT40 8pcs			8
T00BT40020A16070A	BT40 ER16-2.76"	ER16	2.76"	2
T00BT40020A32070A	BT40 ER32-2.76"	ER32	2.76"	1
T00BT40020A32102A	BT40 ER32-4"	ER32	4.00"	2
T00BT40040A12065A	BT40 EM1/2"-2.56"	EM1/2"	2.56"	1
T00BT40040A19065A	BT40 EM3/4"-2.56"	EM3/4"	2.56"	1
T00BT40130A25051A	BT40 SM1"-2"J	SM1"	2.00"	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05BT40B45-G	BT40-45°-W-G			8
T05BT40B60-G	BT40-60°-W-G			8
T05BT40B90-G	BT40-90°-W-G			8
T05BT40B45DMA-G	BT40-45°-W-G, Mazak			8
T05BT40B75-JIS-G	BT40-75°-W-BBT-G			8
T05BT40B75DMO-G	BT40-75°-W-G, DMG			8

SK40 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L mm	Qty
T90-SK40-S01	SK40 8pcs			8
T00SK40020-16070A	SK40 ER16-070	ER16	70	2
T00SK40020-32070A	SK40 ER32-070	ER32	70	1
T00SK40020-32100A	SK40 ER32-100	ER32	100	2
T00SK40040-12063A	SK40 EM12-063	EM12	63	1
T00SK40040-20063A	SK40 EM20-063	EM20	63	1
T00SK40130-22035A	SK40 SM22-035J	SM22	35	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05SK40B45-G	SK40-45°-W-G,			8

CAT40 8PCS TOOLING KIT INCH

Order Number	Part Name	Chuck	L inch	Qty
T90-CA40-S01	CA40 8pcs			8
T00CA40020-16063A	CAT40 ER16-2.5"	ER16	2.50"	2
T00CA40020-32070A	CAT40 ER32-2.76"	ER32	2.76"	1
T00CA40020-32102A	CAT40 ER32-4"	ER32	4.00"	2
T00CA40040-12065A	CAT40 EM1/2"-2.56"	EM1/2"	2.56"	1
T00CA40040-19065A	CAT40 EM3/4"-2.56"	EM3/4"	2.56"	1
T00CA40130-25051A	CAT40 SM1"-2"J	SM1"	2.00"	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05CA40B45-G	CAT40-45°-W-G			8
T05CA40B45-HA-G	CAT40-45°-W-G,Haas			8
T05CA40B45-MA-G	CAT40-45°-W-G,Mazak			8
T05CA40B75-MO-G	CAT40-75°-W-G,DMG-MORI			8
T05CA40B75-MI-G	CAT40-75°-W-G,Makino			8

HSK A63 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L mm	Qty
T90-HA63-S01	HSK A63 8pcs			8
T00HA63020-16100A	HSK A63 ER16-100	ER16	100	2
T00HA63020-32080A	HSK A63 ER32-080	ER32	80	1
T00HA63020-32100A	HSK A63 ER32-100	ER32	100	2
T00HA63040-12080A	HSK A63 EM12-080	EM12	80	1
T00HA63040-20080A	HSK A63 EM20-080	EM20	80	1
T00HA63130-22050A	HSK A63 SM22-050J	SM22	50	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
COOLANT TUBE				8
T17HSA63-01	HSK A63 coolant tube			8

HSK A100 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L inch	Qty
T90-HA10-S01	HSK A100 8pcs KIT			8
T00HA10020-16100A	HSK A100 ER16-100	ER16	100	2
T00HA10020-32100A	HSK A100 ER32-100	ER32	100	2
T00HA10040-12090A	HSK A100 EM12-090	EM12	90	2
T00HA10040-20100A	HSK A100 EM20-100	EM20	100	1
T00HA10130-22050A	HSK A100 SM22-050J	SM22	50	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
COOLANT TUBE				8
T17HSA100-01	HSK A100 coolant tube			8

TOOLING KIT - T90

8 pcs TOOLING KIT

- 5× ER COLLET CHUCKS
- 2× END MILL HOLDERS
- 1× SHELL MILL HOLDERS
- 8× RETENSION KNOBS
- 1× ER16 WRENCH
- 1× ER32 WRENCH



BT50 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L mm	Qty
T90-BT50-S01	BT50 8pcs			8
T00BT50020-16100A	BT50 ER16-100	ER16	100	2
T00BT50020-32070A	BT50 ER32-070	ER32	70	1
T00BT50020-32100A	BT50 ER32-100	ER32	100	2
T00BT50040-12080A	BT50 EM12-080	EM12	80	1
T00BT50040-20080A	BT50 EM20-080	EM20	80	1
T00BT50130-22050A	BT50 SM22-050J	SM22	50	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05BT50B45-G	BT50-45°-W-G			8
T05BT50B60-G	BT50-60°-W-G			8
T05BT50B90-G	BT50-90°-W-G			8
T05BT50B45DMA-G	BT50-45°-W-G, Mazak			8
T05BT50B75-JIS-G	BT50-75°-W-BBT-G			8
T05BT50B75DMO-G	BT50-75°-W-G, DMG			8

BT50 8PCS TOOLING KIT INCH

Order Number	Part Name	Chuck	L inch	Qty
T90-BT50-AS01	BT50 8pcs			8
T00BT50020A16070A	BT50 ER16-2.76"	ER16	2.76"	2
T00BT50020A32070A	BT50 ER32-2.76"	ER32	2.76"	1
T00BT50020A32102A	BT50 ER32-4"	ER32	4.00"	2
T00BT50040A12080A	BT50 EM1/2"-3.15"	EM1/2"	3.15"	1
T00BT50040A19080A	BT50 EM3/4"-3.15"	EM3/4"	3.15"	1
T00BT50130A25051A	BT50 SM1"-2"J	SM1"	2.00"	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05BT50B45-G	BT50-45°-W-G			8
T05BT50B60-G	BT50-60°-W-G			8
T05BT50B90-G	BT50-90°-W-G			8
T05BT50B45DMA-G	BT50-45°-W-G, Mazak			8
T05BT50B75-JIS-G	BT50-75°-W-BBT-G			8
T05BT50B75DMO-G	BT50-75°-W-G, DMG			8

SK50 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L mm	Qty
T90-SK50-S01	SK50 8pcs			8
T00SK50020-16100A	SK50 ER16-100	ER16	100	2
T00SK50020-32070A	SK50 ER32-070	ER32	70	1
T00SK50020-32100A	SK50 ER32-100	ER32	100	2
T00SK50040-12063A	SK50 EM12-063	EM12	63	1
T00SK50040-20063A	SK50 EM20-063	EM20	63	1
T00SK50130-22035A	SK50 SM22-035J	SM22	35	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05SK50B45-G	SK50-45°-W-G			8

CAT50 8PCS TOOLING KIT INCH

Order Number	Part Name	Chuck	L inch	Qty
T90-CA50-S01	CA50 8pcs			8
T00CA50020-16100A	CAT50 ER16-4"	ER16	4.00"	2
T00CA50020-32070A	CAT50 ER32-2.76"	ER32	2.76"	1
T00CA50020-32102A	CAT50 ER32-4"	ER32	4.00"	2
T00CA50040-12075A	CAT50 EM1/2"-2.95"	EM1/2"	2.95"	1
T00CA50040-19076A	CAT50 EM3/4"-3"	EM3/4"	3.00"	1
T00CA50130-25051A	CAT50 SM1"-2"J	SM1"	2.00"	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05CA50B45-G	CAT50-45°-W-G			8
T05CA50B45-HA-G	CAT50-45°-W-G,Haas			8
T05CA50B45-MA-G	CAT50-45°-W-G,Mazak			8
T05CA50B75-MO-G	CAT50-75°-W-G,DMG-MORI			8
T05CA50B75-MI-G	CAT50-75°-W-G,Makino			8

8 pcs TOOLING KIT

5× ER COLLET CHUCKS

2× END MILL HOLDERS

1× SHELL MILL HOLDERS

8× RETENSION KNOBS or COOLANT TUBE

1× ER16 WRENCH

1× ER32 WRENCH



PBBT40 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L mm	Qty
T90-BT40-E01	PBBT40 8pcs			8
T00BT40022-16070A	PBBT40 ER16-070	ER16	70	2
T00BT40022-32070A	PBBT40 ER32-070	ER32	70	1
T00BT40022-32100A	PBBT40 ER32-100	ER32	100	2
T00BT40042-12063A	PBBT40 EM12-063	EM12	63	1
T00BT40042-20063A	PBBT40 EM20-063	EM20	63	1
T00BT40132-22040A	PBBT40 SM22-040J	SM22	40	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05BT40B45DMA-G	BT40-45°-W-G, Mazak			8
T05BT40B75-JIS-G	BT40-75°-W-BBT-G			8
T05BT40B75DMO-G	BT40-75°-W-G, DMG			8

PBBT50 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L mm	Qty
T90-BT40-E01	PBBT50 8pcs			8
T00BT50022A16100A	PBBT50 ER16-100	ER16	100	2
T00BT50022A32070A	PBBT50 ER32-070	ER32	70	1
T00BT50022A32100A	PBBT50 ER32-100	ER32	100	2
T00BT50042A12080A	PBBT50 EM12-080	EM12	80	1
T00BT50042A20080A	PBBT50 EM20-080	EM20	80	1
T00BT50132A22050A	PBBT50 SM22-050J	SM22	50	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05BT50B45DMA-G	BT50-45°-W-G, Mazak			8
T05BT50B75-JIS-G	BT50-75°-W-BBT-G			8
T05BT50B75DMO-G	BT50-75°-W-G, DMG			8

PBCAT40 8PCS TOOLING KIT INCH

Order Number	Part Name	Chuck	L mm	Qty
T90-CA40-E01	PBCAT40 8pcs			8
T00CA40022-16063A	PBCAT40 ER16-2.5"	ER16	2.50"	2
T00CA40022-32070A	PBCAT40 ER32-2.76"	ER32	2.76"	1
T00CA40022-32102A	PBCAT40 ER32-4"	ER32	4.00"	2
T00CA40042-12065A	PBCAT40 EM1/2"-2.56"	EM1/2"	2.56"	1
T00CA40042-19065A	PBCAT40 EM3/4"-2.56"	EM3/4"	2.56"	1
T00CA40132-25051A	PBCAT40 SM1"-2"J	SM1"	2.00"	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05CA40B45-G	CAT40-45°-W-G			8
T05CA40B45-HA-G	CAT40-45°-W-G, Haas			8
T05CA40B45-MA-G	CAT40-45°-W-G, Mazak			8
T05CA40B75-MO-G	CAT40-75°-W-G, DMG-MORI			8
T05CA40B75-MI-G	CAT40-75°-W-G, Makino			8

PBCAT50 8PCS TOOLING KIT INCH

Order Number	Part Name	Chuck	L inch	Qty
T90-CA50-E01	PBCAT50 8pcs			8
T00CA50022-16100A	PBCAT50 ER16-4"	ER16	4.00"	2
T00CA50022-32070A	PBCAT50 ER32-2.76"	ER32	2.76"	1
T00CA50022-32102A	PBCAT50 ER32-4"	ER32	4.00"	2
T00CA50042-12075A	PBCAT50 EM1/2"-2.95"	EM1/2"	2.95"	1
T00CA50042-19076A	PBCAT50 EM3/4"-3"	EM3/4"	3.00"	1
T00CA50132-25051A	PBCAT50 SM1"-2"J	SM1"	2.00"	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05CA50B45-G	CAT50-45°-W-G			8
T05CA50B45-HA-G	CAT50-45°-W-G, Haas			8
T05CA50B45-MA-G	CAT50-45°-W-G, Mazak			8
T05CA50B75-MO-G	CAT50-75°-W-G, DMG-MORI			8
T05CA50B75-MI-G	CAT50-75°-W-G, Makino			8

PBSK40 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L mm	Qty
T90-SK40-E01	PBSK40 8pcs			8
T00SK40022-16070A	PBSK40 ER16-070	ER16	70	2
T00SK40022-32070A	PBSK40 ER32-070	ER32	70	1
T00SK40022-32100A	PBSK40 ER32-100	ER32	100	2
T00SK40042-12063A	PBSK40 EM12-063	EM12	63	1
T00SK40042-20063A	PBSK40 EM20-063	EM20	63	1
T00SK40132-22035A	PBSK40 SM22-035J	SM22	35	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05SK40B45-G	SK40-45°-W-G			8

PBSK50 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L inch	Qty
T90-SK50-E01	PBSK50 8pcs			8
T00SK50022-16100A	PBSK50 ER16-100	ER16	100	2
T00SK50022-32070A	PBSK50 ER32-070	ER32	70	1
T00SK50022-32100A	PBSK50 ER32-100	ER32	100	2
T00SK50042-12063A	PBSK50 EM12-063	EM12	63	1
T00SK50042-20063A	PBSK50 EM20-063	EM20	63	1
T00SK50132-22035A	PBSK50 SM22-035J	SM22	35	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05SK50B45-G	SK50-45°-W-G			8



I SYSTEM KIT

TOOLING KIT - T90

ORDER No T90-XXXX-IR08-01

- 1x SHANK IR EXTENSION BASE
- 2x IR EXTENSION BASE
- 2x ER COLLET CHUCK **MINI** EXTENSION
- 6x SHRINK-FIT 3° SLIM HOLDER EXTENSION



I SYSTEM IR08 TOOLING KIT - IR08 BASE METRIC

Order Number	SHANK	Qty
T90-BT30-IR08-01	BT30	
T90-BT40-IR08-01	BT40	
T90-BT50-IR08-01	BT50	
T90-SK40-IR08-01	SK40	
T90-SK50-IR08-01	SK50	
T90-HA63-IR08-01	HSK A63	
T90-HA10-IR08-01	HSK A100	

I SYSTEM IR08 TOOLING KIT - IR08 BASE INCH

Order Number	SHANK	Qty
T90-BT30-IR08A01	BT30	
T90-BT40-IR08A01	BT40	
T90-BT50-IR08A01	BT50	
T90-CA40-IR08-01	CAT40	
T90-CA50-IR08-01	CAT50	
T90-HA63-IR08A01	HSK A63	
T90-HA10-IR08A01	HSK A100	

IPE SYSTEM IR08 TOOLING KIT - IR08 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT30-IR08-01	PBBT30	
T90-PBBT40-IR08-01	PBBT40	
T90-PBBT50-IR08-01	PBBT50	
T90-PBSK40-IR08-01	PBSK40	
T90-PBSK50-IR08-01	PBSK50	

IPE SYSTEM IR08 TOOLING KIT - IR08 BASE INCH

Order Number	SHANK	Qty
T90-PBBT30-IR08A01	PBBT30	
T90-PBBT40-IR08A01	PBBT40	
T90-PBBT50-IR08A01	PBBT50	
T90-PBCA40-IR08-01	PBCAT40	
T90-PBCA50-IR08-01	PBCAT50	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER08A926-08050	IR08-IR08-050-EX	IR08	IR08	50	1
T12ER08A926-08100	IR08-IR08-100-EX	IR08	IR08	100	1

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER08A926A08051	IR08-IR08-2"-EX	IR08	IR08	2.00"	1
T12ER08A926A08102	IR08-IR08-4"-EX	IR08	IR08	4.00"	1

ER COLLET CHUCK **MINI** NUT METRIC - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER08AM20-08060	IR08-ER08-060M	IR08	ER08M	60	1
T12ER08AM20-08100	IR08-ER08-100M	IR08	ER08M	100	1

ER COLLET CHUCK **MINI** NUT INCH - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER08AM20A08051	IR08-ER08-2.0"M	IR08	ER08M	2.00"	1
T12ER08AM20A08102	IR08-ER08-4.0"M	IR08	ER08M	4.00"	1

SHRINK - FIT HOLODER 3° SLIM METRIC - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER08A250-03060	IR08-SF03-060-3° slim	IR08	SF03	60	1
T12ER08A250-03100	IR08-SF03-100-3° slim	IR08	SF03	100	1
T12ER08A250-05060	IR08-SF05-060-3° slim	IR08	SF05	60	1
T12ER08A250-05100	IR08-SF05-100-3° slim	IR08	SF05	100	1
T12ER08A250-06060	IR08-SF06-060-3° slim	IR08	SF06	60	1
T12ER08A250-06100	IR08-SF06-100-3° slim	IR08	SF06	100	1

SHRINK - FIT HOLODER 3° SLIM INCH - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER08A250A03060	IR08-SF1/8"-2.36"-3° slim	IR08	SF1/8"	2.36"	1
T12ER08A250A03102	IR08-SF1/8"-4"-3° slim	IR08	SF1/8"	4.00"	1
T12ER08A250A05060	IR08-SF3/16"-2.36"-3° slim	IR08	SF3/16"	2.36"	1
T12ER08A250A05102	IR08-SF3/16"-4"-3° slim	IR08	SF3/16"	4.00"	1
T12ER08A250A06060	IR08-SF1/4"-2.36"-3° slim	IR08	SF1/4"	2.36"	1
T12ER08A250A06102	IR08-SF1/4"-4"-3° slim	IR08	SF1/4"	4.00"	1

TOOLING KIT - T90

ORDER No T90-XXXX-IR8S-01

- 1x SHANK IR EXTENSION BASE
- 2x IR EXTENSION BASE
- 4x ER COLLET CHUCK **MINI** EXTENSION
- 1x SHRINK-FIT 4.5° HOLDER EXTENSION
- 4x SHRINK-FIT 3° HOLDER EXTENSION
- 6x SHRINK-FIT 3° **SLIM** HOLDER EXTENSION



I SYSTEM IR8S TOOLING KIT - IR8S BASE **METRIC**

Order Number	SHANK	Qty
T90-BT30-IR8S-01	BT30	
T90-BT40-IR8S-01	BT40	
T90-BT50-IR8S-01	BT50	
T90-SK40-IR8S-01	SK40	
T90-SK50-IR8S-01	SK50	
T90-HA63-IR8S-01	HSK A63	
T90-HA10-IR8S-01	HSK A100	

I SYSTEM IR8S TOOLING KIT - IR8S BASE **INCH**

Order Number	SHANK	Qty
T90-BT30-IR8SA01	BT30	
T90-BT40-IR8SA01	BT40	
T90-BT50-IR8SA01	BT50	
T90-CA40-IR8S-01	CAT40	
T90-CA50-IR8S-01	CAT50	
T90-HA63-IR8SA01	HSK A63	
T90-HA10-IR8SA01	HSK A100	

IPE SYSTEM IR8S TOOLING KIT - IR8S BASE **METRIC**

Order Number	SHANK	Qty
T90-PBBT30-IR8S-01	PBBT30	
T90-PBBT40-IR8S-01	PBBT40	
T90-PBBT50-IR8S-01	PBBT50	
T90-PBSK40-IR8S-01	PBSK40	
T90-PBSK50-IR8S-01	PBSK50	

IPE SYSTEM IR8S TOOLING KIT - IR8S BASE **INCH**

Order Number	SHANK	Qty
T90-PBBT30-IR8SA01	PBBT30	
T90-PBBT40-IR8SA01	PBBT40	
T90-PBBT50-IR8SA01	PBBT50	
T90-PBCA40-IR8S-01	PBCAT40	
T90-PBCA50-IR8S-01	PBCAT50	

IR EXTENSION BASE **METRIC** - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA926-8S050	IR8S-IR8S-050-EX	IR8S	IR8S	50	1
T12ER8SA926-8S100	IR8S-IR8S-100-EX	IR8S	IR8S	100	1

IR EXTENSION BASE **INCH** - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA926-8S050	IR8S-IR8S-050-EX	IR8S	IR8S	1.97"	1
T12ER8SA926A8S102	IR8S-IR8S-4"-EX	IR8S	IR8S	4.00"	1

ER COLLET CHUCK **MINI NUT METRIC** - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SAM20-08060	IR8S-ER08-060M	IR8S	ER08M	60	1
T12ER8SAM20-08100	IR8S-ER08-100M	IR8S	ER08M	100	1
T12ER8SAM20-11060	IR8S-ER11-060M	IR8S	ER11M	60	1
T12ER8SAM20-11100	IR8S-ER11-100M	IR8S	ER11M	100	1

ER COLLET CHUCK **MINI NUT INCH** - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SAM20A08051	IR8S-ER8-2.0"M	IR8S	ER08M	2.00"	1
T12ER8SAM20A08102	IR8S-ER8-4.0"M	IR8S	ER08M	4.00"	1
T12ER8SAM20A11051	IR8S-ER11-2.0"M	IR8S	ER11M	2.00"	1
T12ER8SAM20A11102	IR8S-ER11-4.0"M	IR8S	ER11M	4.00"	1

SHRINK - FIT HOLODER 4.5° **METRIC** - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA220-03060	IR8S-SF03-060-4.5°	IR8S	SF03	60	1

SHRINK - FIT HOLODER 4.5° **INCH** - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA220A03051	IR8S-SF1/8"-2"-4.5°	IR8S	SF1/8"	2.00"	1

SHRINK - FIT HOLODER 3° **METRIC** - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA240-03100	IR8S-SF03-100-3°	IR8S	SF03	100	1
T12ER8SA240-05060	IR8S-SF05-060-3°	IR8S	SF05	60	1
T12ER8SA240-05100	IR8S-SF05-100-3°	IR8S	SF05	100	1
T12ER8SA240-06060	IR8S-SF06-060-3°	IR8S	SF06	60	1

SHRINK - FIT HOLODER 3° **INCH** - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA240A03102	IR8S-SF1/8"-4"-3°	IR8S	SF1/8"	4.00"	1
T12ER8SA240A05051	IR8S-SF3/16"-2"-3°	IR8S	SF3/16"	2.00"	1
T12ER8SA240A05102	IR8S-SF3/16"-4"-3°	IR8S	SF3/16"	4.00"	1
T12ER8SA240A06051	IR8S-SF1/4"-2"-3°	IR8S	SF1/4"	2.00"	1

SHRINK - FIT HOLODER 3° **SLIM METRIC** - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA250-03100	IR8S-SF03-100-3° slim	IR8S	SF03	100	1
T12ER8SA250-04100	IR8S-SF04-100-3° slim	IR8S	SF04	100	1
T12ER8SA250-05100	IR8S-SF05-100-3° slim	IR8S	SF05	100	1
T12ER8SA250-06100	IR8S-SF06-100-3° slim	IR8S	SF06	100	1
T12ER8SA250-08060	IR8S-SF08-060-3° slim	IR8S	SF08	60	1
T12ER8SA250-10060	IR8S-SF10-060-3° slim	IR8S	SF10	60	1

SHRINK - FIT HOLODER 3° **SLIM INCH** - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA250A03102	IR8S-SF1/8"-4"-3° slim	IR8S	SF1/8"	4.00"	1
T12ER8SA250A05060	IR8S-SF3/16"-2.36"-3° slim	IR8S	SF3/16"	2.36"	1
T12ER8SA250A05102	IR8S-SF3/16"-4"-3° slim	IR8S	SF3/16"	4.00"	1
T12ER8SA250A06102	IR8S-SF1/4"-4"-3° slim	IR8S	SF1/4"	4.00"	1
T12ER8SA250A08060	IR8S-SF5/16"-2.36"-3° slim	IR8S	SF5/16"	2.36"	1
T12ER8SA250A09060	IR8S-SF3/8"-2.36"-3° slim	IR8S	SF3/8"	2.36"	1

TOOLING KIT - T90

ORDER No T90-XXXX-IR11-01

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 4x ER COLLET CHUCK **MINI** EXTENSION
- 2x ER COLLET CHUCK EXTENSION
- 2x SHRINK-FIT 4.5° HOLDER EXTENSION
- 4x SHRINK-FIT 3° HOLDER EXTENSION



I SYSTEM IR11 TOOLING KIT - IR11 BASE METRIC

Order Number	SHANK	Qty
T90-BT30-IR11-01	BT30	
T90-BT40-IR11-01	BT40	
T90-BT50-IR11-01	BT50	
T90-SK40-IR11-01	SK40	
T90-SK50-IR11-01	SK50	
T90-HA63-IR11-01	HSK A63	
T90-HA10-IR11-01	HSK A100	

I SYSTEM IR11 TOOLING KIT - IR11 BASE INCH

Order Number	SHANK	Qty
T90-BT30-IR11A01	BT30	
T90-BT40-IR11A01	BT40	
T90-BT50-IR11A01	BT50	
T90-CA40-IR11-01	CAT40	
T90-CA50-IR11-01	CAT50	
T90-HA63-IR11A01	HSK A63	
T90-HA10-IR11A01	HSK A100	

IPE SYSTEM IR11 TOOLING KIT - IR11 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT30-IR11-01	PBBT30	
T90-PBBT40-IR11-01	PBBT40	
T90-PBBT50-IR11-01	PBBT50	
T90-PBSK40-IR11-01	PBSK40	
T90-PBSK50-IR11-01	PBSK50	

IPE SYSTEM IR11 TOOLING KIT - IR11 BASE INCH

Order Number	SHANK	Qty
T90-PBBT30-IR11A01	PBBT30	
T90-PBBT40-IR11A01	PBBT40	
T90-PBBT50-IR11A01	PBBT50	
T90-PBCA40-IR11-01	PBCAT40	
T90-PBCA50-IR11-01	PBCAT50	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A926-11100	IR11-IR11-100-EX	IR11	IR11	100	1

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A926A11102	IR11-IR11-4"-EX	IR11	IR11	4.00"	1

ER COLLET CHUCK **MINI** NUT METRIC - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11AM20-08060	IR11-ER08-060M	IR11	ER08M	60	1
T12ER11AM20-08100	IR11-ER08-100M	IR11	ER08M	100	1
T12ER11AM20-11060	IR11-ER11-060M	IR11	ER11M	60	1
T12ER11AM20-11100	IR11-ER11-100M	IR11	ER11M	100	1

ER COLLET CHUCK **MINI** NUT INCH - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11AM20A08051	IR11-ER08-2.0"M	IR11	ER08M	2.00"	1
T12ER11AM20A08102	IR11-ER08-4.0"M	IR11	ER08M	4.00"	1
T12ER11AM20A11051	IR11-ER11-2.0"M	IR11	ER11M	2.00"	1
T12ER11AM20A11102	IR11-ER11-4.0"M	IR11	ER11M	4.00"	1

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A020-11060	IR11-ER11-060	IR11	ER11	60	1
T12ER11A020-11100	IR11-ER11-100	IR11	ER11	100	1

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A020A11051	IR11-ER11-2.0"	IR11	ER11	2.00"	1
T12ER11A020A11102	IR11-ER11-4.0"	IR11	ER11	4.00"	1

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A220-03060	IR11-SF03-060-4.5°	IR11	SF03	60	1
T12ER11A220-05060	IR11-SF05-060-4.5°	IR11	SF05	60	1

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A220A03051	IR11-SF1/8"-2"-4.5°	IR11	SF1/8"	2.00"	1
T12ER11A220A05051	IR11-SF3/16"-2"-4.5°	IR11	SF3/16"	2.00"	1

SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A240-03100	IR11-SF03-100-3°	IR11	SF03	100	1
T12ER11A240-05100	IR11-SF05-100-3°	IR11	SF05	100	1
T12ER11A240-06100	IR11-SF06-100-3°	IR11	SF06	100	1
T12ER11A240-10060	IR11-SF10-060-3°	IR11	SF10	60	1

SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A240A03102	IR11-SF1/8"-4"-3°	IR11	SF1/8"	4.00"	1
T12ER11A240A05102	IR11-SF3/16"-4"-3°	IR11	SF3/16"	4.00"	1
T12ER11A240A06102	IR11-SF1/4"-4"-3°	IR11	SF1/4"	4.00"	1
T12ER11A240A09051	IR11-SF3/8"-2"-3°	IR11	SF3/8"	2.00"	1

TOOLING KIT - T90

ORDER No T90-XXXX-IR11-02

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 1x ER COLLET CHUCK EXTENSION
- 4x SHRINK-FIT 4.5° HOLDER EXTENSION
- 5x SHRINK-FIT 3° HOLDER EXTENSION
- 2x SHRINK-FIT 3° SLIM HOLDER EXTENSION



I SYSTEM IR11 TOOLING KIT - IR11 BASE METRIC

Order Number	SHANK	Qty
T90-BT30-IR11-02	BT30	
T90-BT40-IR11-02	BT40	
T90-BT50-IR11-02	BT50	
T90-SK40-IR11-02	SK40	
T90-SK50-IR11-02	SK50	
T90-HA63-IR11-02	HSK A63	
T90-HA10-IR11-02	HSK A100	

I SYSTEM IR11 TOOLING KIT - IR11 BASE INCH

Order Number	SHANK	Qty
T90-BT30-IR11A02	BT30	
T90-BT40-IR11A02	BT40	
T90-BT50-IR11A02	BT50	
T90-CA40-IR11-02	CAT40	
T90-CA50-IR11-02	CAT50	
T90-HA63-IR11A02	HSK A63	
T90-HA10-IR11A02	HSK A100	

IPE SYSTEM IR11 TOOLING KIT - IR11 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT30-IR11-02	PBBT30	
T90-PBBT40-IR11-02	PBBT40	
T90-PBBT50-IR11-02	PBBT50	
T90-PBSK40-IR11-02	PBSK40	
T90-PBSK50-IR11-02	PBSK50	

IPE SYSTEM IR11 TOOLING KIT - IR11 BASE INCH

Order Number	SHANK	Qty
T90-PBBT30-IR11A02	PBBT30	
T90-PBBT40-IR11A02	PBBT40	
T90-PBBT50-IR11A02	PBBT50	
T90-PBCA40-IR11-02	PBCAT40	
T90-PBCA50-IR11-02	PBCAT50	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A926-11100	IR11-IR11-100-EX	IR11	IR11	100	1

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A926A11102	IR11-IR11-4"-EX	IR11	IR11	4.00"	1

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A020-11060	IR11-ER11-060	IR11	ER11	60	1

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A020A11051	IR11-ER11-2.0"	IR11	ER11	2.00"	1

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A220-03060	IR11-SF03-060-4.5°	IR11	SF03	60	1
T12ER11A220-03100	IR11-SF03-100-4.5°	IR11	SF03	100	1
T12ER11A220-05060	IR11-SF05-060-4.5°	IR11	SF05	60	1
T12ER11A220-05100	IR11-SF05-100-4.5°	IR11	SF05	100	1

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A220A03051	IR11-SF1/8"-2"-4.5°	IR11	SF1/8"	2.00"	1
T12ER11A220A03102	IR11-SF1/8"-4"-4.5°	IR11	SF1/8"	4.00"	1
T12ER11A220A05051	IR11-SF3/16"-2"-4.5°	IR11	SF3/16"	2.00"	1
T12ER11A220A05102	IR11-SF3/16"-4"-4.5°	IR11	SF3/16"	4.00"	1

SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A240-03100	IR11-SF03-100-3°	IR11	SF03	100	1
T12ER11A240-05100	IR11-SF05-100-3°	IR11	SF05	100	1
T12ER11A240-06100	IR11-SF06-100-3°	IR11	SF06	100	1
T12ER11A240-08060	IR11-SF08-060-3°	IR11	SF08	60	1
T12ER11A240-10060	IR11-SF10-060-3°	IR11	SF10	60	1

SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A240A03102	IR11-SF1/8"-4"-3°	IR11	SF1/8"	4.00"	1
T12ER11A240A05102	IR11-SF3/16"-4"-3°	IR11	SF3/16"	4.00"	1
T12ER11A240A06102	IR11-SF1/4"-4"-3°	IR11	SF1/4"	4.00"	1
T12ER11A240A08051	IR11-SF5/16"-2"-3°	IR11	SF5/16"	2.00"	1
T12ER11A240A09051	IR11-SF3/8"-2"-3°	IR11	SF3/8"	2.00"	1

SHRINK - FIT HOLODER 3° SLIM METRIC - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A250-08060	IR11-SF08-060-3° slim	IR11	SF08	60	1
T12ER11A250-12100	IR11-SF12-100-3° slim	IR11	SF12	100	1

SHRINK - FIT HOLODER 3° SLIM INCH - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A250A09051	IR11-SF3/8"-2"-3° slim	IR11	SF3/8"	2.00"	1
T12ER11A250A12100	IR11-SF1/2"-4"-3° slim	IR11	SF1/2"	4.00"	1

TOOLING KIT - T90

ORDER No T90-XXXX-IR16-01

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 1x ER COLLET CHUCK **MINI** EXTENSION
- 3x ER COLLET CHUCK EXTENSION
- 1x END MILL HOLDER EXTENSION



I SYSTEM IR16 TOOLING KIT - IR16 BASE METRIC

Order Number	SHANK	Qty
T90-BT30-IR16-01	BT30	
T90-BT40-IR16-01	BT40	
T90-BT50-IR16-01	BT50	
T90-SK40-IR16-01	SK40	
T90-SK50-IR16-01	SK50	
T90-HA63-IR16-01	HSK A63	
T90-HA10-IR16-01	HSK A100	

I SYSTEM IR16 TOOLING KIT - IR16 BASE INCH

Order Number	SHANK	Qty
T90-BT30-IR16A01	BT30	
T90-BT40-IR16A01	BT40	
T90-BT50-IR16A01	BT50	
T90-CA40-IR16-01	CAT40	
T90-CA50-IR16-01	CAT50	
T90-HA63-IR16A01	HSK A63	
T90-HA10-IR16A01	HSK A100	

IPE SYSTEM IR16 TOOLING KIT - IR16 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT30-IR16-01	PBBT30	
T90-PBBT40-IR16-01	PBBT40	
T90-PBBT50-IR16-01	PBBT50	
T90-PBSK40-IR16-01	PBSK40	
T90-PBSK50-IR16-01	PBSK50	

IPE SYSTEM IR16 TOOLING KIT - IR16 BASE INCH

Order Number	SHANK	Qty
T90-PBBT30-IR16A01	PBBT30	
T90-PBBT40-IR16A01	PBBT40	
T90-PBBT50-IR16A01	PBBT50	
T90-PBCA40-IR16-01	PBCAT40	
T90-PBCA50-IR16-01	PBCAT50	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A926-16100	IR16-IR16-100-EX	IR16	IR16	100	1

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A926A16102	IR16-IR16-4"-EX	IR16	IR16	4.00"	1

ER COLLET CHUCK **MINI** NUT METRIC - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16AM20-16100	IR16-ER16-100M	IR16	ER16M	100	1

ER COLLET CHUCK **MINI** NUT INCH - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16AM20A16102	IR16-ER16-4.0"M	IR16	ER16M	4.00"	1

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A020-11100	IR16-ER11-100	IR16	ER11	100	1
T12ER16A020-16060	IR16-ER16-060	IR16	ER16	60	1
T12ER16A020-16100	IR16-ER16-100	IR16	ER16	100	1

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A020A11102	IR16-ER11-4.0"	IR16	ER11	4.00"	1
T12ER16A020A16051	IR16-ER16-2.0"	IR16	ER16	2.00"	1
T12ER16A020A16102	IR16-ER16-4.0"	IR16	ER16	4.00"	1

END MILL HOLDER METRIC - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A040-08060	IR16-EM08-060	IR16	EM08	60	1

END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A040A09051	IR16-EM3/8"-2.0"	IR16	EM3/8"	2.00"	1

TOOLING KIT - T90

ORDER No T90-XXXX-IR16-2

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 1x ER COLLET CHUCK EXTENSION
- 3x SHRINK-FIT 4.5° HOLDER EXTENSION
- 1x SHRINK-FIT 3° HOLDER EXTENSION



I SYSTEM IR16 TOOLING KIT - IR16 BASE METRIC

Order Number	SHANK	Qty
T90-BT30-IR16-02	BT30	
T90-BT40-IR16-02	BT40	
T90-BT50-IR16-02	BT50	
T90-SK40-IR16-02	SK40	
T90-SK50-IR16-02	SK50	
T90-HA63-IR16-02	HSK A63	
T90-HA10-IR16-02	HSK A100	

I SYSTEM IR16 TOOLING KIT - IR16 BASE INCH

Order Number	SHANK	Qty
T90-BT30-IR16A02	BT30	
T90-BT40-IR16A02	BT40	
T90-BT50-IR16A02	BT50	
T90-CA40-IR16-02	CAT40	
T90-CA50-IR16-02	CAT50	
T90-HA63-IR16A02	HSK A63	
T90-HA10-IR16A02	HSK A100	

IPE SYSTEM IR16 TOOLING KIT - IR16 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT30-IR16-02	PBBT30	
T90-PBBT40-IR16-02	PBBT40	
T90-PBBT50-IR16-02	PBBT50	
T90-PBSK40-IR16-02	PBSK40	
T90-PBSK50-IR16-02	PBSK50	

IPE SYSTEM IR16 TOOLING KIT - IR16 BASE INCH

Order Number	SHANK	Qty
T90-PBBT30-IR16A02	PBBT30	
T90-PBBT40-IR16A02	PBBT40	
T90-PBBT50-IR16A02	PBBT50	
T90-PBCA40-IR16-02	PBCAT40	
T90-PBCA50-IR16-02	PBCAT50	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A926-16100	IR16-IR16-100-EX	IR16	IR16	100	1

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A926A16102	IR16-IR16-4"-EX	IR16	IR16	4.00"	1

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A020-16100	IR16-ER16-100	IR16	ER16	100	1

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A020A16102	IR16-ER16-4.0"	IR16	ER16	4.00"	1

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A220-06060	IR16-SF06-060-4.5°	IR16	SF06	60	1
T12ER16A220-10060	IR16-SF10-060-4.5°	IR16	SF10	60	1
T12ER16A220-12100	IR16-SF12-100-4.5°	IR16	SF12	100	1

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A220A06051	IR16-SF1/4"-2"-4.5°	IR16	SF1/4"	2.00"	1
T12ER16A220A09051	IR16-SF3/8"-2"-4.5°	IR16	SF3/8"	2.00"	1
T12ER16A220A12102	IR16-SF1/2"-4"-4.5°	IR16	SF1/2"	4.00"	1

SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A240-12100	IR16-SF12-100-3°	IR16	SF12	100	1

SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A240A12102	IR16-SF1/2"-4"-3°	IR16	SF1/2"	4.00"	1

TOOLING KIT - T90

ORDER No T90-XXXX-IR20-01

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 3x ER COLLET CHUCK EXTENSION
- 1x END MILL HOLDER EXTENSION
- 1x SCREW-IN HOLDER EXTENSION



I SYSTEM IR20 TOOLING KIT - IR20 BASE METRIC

Order Number	SHANK	Qty
T90-BT30-IR20-01	BT30	
T90-BT40-IR20-01	BT40	
T90-BT50-IR20-01	BT50	
T90-SK40-IR20-01	SK40	
T90-SK50-IR20-01	SK50	
T90-HA63-IR20-01	HSK A63	
T90-HA10-IR20-01	HSK A100	

I SYSTEM IR20 TOOLING KIT - IR20 BASE INCH

Order Number	SHANK	Qty
T90-BT30-IR20A01	BT30	
T90-BT40-IR20A01	BT40	
T90-BT50-IR20A01	BT50	
T90-CA40-IR20-01	CAT40	
T90-CA50-IR20-01	CAT50	
T90-HA63-IR20A01	HSK A63	
T90-HA10-IR20A01	HSK A100	

IPE SYSTEM IR20 TOOLING KIT - IR20 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT30-IR20-01	PBBT30	
T90-PBBT40-IR20-01	PBBT40	
T90-PBBT50-IR20-01	PBBT50	
T90-PBSK40-IR20-01	PBSK40	
T90-PBSK50-IR20-01	PBSK50	

IPE SYSTEM IR16 TOOLING KIT - IR16 BASE INCH

Order Number	SHANK	Qty
T90-PBBT30-IR20A01	PBBT30	
T90-PBBT40-IR20A01	PBBT40	
T90-PBBT50-IR20A01	PBBT50	
T90-PBCA40-IR20-01	PBCAT40	
T90-PBCA50-IR20-01	PBCAT50	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER20A926-20100	IR20-IR20-100-EX	IR20	IR20	100	1

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER20A926A20102	IR20-IR20-4"-EX	IR20	IR20	4.00"	1

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER20A020-16100	IR20-ER16-100	IR20	ER16	100	1
T12ER20A020-20060	IR20-ER20-060	IR20	ER20	60	1
T12ER20A020-20100	IR20-ER20-100	IR20	ER20	100	1

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER20A020-16100	IR20-ER16-100	IR20	ER16	3.94"	1
T12ER20A020A20051	IR20-ER20-2.0"	IR20	ER20	2.00"	1
T12ER20A020A20102	IR20-ER20-4.0"	IR20	ER20	4.00"	1

END MILL HOLDER METRIC - 040

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER20A040-10060	IR20-EM10-060	IR20	EM10	60	1

END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER20A040A12051	IR20-EM1/2"-2.0"	IR20	EM1/2"	2.00"	1

SCREW-IN HOLDER METRIC - 200

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER20A200-16060	IR20-M16-060	IR20	M16	60	1

SCREW-IN HOLDER INCH - 200

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER20A200A16060	IR20-M16-2.36"	IR20	M16	2.36"	1

TOOLING KIT - T90

ORDER No T90-XXXX-IR25-01

1x SHANK IR EXTENSION BASE

1x IR EXTENSION BASE

4x ER COLLET CHUCK EXTENSION



I SYSTEM IR25 TOOLING KIT - IR25 BASE METRIC

Order Number	SHANK	Qty
T90-BT30-IR25-01	BT30	
T90-BT40-IR25-01	BT40	
T90-BT50-IR25-01	BT50	
T90-SK40-IR25-01	SK40	
T90-SK50-IR25-01	SK50	
T90-HA63-IR25-01	HSK A63	
T90-HA10-IR25-01	HSK A100	

I SYSTEM IR25 TOOLING KIT - IR25 BASE INCH

Order Number	SHANK	Qty
T90-BT30-IR25A01	BT30	
T90-BT40-IR25A01	BT40	
T90-BT50-IR25A01	BT50	
T90-CA40-IR25-01	CAT40	
T90-CA50-IR25-01	CAT50	
T90-HA63-IR25A01	HSK A63	
T90-HA10-IR25A01	HSK A100	

IPE SYSTEM IR25 TOOLING KIT - IR25 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT30-IR25-01	PBBT30	
T90-PBBT40-IR25-01	PBBT40	
T90-PBBT50-IR25-01	PBBT50	
T90-PBSK40-IR25-01	PBSK40	
T90-PBSK50-IR25-01	PBSK50	

IPE SYSTEM IR25 TOOLING KIT - IR25 BASE INCH

Order Number	SHANK	Qty
T90-PBBT30-IR25A01	PBBT30	
T90-PBBT40-IR25A01	PBBT40	
T90-PBBT50-IR25A01	PBBT50	
T90-PBCA40-IR25-01	PBCAT40	
T90-PBCA50-IR25-01	PBCAT50	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A926-25100	IR25-IR25-100-EX	IR25	IR25	100	1

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A926A25102	IR25-IR25-4"-EX	IR25	IR25	4.00"	1

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A020-16100	IR25-ER16-100	IR25	ER16	100	1
T12ER25A020-20100	IR25-ER20-100	IR25	ER20	100	1
T12ER25A020-25060	IR25-ER25-060	IR25	ER25	60	1
T12ER25A020-25100	IR25-ER25-100	IR25	ER25	100	1

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A020-16100	IR25-ER16-100	IR25	ER16	3.94"	1
T12ER25A020-20100	IR25-ER20-100	IR25	ER20	3.94"	1
T12ER25A020A25051	IR25-ER25-2.0"	IR25	ER25	2.00"	1
T12ER25A020A25102	IR25-ER25-4.0"	IR25	ER25	4.00"	1

TOOLING KIT - T90

ORDER No T90-XXXX-IR32-01

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 3x ER COLLET CHUCK EXTENSION



I SYSTEM IR32 TOOLING KIT - IR32 BASE METRIC

Order Number	SHANK	Qty
T90-BT30-IR32-01	BT30	
T90-BT40-IR32-01	BT40	
T90-BT50-IR32-01	BT50	
T90-SK40-IR32-01	SK40	
T90-SK50-IR32-01	SK50	
T90-HA63-IR32-01	HSK A63	
T90-HA10-IR32-01	HSK A100	

I SYSTEM IR32 TOOLING KIT - IR32 BASE INCH

Order Number	SHANK	Qty
T90-BT30-IR32A01	BT30	
T90-BT40-IR32A01	BT40	
T90-BT50-IR32A01	BT50	
T90-CA40-IR32-01	CAT40	
T90-CA50-IR32-01	CAT50	
T90-HA63-IR32A01	HSK A63	
T90-HA10-IR32A01	HSK A100	

IPE SYSTEM IR32 TOOLING KIT - IR32 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT30-IR32-01	PBBT30	
T90-PBBT40-IR32-01	PBBT40	
T90-PBBT50-IR32-01	PBBT50	
T90-PBSK40-IR32-01	PBSK40	
T90-PBSK50-IR32-01	PBSK50	

IPE SYSTEM IR32 TOOLING KIT - IR32 BASE INCH

Order Number	SHANK	Qty
T90-PBBT30-IR32A01	PBBT30	
T90-PBBT40-IR32A01	PBBT40	
T90-PBBT50-IR32A01	PBBT50	
T90-PBCA40-IR32-01	PBCAT40	
T90-PBCA50-IR32-01	PBCAT50	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER32A926-32100	IR32-IR32-100-EX	IR32	IR32	100	1

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER32A926A32102	IR32-IR32-4"-EX	IR32	IR32	4.00"	1

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER32A020-16100	IR32-ER16-100	IR32	ER16	100	1
T12ER32A020-32100	IR32-ER32-100	IR32	ER32	100	1
T12ER32A020-32060	IR32-ER32-060	IR32	ER32	60	1

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER32A020-16100	IR32-ER16-100	IR32	ER16	3.94"	1
T12ER32A020-32102	IR32-ER32-4"	IR32	ER32	4.00"	1
T12ER32A020A32051	IR32-ER32-2.0"	IR32	ER32	2.00"	1

TOOLING KIT - T90

ORDER No T90-XXXX-IR40-01

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 3x ER COLLET CHUCK EXTENSION



I SYSTEM IR40 TOOLING KIT - IR40 BASE METRIC

Order Number	SHANK	Qty
T90-BT40-IR40-01	BT40	
T90-BT50-IR40-01	BT50	
T90-SK40-IR40-01	SK40	
T90-SK50-IR40-01	SK50	
T90-HA63-IR40-01	HSK A63	
T90-HA10-IR40-01	HSK A100	

I SYSTEM IR40 TOOLING KIT - IR40 BASE INCH

Order Number	SHANK	Qty
T90-BT40-IR40A01	BT40	
T90-BT50-IR40A01	BT50	
T90-CA40-IR40-01	CAT40	
T90-CA50-IR40-01	CAT50	
T90-HA63-IR40A01	HSK A63	
T90-HA10-IR40A01	HSK A100	

IPE SYSTEM IR40 TOOLING KIT - IR40 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT40-IR40-01	PBBT40	
T90-PBBT50-IR40-01	PBBT50	
T90-PBSK40-IR40-01	PBSK40	
T90-PBSK50-IR40-01	PBSK50	

IPE SYSTEM IR40 TOOLING KIT - IR40 BASE INCH

Order Number	SHANK	Qty
T90-PBBT40-IR40A01	PBBT40	
T90-PBBT50-IR40A01	PBBT50	
T90-PBCA40-IR40-01	PBCAT40	
T90-PBCA50-IR40-01	PBCAT50	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER40A926-40100	IR40-IR40-100-EX	IR40	IR40	100	1

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER40A926A40102	IR40-IR40-4"-EX	IR40	IR40	4.00"	1

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER40A020-25100	IR40-ER25-100	IR40	ER25	100	1
T12ER40A020-32100	IR40-ER32-100	IR40	ER32	100	1
T12ER40A020-40060	IR40-ER40-060	IR40	ER40	60	1

ER COLLET CHUCK INCH - 020

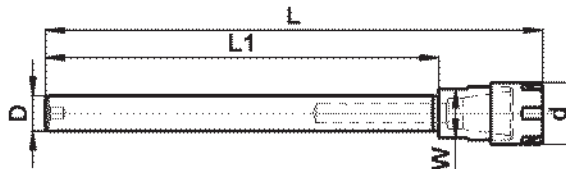
Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER40A020-25100	IR40-ER25-100	IR40	ER25	3.94"	1
T12ER40A020-32100	IR40-ER32-100	IR40	ER32	3.94"	1
T12ER40A020A40051	IR40-ER40-2.0"	IR40	ER40	2.00"	1



T14 EXTENSION

Quality

- Cylinderness : 0.005mm (0.0002")
- Case hardness: HRC 56±2
- Seat runout: 0.005mm (0.0002")
- w/ high-balanced nut



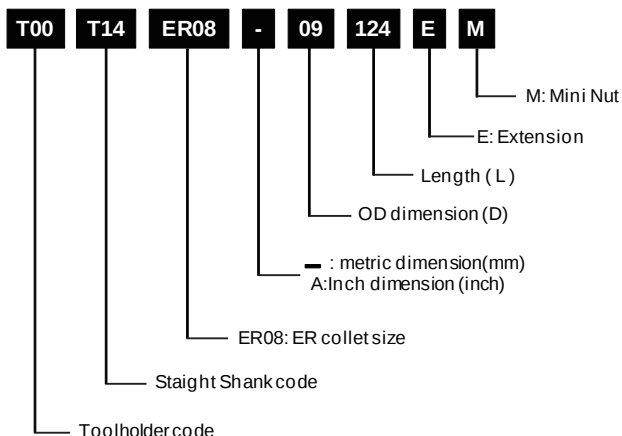
ER COLLET CHUCK *MINI NUT* METRIC

Order Number	Part Name	Collet	Length	D	d	L	L1	W	Nut
T00T14ER08-08045EM	ER08M 08x021	ER08	45	8	12	45	21	10	Mini
T00T14ER08-08104EM	ER08M 08x080	ER08	104	8	12	104	80	10	Mini
T00T14ER08-10124EM	ER08M 10x100	ER08	124	10	12	124	100	10	Mini
T00T14ER11-12166EM	ER11M 12x140	ER11	166	12	16	166	140	14	Mini
T00T14ER11-16161EM	ER11M 16x140	ER11	161	16	16	161	140	14	Mini
T00T14ER16-12118EM	ER16M 12x080	ER16	118	12	22	118	80	17	Mini
T00T14ER16-16138EM	ER16M 16x100	ER16	138	16	22	138	100	17	Mini
T00T14ER16-20166EM	ER16M 20x140	ER16	166	20	22	166	140	19	Mini
T00T14ER20-16142EM	ER20M 16x100	ER20	142	16	28	142	100	22	Mini
T00T14ER20-25165EM	ER20M 25x140	ER20	165	25	28	165	140	22	Mini

ER COLLET CHUCK *MINI NUT* INCH

Order Number	Part Name	Collet	Length	D	d	L	L1	W	Nut
T00T14ER08A09124EM	ER08M 3/8"x3.94"	ER08	4.88"	3/8"	0.473"	4.88"	3.94"	3/8"	Mini
T00T14ER11A12166EM	ER11M 1/2"x5.52"	ER11	6.54"	1/2"	0.63"	6.54"	5.51"	9/16"	Mini
T00T14ER11A16158EM	ER11M 5/8"x5.52"	ER11	6.22"	5/8"	0.63"	6.22"	5.51"	9/16"	Mini
T00T14ER16A12177EM	ER16M 1/2"x5.52"	ER16	6.97"	1/2"	0.87"	6.97"	5.51"	11/16"	Mini
T00T14ER16A19165EM	ER16M 3/4"x5.52"	ER16	6.50"	3/4"	0.87"	6.5"	5.51"	11/16"	Mini
T00T14ER20A25168EM	ER20M 1"x5.52"	ER20	6.61"	1"	1.10"	6.61"	5.51"	7/8"	Mini

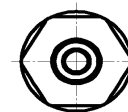
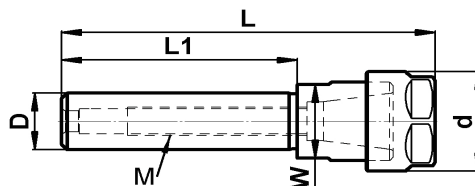
Order Number Instruction



ER COLLET CHUCK - T14

Quality

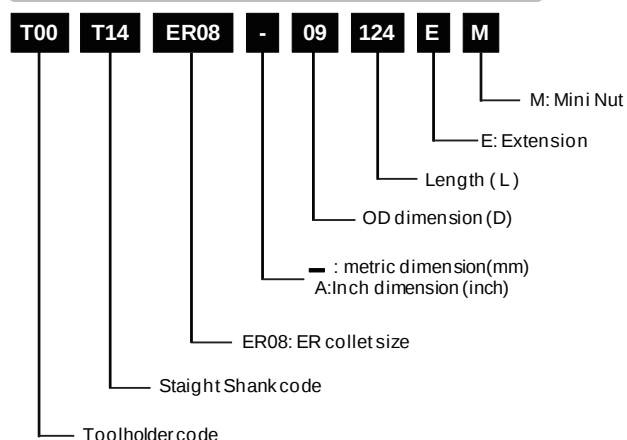
- Cylinderness : 0.005mm (0.0002")
- Case hardened hardness: HRC 56±2
- Seat runout: 0.005mm (0.0002")
- w/ high-balanced nut


ER COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	D	d	L	L1	M	W	Nut
T00T14ER11-12134E	ER11 12x100	ER11	134	12	19	134	100	X	17	Hex
T00T14ER11-16174E	ER11 16x140	ER11	174	16	19	174	140	X	17	Hex
T00T14ER16-16096E	ER16 16x060	ER16	96	16	28	96	60	M8	19	Hex
T00T14ER16-20080E	ER16 20x050	ER16	80	20	28	80	50	M12	19	Hex
T00T14ER16-20130E	ER16 20x100	ER16	130	20	28	130	100	M12	19	Hex
T00T14ER16-20190E	ER16 20x160	ER16	190	20	28	190	160	M12	19	Hex
T00T14ER20-20096E	ER20 20x060	ER20	96	20	34	96	60	M12	22	Hex
T00T14ER20-20136E	ER20 20x100	ER20	136	20	34	136	100	M12	22	Hex
T00T14ER32-20104E	ER32 20x050	ER32	104	20	50	104	50	M12	36	Hex
T00T14ER32-20154E	ER32 20x100	ER32	154	20	50	154	100	M12	36	Hex
T00T14ER32-25154E	ER32 25x100	ER32	154	25	50	154	100	M18	36	Hex
T00T14ER40-25097E	ER40 25x050	ER40	97	25	50	97	50	M18	45	Hex

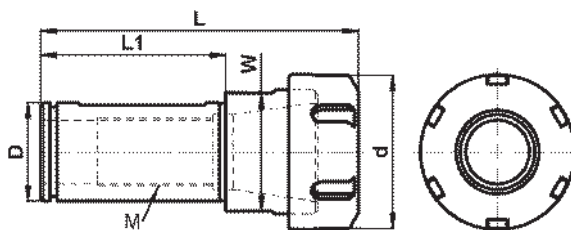
ER COLLET CHUCK INCH

Order Number	Part Name	Collet	Length	D	d	L	L1	M	W	Nut
T00T14ER11A12174E	ER11 1/2"x5.52"	ER11	6.85"	1/2"	0.75"	6.85"	5.52"	X	9/16"	Hex
T00T14ER11A16174E	ER11 5/8"x5.52"	ER11	6.85"	5/8"	0.75"	6.85"	5.52"	X	11/16"	Hex
T00T14ER16A16095E	ER16 5/8"x2.36"	ER16	3.74"	5/8"	1.10"	3.74"	2.36"	5/16"-24	13/16"	Hex
T00T14ER16A19085E	ER16 3/4"x1.97"	ER16	3.35"	3/4"	1.10"	3.35"	1.97"	7/16"-20	13/16"	Hex
T00T14ER16A19135E	ER16 3/4"x3.94"	ER16	5.32"	3/4"	1.10"	5.32"	3.94"	7/16"-20	13/16"	Hex
T00T14ER16A19175E	ER16 3/4"x5.52"	ER16	6.89"	3/4"	1.10"	6.89"	5.52"	7/16"-20	13/16"	Hex
T00T14ER20A19100E	ER20 3/4"x2.5"	ER20	3.94"	3/4"	1.34"	3.94"	2.50"	7/16"-20	15/16"	Hex
T00T14ER20A25180E	ER20 1"x5.52"	ER20	7.09"	1"	1.34"	7.09"	5.52"	9/16"-18	15/16"	Hex
T00T14ER25A25101E	ER25 1"x1.97"	ER25	3.98"	1"	1.65"	3.98"	1.97"	11/16"-16	1-1/2"	Spanner
T00T14ER32A25101E	ER32 1"x1.97"	ER32	3.98"	1"	1.97"	3.98"	1.97"	11/16"-16	1-1/2"	Spanner
T00T14ER32A32111E	ER32 1-1/4"x2.36"	ER32	4.37"	1-1/4"	1.97"	4.37"	2.36"	15/16"-16	1-1/2"	Spanner
T00T14ER40A25125E	ER40 1"x1.97"	ER40	4.92"	1"	2.48"	4.92"	1.97"	11/16"-16	1-7/8"	Spanner

Order Number Instruction


Quality

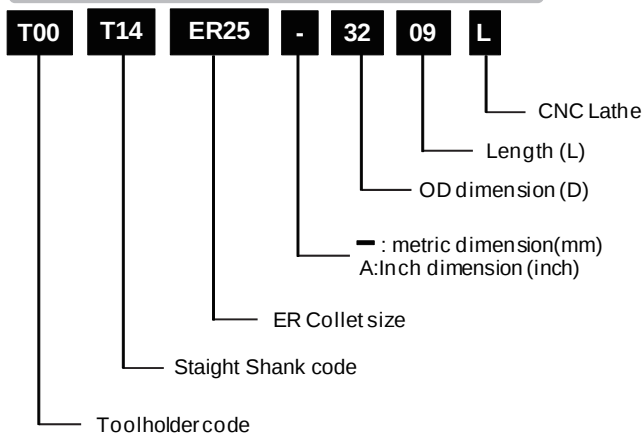
- Cylinderness : 0.005mm (0.0002")
- Case hardness: HRC 56±2
- Seat runout: 0.005mm (0.0002")
- w/ high-balanced nut

**ER COLLET CHUCK MINI NUT METRIC**

Order Number	Part Name	Collet	Length	D	d	L	L1	M	W	Nut
T00T14ER25-32092L	ER25 32x60	ER25	92	32	42	92	60	M18	27	Spanner
T00T14ER32-32098L	ER32 32x60	ER32	98	32	50	98	60	M24	36	Spanner
T00T14ER32-40113L	ER32 40x80	ER32	113	40	50	113	80	M24	36	Spanner
T00T14ER40-40130L	ER40 40x75	ER40	130	40	63	130	75	M28	36	Spanner

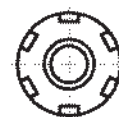
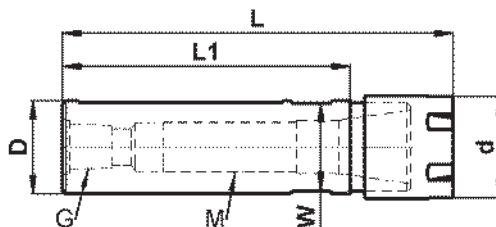
ER COLLET CHUCK MINI NUT INCH

Order Number	Part Name	Collet	Length	D	d	L	L1	M	W	Nut
T00T14ER25A32097L	ER25 1-1/4"x2.36"	ER25	3.82"	1-1/4"	1.65"	3.82"	2.36"	11/16"-16	1-1/8"	Spanner
T00T14ER32A32103L	ER32 1-1/4"x2.36"	ER32	4.06"	1-1/4"	1.97"	4.06"	2.36"	15/16"-16	1-1/2"	Spanner
T00T14ER32A38118L	ER32 1-1/2"x3.15"	ER32	4.65"	1-1/2"	1.97"	4.65"	3.15"	15/16"-16	1-1/2"	Spanner
T00T14ER40A32120L	ER40 1-1/4"x2.36"	ER40	4.72"	1-1/4"	2.48"	4.72"	2.36"	15/16"-16	1-7/8"	Spanner
T00T14ER40A38135L	ER40 1-1/2"x2.95"	ER40	5.31"	1-1/2"	2.48"	5.31"	2.95"	1-1/8"-16	1-7/8"	Spanner

Order Number Instruction

Quality

- Cylinderness : 0.005mm (0.0002")
- Case hardened hardness: HRC 56±2
- Seat runout: 0.005mm (0.0002")
- w/ high-balanced nut



ER COLLET CHUCK CNC LATHE - PIPE THREAD - COOLANT THRU - METRIC

Order Number	Part Name	Collet	Length	D	d	L	L1	G	M	W	Nut
T00T14ER11-16059FM	ER11M 16x38	ER11	59	16	16	59	38	1/4"	M8	14	Mini
T00T14ER11-16161FM	ER11M 16x140	ER11	161	16	16	161	140	1/4"	M8	14	Mini
T00T14ER16-16096FM	ER16M 16x70	ER16	96	16	22	96	70	1/4"	M8	17	Mini
T00T14ER16-20096FM	ER16M 20x70	ER16	96	20	22	96	70	1/4"	M12	17	Mini
T00T14ER16-20126FM	ER16M 20x100	ER16	126	20	22	126	100	1/4"	M12	17	Mini
T00T14ER16-20166FM	ER16M 20x140	ER16	166	20	22	166	140	1/4"	M12	17	Mini
T00T14ER16-22096FM	ER16M 22x70	ER16	96	22	22	96	70	1/4"	M12	19	Mini
T00T14ER20-22108FM	ER20M 22x80	ER20	108	22	28	108	80	1/4"	M12	19	Mini
T00T14ER20-25128FM	ER20M 25x100	ER20	128	25	28	128	100	1/4"	M14	22	Mini
T00T14ER20-25178FM	ER20M 25x150	ER20	178	25	28	178	150	1/4"	M14	22	Mini
T00T14ER32-32115F	ER32 32x60	ER32	115	32	50	115	60	1/4"	M24	38	Spanner

ER COLLET CHUCK CNC LATHE - PIPE THREAD - COOLANT THRU - INCH

Order Number	Part Name	Collet	Length	D	d	L	L1	G	M	W	Nut
T00T14ER16A19110FM	ER16M 3/4"x3.42"	ER16	4.19"	3/4"	0.87"	4.19"	3.42"	1/4"	7/16"-20	11/16"	Mini
T00T14ER20A25111FM	ER20M 1"x3.31"	ER20	4.18"	1"	1.10"	4.18"	3.31"	1/4"	9/16"-18	15/16"	Mini
T00T14ER32A32115F	ER32 1-1/4"x2.36"	ER32	4.33"	1-1/4"	1.97"	4.33"	2.36"	1/4"	15/16"-16	1-1/2"	Spanner

Order Number Instruction

T00	T14	ER11	-	20	060	F	M
Toolholdercode	Straight Shank code	ER11: ER collet size		— : metric dimension(mm) A: Inch dimension (inch)	OD dimension (D)	Length (L)	M: Mini Nut code F: Flat code



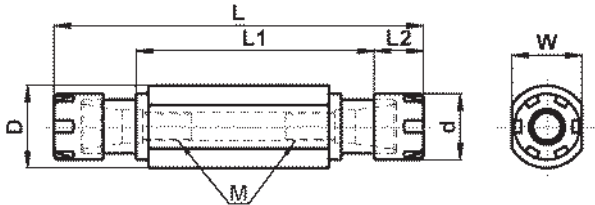
STRAIGHT SHANK EXTENSION

ER COLLET CHUCK DOUBLE END - T14

STRAIGHT SHANK
EXTENSION
ER COLLET CHUCK
T14
CNC LATHE - DOUBLE END

Quality

- Cylinderess : 0.005mm (0.0002")
- Case hardness: HRC 56±2
- Seat runout: 0.005mm (0.0002")
- w/ high-balanced nut



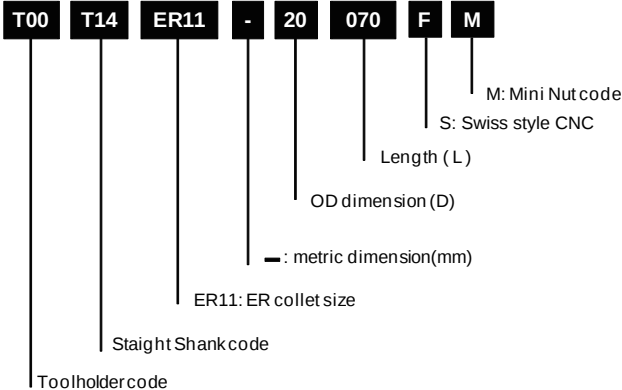
ER COLLET CHUCK DOUBLE END - SWISS CNC MACHINES METRIC

Order Number	Part Name	Collet	Length	D	d	L	L1	M	W	Nut
T00T14ER11-20070SM	ER11M 20x30	ER11	70	20	16	70	30	M8	17	Mini
T00T14ER11-20090SM	ER11M 20x50	ER11	90	20	16	90	50	M8	17	Mini
T00T14ER16-20107SM	ER16M 20x55	ER16	107	20	22	107	55	M12	17	Mini
T00T14ER16-22111SM	ER16M 22x55	ER16	111	22	22	111	55	M12	19	Mini
T00T14ER16-22131SM	ER16M 22x75	ER16	131	22	22	131	75	M12	19	Mini

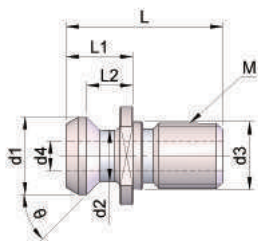
ER COLLET CHUCK DOUBLE END - SWISS CNC MACHINES INCH

Order Number	Part Name	Collet	Length	D	d	L	L1	M	W	Nut
T00T14ER11A19078SM	ER11M 3/4"x1.73"	ER11	3.06"	3/4"	0.63"	3.06"	1.73"	M8	17	Mini
T00T14ER11A19099SM	ER11M 3/4"x2.56"	ER11	3.88"	3/4"	0.63"	3.88"	2.56"	M8	17	Mini
T00T14ER11A19111SM	ER11M 3/4"x3.03"	ER11	4.35"	3/4"	0.63"	4.35"	3.03"	M8	17	Mini
T00T14ER11A19133SM	ER11M 3/4"x3.92"	ER11	5.24"	3/4"	0.63"	5.24"	3.92"	M8	17	Mini

Order Number Instruction



RETENTION KNOBS - T05

CAT Retention Knobs
ANSI B 5.5BT Retention Knobs
w/ CAT Shank thread

HIGHEST PRECISION WITH GROUND

CAT RETENTION KNOBS GROUND - COOLANT HOLE - ANSI B5.5

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05CA40B45-G	CAT40°45°W, G	45	1.500"	0.640"	0.440"	0.740"	0.490"	x	0.280"	5/8"-11
T05CA50B45-G	CAT50°45°W, G	45	2.300"	1.000"	0.700"	1.140"	0.820"	x	0.460"	1"-8

CAT RETENTION KNOBS GROUND - COOLANT HOLE - Mazak

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05CA40B45-MA-G	CAT40°45°W, Mazak, G	45	1.500"	0.640"	0.440"	0.740"	0.490"	0.641"	0.280"	5/8"-11
T05CA50B45-MA-G	CAT50°45°W, Mazak, G	45	2.300"	1.000"	0.700"	1.140"	0.820"	1.031"	0.394"	1"-8

CAT RETENTION KNOBS GROUND - COOLANT HOLE - Haas

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05CA40B45-HA-G	CAT40°45°W, Haas, G	45	2.250"	1.266"	0.990"	0.591"	0.393"	0.630"	0.160"	5/8"-11
T05CA50B45-HA-G	CAT50°45°W, Haas, G	45	3.346"	1.772"	1.378"	0.906"	0.669"	0.827"	0.280"	1"-8

CAT RETENTION KNOBS GROUND - COOLANT HOLE - Makino

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05CA40B75-MI-G	CAT40°75°W, Makino, G	75	1.887"	1.029"	0.793"	0.748"	0.551"	x	0.276"	5/8"-11

CAT RETENTION KNOBS GROUND - COOLANT HOLE and O-ring - DMG MORI

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05CA40B75-MO-G	CAT40°75°W, Mori, G	75	1.887"	1.029"	0.793"	0.748"	0.551"	x	0.276"	5/8"-11
T05CA50B75-MO-G	CAT50°75°W, Mori, G	75	2.919"	1.344"	0.990"	1.102"	0.826"	1.031"	0.452"	1"-8
T05CA50B90-MO-G	CAT50°90°W, Mori, G	90	3.350"	1.772"	1.386"	0.906"	0.669"	1.031"	0.276"	1"-8

BT RETENTION KNOBS with CAT Shank thread

BT RETENTION KNOBS GROUND - CAT Shank thread - wo/Coolant hole

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05BT40A45-CA-G	BT40°45°- CAT, G	45	2.250"	1.266"	0.990"	0.591"	0.394"	x	x	5/8"-11
T05BT40A90-CA-G	BT40°90°- CAT, G	90	2.250"	1.266"	0.990"	0.591"	0.394"	x	x	5/8"-11
T05BT50A45-CA-G	BT50°45°- CAT, G	45	3.094"	1.772"	1.386"	0.906"	0.669"	x	x	1"-8

BT RETENTION KNOBS GROUND - CAT Shank thread - Coolant hole and Double O-ring for high-pressure coolant

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05BT40B45DCA-G	BT40°45°W- CAT, DS, G	45	2.250"	1.266"	0.990"	0.590"	0.394"	x	0.120"	5/8"-11
T05BT50B45DCA-G	BT50°45°W- CAT, DS, G	45	3.094"	1.772"	1.386"	0.906"	0.669"	x	0.276"	1"-8

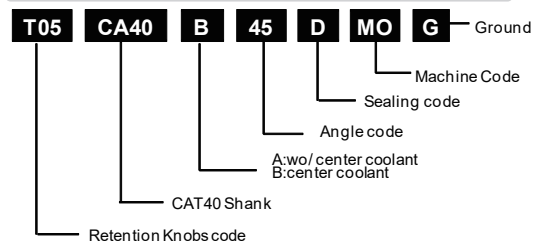
BT RETENTION KNOBS GROUND - CAT Shank thread - Coolant hole and Double O-ring for high-pressure coolant - Kia-Toyoda

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05BT40B45DCA-KT-G	BT40°45°W- CAT, DS, G, KT	45	2.250"	1.266"	0.990"	0.591"	0.394"	0.641"	0.120"	5/8"-11

Note: Please see catalogue Page4 before using

RETENTION KNOBS - T05

Order Number Instruction



ER COLLET - T03

A CLASS



ER08 COLLET METRIC		Clamping Range	
Order Number	Part Name	Metric	Inch
T03ERB8-030A	Collet ER8-03	3.0~2.5	0.1181~0.0984"
T03ERB8-035A	Collet ER8-035	3.5~3.0	0.1400~0.1181"
T03ERB8-040A	Collet ER8-04	4.0~3.5	0.1575~0.1400"
T03ERB8-045A	Collet ER8-045	4.5~4.0	0.1800~0.1575"
T03ERB8-050A	Collet ER8-05	5.0~4.5	0.1969~0.1800"

ER11 COLLET METRIC		Clamping Range	
Order Number	Part Name	Metric	Inch
T03ERB11-030A	Collet ER11-03	3.0~2.0	0.1181~0.0787"
T03ERB11-040A	Collet ER11-04	4.0~3.0	0.1575~0.1181"
T03ERB11-050A	Collet ER11-05	5.0~4.0	0.1969~0.1575"
T03ERB11-060A	Collet ER11-06	6.0~5.0	0.2362~0.1969"
T03ERB11-070A	Collet ER11-07	7.0~6.0	0.2756~0.2362"

ER16 COLLET METRIC		Clamping Range	
Order Number	Part Name	Metric	Inch
T03ERB16-030A	Collet ER16-03	3.0~2.0	0.1181~0.0787"
T03ERB16-040A	Collet ER16-04	4.0~3.0	0.1575~0.1181"
T03ERB16-050A	Collet ER16-05	5.0~4.0	0.1969~0.1575"
T03ERB16-060A	Collet ER16-06	6.0~5.0	0.2362~0.1969"
T03ERB16-070A	Collet ER16-07	7.0~6.0	0.2756~0.2362"
T03ERB16-080A	Collet ER16-08	8.0~7.0	0.3150~0.2756"
T03ERB16-090A	Collet ER16-09	9.0~8.0	0.3543~0.3150"
T03ERB16-100A	Collet ER16-10	10.0~9.0	0.3937~0.3543"

ER20 COLLET METRIC		Clamping Range	
Order Number	Part Name	Metric	Inch
T03ERB20-030A	Collet ER20-03	3.0~2.0	0.1181~0.0787"
T03ERB20-040A	Collet ER20-04	4.0~3.0	0.1575~0.1181"
T03ERB20-050A	Collet ER20-05	5.0~4.0	0.1969~0.1575"
T03ERB20-060A	Collet ER20-06	6.0~5.0	0.2362~0.1969"
T03ERB20-070A	Collet ER20-07	7.0~6.0	0.2756~0.2362"
T03ERB20-080A	Collet ER20-08	8.0~7.0	0.3150~0.2756"
T03ERB20-090A	Collet ER20-09	9.0~8.0	0.3543~0.3150"
T03ERB20-100A	Collet ER20-10	10.0~9.0	0.3937~0.3543"
T03ERB20-110A	Collet ER20-11	11.0~10.0	0.4330~0.3937"
T03ERB20-120A	Collet ER20-12	12.0~11.0	0.4724~0.4330"
T03ERB20-130A	Collet ER20-13	13.0~12.0	0.5118~0.4724"

ER25 COLLET METRIC		Clamping Range	
Order Number	Part Name	Metric	Inch
T03ERB25-030A	Collet ER25-03	3.0~2.0	0.1181~0.0787"
T03ERB25-040A	Collet ER25-04	4.0~3.0	0.1575~0.1181"
T03ERB25-050A	Collet ER25-05	5.0~4.0	0.1969~0.1575"
T03ERB25-060A	Collet ER25-06	6.0~5.0	0.2362~0.1969"
T03ERB25-070A	Collet ER25-07	7.0~6.0	0.2756~0.2362"
T03ERB25-080A	Collet ER25-08	8.0~7.0	0.3150~0.2756"
T03ERB25-090A	Collet ER25-09	9.0~8.0	0.3543~0.3150"
T03ERB25-100A	Collet ER25-10	10.0~9.0	0.3937~0.3543"
T03ERB25-110A	Collet ER25-11	11.0~10.0	0.4330~0.3937"
T03ERB25-120A	Collet ER25-12	12.0~11.0	0.4724~0.4330"
T03ERB25-130A	Collet ER25-13	13.0~12.0	0.5118~0.4724"
T03ERB25-140A	Collet ER25-14	14.0~13.0	0.5512~0.5118"
T03ERB25-150A	Collet ER25-15	15.0~14.0	0.5905~0.5512"
T03ERB25-160A	Collet ER25-16	16.0~15.0	0.6300~0.5905"

ER8 COLLET INCH		Clamping Range
Order Number	Part Name	
T03ERB8A031A	Collet ER8-1/8"	7/64~1/8"
T03ERB8A040A	Collet ER8-5/32"	9/64~5/32"
T03ERB8A047A	Collet ER8-3/16"	5/32~3/16"

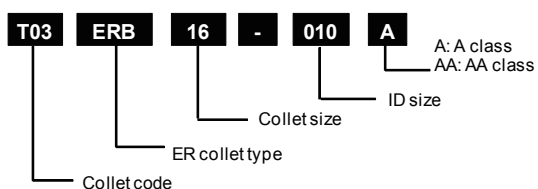
ER11 COLLET INCH		Clamping Range
Order Number	Part Name	
T03ERB11A031A	Collet ER11-1/8"	5/64~1/8"
T03ERB11A040A	Collet ER11-5/32"	1/8~5/32"
T03ERB11A047A	Collet ER11-3/16"	5/32~3/16"
T03ERB11A055A	Collet ER11-7/32"	3/16~7/32"
T03ERB11A063A	Collet ER11-1/4"	7/32~1/4"

ER16 COLLET INCH		Clamping Range
Order Number	Part Name	
T03ERB16A031A	Collet ER16-1/8"	5/64~1/8"
T03ERB16A040A	Collet ER16-5/32"	1/8~5/32"
T03ERB16A047A	Collet ER16-3/16"	5/32~3/16"
T03ERB16A055A	Collet ER16-7/32"	3/16~7/32"
T03ERB16A063A	Collet ER16-1/4"	7/32~1/4"
T03ERB16A071A	Collet ER16-9/32"	1/4~9/32"
T03ERB16A079A	Collet ER16-5/16"	9/32~5/16"
T03ERB16A087A	Collet ER16-11/32"	5/16~11/32"
T03ERB16A095A	Collet ER16-3/8"	11/32~3/8"
T03ERB16A103A	Collet ER16-13/32"	3/8~13/32"

ER20 COLLET INCH		Clamping Range
Order Number	Part Name	
T03ERB20A031A	Collet ER20-1/8"	5/64~1/8"
T03ERB20A040A	Collet ER20-5/32"	1/8~5/32"
T03ERB20A047A	Collet ER20-3/16"	5/32~3/16"
T03ERB20A055A	Collet ER20-7/32"	3/16~7/32"
T03ERB20A063A	Collet ER20-1/4"	3/16~1/4"
T03ERB20A071A	Collet ER20-9/32"	1/4~9/32"
T03ERB20A079A	Collet ER20-5/16"	9/32~5/16"
T03ERB20A087A	Collet ER20-11/32"	5/16~11/32"
T03ERB20A095A	Collet ER20-3/8"	11/32~3/8"
T03ERB20A103A	Collet ER20-13/32"	11/32~13/32"
T03ERB20A111A	Collet ER20-7/16"	13/32~7/16"
T03ERB20A119A	Collet ER20-15/32"	7/16~15/32"
T03ERB20A127A	Collet ER20-1/2"	15/32~1/2"

ER25 COLLET INCH		Clamping Range
Order Number	Part Name	
T03ERB25A031A	Collet ER25-1/8"	5/64~1/8"
T03ERB25A040A	Collet ER25-5/32"	1/8~5/32"
T03ERB25A047A	Collet ER25-3/16"	5/32~3/16"
T03ERB25A055A	Collet ER25-7/32"	3/16~7/32"
T03ERB25A063A	Collet ER25-1/4"	3/16~1/4"
T03ERB25A071A	Collet ER25-9/32"	1/4~9/32"
T03ERB25A079A	Collet ER25-5/16"	9/32~5/16"
T03ERB25A087A	Collet ER25-11/32"	5/16~11/32"
T03ERB25A095A	Collet ER25-3/8"	11/32~3/8"
T03ERB25A103A	Collet ER25-13/32"	11/32~13/32"
T03ERB25A111A	Collet ER25-7/16"	13/32~7/16"
T03ERB25A119A	Collet ER25-15/32"	7/16~15/32"
T03ERB25A127A	Collet ER25-1/2"	15/32~1/2"
T03ERB25A135A	Collet ER25-17/32"	1/2~17/32"

ER40 COLLET INCH		
Order Number	Part Name	Clamping Range
T03ERB40A031A	Collet ER40-1/8"	5/64~1/8"
T03ERB40A040A	Collet ER40-5/32"	1/8-5/32"
T03ERB40A047A	Collet ER40-3/16"	5/32~3/16"
T03ERB40A055A	Collet ER40-7/32"	3/16~7/32"
T03ERB40A063A	Collet ER40-1/4"	3/16~1/4"
T03ERB40A071A	Collet ER40-9/32"	1/4~9/32"
T03ERB40A079A	Collet ER40-5/16"	9/32~5/16"
T03ERB40A087A	Collet ER40-11/32"	5/16~11/32"
T03ERB40A095A	Collet ER40-3/8"	11/32~3/8"
T03ERB40A103A	Collet ER40-13/32"	11/32~13/32"
T03ERB40A111A	Collet ER40-7/16"	13/32~7/16"
T03ERB40A119A	Collet ER40-15/32"	7/16~15/32"
T03ERB40A127A	Collet ER40-1/2"	15/32~1/2"
T03ERB40A135A	Collet ER40-17/32"	1/2~17/32"
T03ERB40A142A	Collet ER40-9/16"	17/32~9/16"
T03ERB40A150A	Collet ER40-19/32"	9/16~19/32"
T03ERB40A158A	Collet ER40-5/8"	19/32~5/8"
T03ERB40A166A	Collet ER40-21/32"	5/8~21/32"
T03ERB40A174A	Collet ER40-11/16"	21/32~11/16"
T03ERB40A182A	Collet ER40-23/32"	11/16~23/32"
T03ERB40A190A	Collet ER40-3/4"	23/32~3/4"
T03ERB40A198A	Collet ER40-25/32"	3/4~25/32"
T03ERB40A206A	Collet ER40-13/16"	25/32~13/16"
T03ERB40A214A	Collet ER40-27/32"	13/16~27/32"
T03ERB40A222A	Collet ER40-7/8"	27/32~7/8"
T03ERB40A230A	Collet ER40-29/32"	7/8~29/32"
T03ERB40A238A	Collet ER40-15/16"	29/32~15/16"
T03ERB40A246A	Collet ER40-31/32"	15/16~31/32"
T03FRB40A254A	Collet ER40-1"	31/32~1"



ER COLLET - T03



ER08 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB8-030AA	Collet ER8-03AA	3.0~2.5	0.1181~0.0984"
T03ERB8-035AA	Collet ER8-035AA	3.5~3.0	0.1400~0.1181"
T03ERB8-040AA	Collet ER8-04AA	4.0~3.5	0.1575~0.1400"
T03ERB8-045AA	Collet ER8-045AA	4.5~4.0	0.1800~0.1575"
T03ERB8-050AA	Collet ER8-05AA	5.0~4.5	0.1969~0.1800"

ER11 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB11-030AA	Collet ER11-03AA	3.0~2.0	0.1181~0.0787"
T03ERB11-040AA	Collet ER11-04AA	4.0~3.0	0.1575~0.1181"
T03ERB11-050AA	Collet ER11-05AA	5.0~4.0	0.1969~0.1575"
T03ERB11-060AA	Collet ER11-06AA	6.0~5.0	0.2362~0.1969"
T03ERB11-070AA	Collet ER11-07AA	7.0~6.0	0.2756~0.2362"

ER16 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB16-030AA	Collet ER16-03AA	3.0~2.0	0.1181~0.0787"
T03ERB16-040AA	Collet ER16-04AA	4.0~3.0	0.1575~0.1181"
T03ERB16-050AA	Collet ER16-05AA	5.0~4.0	0.1969~0.1575"
T03ERB16-060AA	Collet ER16-06AA	6.0~5.0	0.2362~0.1969"
T03ERB16-070AA	Collet ER16-07AA	7.0~6.0	0.2756~0.2362"
T03ERB16-080AA	Collet ER16-08AA	8.0~7.0	0.3150~0.2756"
T03ERB16-090AA	Collet ER16-09AA	9.0~8.0	0.3543~0.3150"
T03ERB16-100AA	Collet ER16-10AA	10.0~9.0	0.3937~0.3543"

ER20 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB20-030AA	Collet ER20-03AA	3.0~2.0	0.1181~0.0787"
T03ERB20-040AA	Collet ER20-04AA	4.0~3.0	0.1575~0.1181"
T03ERB20-050AA	Collet ER20-05AA	5.0~4.0	0.1969~0.1575"
T03ERB20-060AA	Collet ER20-06AA	6.0~5.0	0.2362~0.1969"
T03ERB20-070AA	Collet ER20-07AA	7.0~6.0	0.2756~0.2362"
T03ERB20-080AA	Collet ER20-08AA	8.0~7.0	0.3150~0.2756"
T03ERB20-090AA	Collet ER20-09AA	9.0~8.0	0.3543~0.3150"
T03ERB20-100AA	Collet ER20-10AA	10.0~9.0	0.3937~0.3543"
T03ERB20-110AA	Collet ER20-11AA	11.0~10.0	0.4330~0.3937"
T03ERB20-120AA	Collet ER20-12AA	12.0~11.0	0.4724~0.4330"
T03ERB20-130AA	Collet ER20-13AA	13.0~12.0	0.5118~0.4724"

ER25 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB25-030AA	Collet ER25-03AA	3.0~2.0	0.1181~0.0787"
T03ERB25-040AA	Collet ER25-04AA	4.0~3.0	0.1575~0.1181"
T03ERB25-050AA	Collet ER25-05AA	5.0~4.0	0.1969~0.1575"
T03ERB25-060AA	Collet ER25-06AA	6.0~5.0	0.2362~0.1969"
T03ERB25-070AA	Collet ER25-07AA	7.0~6.0	0.2756~0.2362"
T03ERB25-080AA	Collet ER25-08AA	8.0~7.0	0.3150~0.2756"
T03ERB25-090AA	Collet ER25-09AA	9.0~8.0	0.3543~0.3150"
T03ERB25-100AA	Collet ER25-10AA	10.0~9.0	0.3937~0.3543"
T03ERB25-110AA	Collet ER25-11AA	11.0~10.0	0.4330~0.3937"
T03ERB25-120AA	Collet ER25-12AA	12.0~11.0	0.4724~0.4330"
T03ERB25-130AA	Collet ER25-13AA	13.0~12.0	0.5118~0.4724"
T03ERB25-140AA	Collet ER25-14AA	14.0~13.0	0.5512~0.5118"
T03ERB25-150AA	Collet ER25-15AA	15.0~14.0	0.5905~0.5512"
T03ERB25-160AA	Collet ER25-16AA	16.0~15.0	0.6300~0.5905"

ER8 COLLET INCH		
Order Number	Part Name	Clamping Range
T03ERB8A031AA	Collet ER8-1/8"AA	7/64~1/8"
T03ERB8A040AA	Collet ER8-5/32"AA	9/64~5/32"
T03ERB8A047AA	Collet ER8-3/16"AA	5/32~3/16"

ER11 COLLET INCH		
Order Number	Part Name	Clamping Range
T03ERB11A031AA	Collet ER11-1/8"AA	5/64~1/8"
T03ERB11A040AA	Collet ER11-5/32"AA	1/8~5/32"
T03ERB11A047AA	Collet ER11-3/16"AA	5/32~3/16"
T03ERB11A055AA	Collet ER11-7/32"AA	3/16~7/32"
T03ERB11A063AA	Collet ER11-1/4"AA	7/32~1/4"

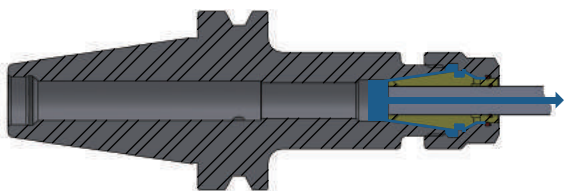
ER16 COLLET INCH		
Order Number	Part Name	Clamping Range
T03ERB16A031AA	Collet ER16-1/8"AA	5/64~1/8"
T03ERB16A040AA	Collet ER16-5/32"AA	1/8~5/32"
T03ERB16A047AA	Collet ER16-3/16"AA	5/32~3/16"
T03ERB16A055AA	Collet ER16-7/32"AA	3/16~7/32"
T03ERB16A063AA	Collet ER16-1/4"AA	7/32~1/4"
T03ERB16A071AA	Collet ER16-9/32"AA	1/4~9/32"
T03ERB16A079AA	Collet ER16-5/16"AA	9/32~5/16"
T03ERB16A087AA	Collet ER16-11/32"AA	5/16~11/32"
T03ERB16A095AA	Collet ER16-3/8"AA	11/32~3/8"
T03ERB16A103AA	Collet ER16-13/32"AA	3/8~13/32"

ER20 COLLET INCH		
Order Number	Part Name	Clamping Range
T03ERB20A031AA	Collet ER20-1/8"AA	5/64~1/8"
T03ERB20A040AA	Collet ER20-5/32"AA	1/8~5/32"
T03ERB20A047AA	Collet ER20-3/16"AA	5/32~3/16"
T03ERB20A055AA	Collet ER20-7/32"AA	3/16~7/32"
T03ERB20A063AA	Collet ER20-1/4"AA	3/16~1/4"
T03ERB20A071AA	Collet ER20-9/32"AA	1/4~9/32"
T03ERB20A079AA	Collet ER20-5/16"AA	9/32~5/16"
T03ERB20A087AA	Collet ER20-11/32"AA	5/16~11/32"
T03ERB20A095AA	Collet ER20-3/8"AA	11/32~3/8"
T03ERB20A103AA	Collet ER20-13/32"AA	11/32~13/32"
T03ERB20A111AA	Collet ER20-7/16"AA	13/32~7/16"
T03ERB20A119AA	Collet ER20-15/32"AA	7/16~15/32"
T03ERB20A127AA	Collet ER20-1/2"AA	15/32~1/2"

ER25 COLLET INCH		
Order Number	Part Name	Clamping Range
T03ERB25A031AA	Collet ER25-1/8"AA	5/64~1/8"
T03ERB25A040AA	Collet ER25-5/32"AA	1/8~5/32"
T03ERB25A047AA	Collet ER25-3/16"AA	5/32~3/16"
T03ERB25A055AA	Collet ER25-7/32"AA	3/16~7/32"
T03ERB25A063AA	Collet ER25-1/4"AA	3/16~1/4"
T03ERB25A071AA	Collet ER25-9/32"AA	1/4~9/32"
T03ERB25A079AA	Collet ER25-5/16"AA	9/32~5/16"
T03ERB25A087AA	Collet ER25-11/32"AA	5/16~11/32"
T03ERB25A095AA	Collet ER25-3/8"AA	11/32~3/8"
T03ERB25A103AA	Collet ER25-13/32"AA	11/32~13/32"
T03ERB25A111AA	Collet ER25-7/16"AA	13/32~7/16"
T03ERB25A119AA	Collet ER25-15/32"AA	7/16~15/32"
T03ERB25A127AA	Collet ER25-1/2"AA	15/32~1/2"
T03ERB25A135AA	Collet ER25-17/32"AA	1/2~17/32"

IR COLLET - T03

A CLASS



IR08 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03IRB8-030A	IR Collet IR8-030	3.0~2.5	0.1181"~0.0984"
T03IRB8-035A	IR Collet IR8-035	3.5~3.0	0.1400"~0.1181"
T03IRB8-040A	IR Collet IR8-040	4.0~3.5	0.1575"~0.1400"
T03IRB8-045A	IR Collet IR8-045	4.5~4.0	0.1800"~0.1575"
T03IRB8-050A	IR Collet IR8-050	5.0~4.5	0.1969"~0.1800"

IR11 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03IRB11-030A	IR Collet IR11-03	3.0~2.0	0.1181"~0.0787"
T03IRB11-040A	IR Collet IR11-04	4.0~3.0	0.1575"~0.1181"
T03IRB11-050A	IR Collet IR11-05	5.0~4.0	0.1969"~0.1575"
T03IRB11-060A	IR Collet IR11-06	6.0~5.0	0.2362"~0.1969"
T03IRB11-070A	IR Collet IR11-07	7.0~6.0	0.2756"~0.2362"

IR16 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03IRB16-030A	IR Collet IR16-03	3.0~2.0	0.1181"~0.0787"
T03IRB16-040A	IR Collet IR16-04	4.0~3.0	0.1575"~0.1181"
T03IRB16-050A	IR Collet IR16-05	5.0~4.0	0.1969"~0.1575"
T03IRB16-060A	IR Collet IR16-06	6.0~5.0	0.2362"~0.1969"
T03IRB16-070A	IR Collet IR16-07	7.0~6.0	0.2756"~0.2362"
T03IRB16-080A	IR Collet IR16-08	8.0~7.0	0.3150"~0.2756"
T03IRB16-090A	IR Collet IR16-09	9.0~8.0	0.3543"~0.3150"
T03IRB16-100A	IR Collet IR16-10	10.0~9.0	0.3937"~0.3543"

IR20 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03IRB20-030A	IR Collet IR20-03	3.0~2.0	0.1181"~0.0787"
T03IRB20-040A	IR Collet IR20-04	4.0~3.0	0.1575"~0.1181"
T03IRB20-050A	IR Collet IR20-05	5.0~4.0	0.1969"~0.1575"
T03IRB20-060A	IR Collet IR20-06	6.0~5.0	0.2362"~0.1969"
T03IRB20-070A	IR Collet IR20-07	7.0~6.0	0.2756"~0.2362"
T03IRB20-080A	IR Collet IR20-08	8.0~7.0	0.3150"~0.2756"
T03IRB20-090A	IR Collet IR20-09	9.0~8.0	0.3543"~0.3150"
T03IRB20-100A	IR Collet IR20-10	10.0~9.0	0.3937"~0.3543"
T03IRB20-110A	IR Collet IR20-11	11.0~10.0	0.4330"~0.3937"
T03IRB20-120A	IR Collet IR20-12	12.0~11.0	0.4724"~0.4330"
T03IRB20-130A	IR Collet IR20-13	13.0~12.0	0.5118"~0.4724"

IR25 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03IRB25-030A	IR Collet IR25-03	3.0~2.0	0.1181"~0.0787"
T03IRB25-040A	IR Collet IR25-04	4.0~3.0	0.1575"~0.1181"
T03IRB25-050A	IR Collet IR25-05	5.0~4.0	0.1969"~0.1575"
T03IRB25-060A	IR Collet IR25-06	6.0~5.0	0.2362"~0.1969"
T03IRB25-070A	IR Collet IR25-07	7.0~6.0	0.2756"~0.2362"
T03IRB25-080A	IR Collet IR25-08	8.0~7.0	0.3150"~0.2756"
T03IRB25-090A	IR Collet IR25-09	9.0~8.0	0.3543"~0.3150"
T03IRB25-100A	IR Collet IR25-10	10.0~9.0	0.3937"~0.3543"
T03IRB25-110A	IR Collet IR25-11	11.0~10.0	0.4330"~0.3937"
T03IRB25-120A	IR Collet IR25-12	12.0~11.0	0.4724"~0.4330"
T03IRB25-130A	IR Collet IR25-13	13.0~12.0	0.5118"~0.4724"
T03IRB25-140A	IR Collet IR25-14	14.0~13.0	0.5512"~0.5118"
T03IRB25-150A	IR Collet IR25-15	15.0~14.0	0.5905"~0.5512"
T03IRB25-160A	IR Collet IR25-16	16.0~15.0	0.6300"~0.5905"

IR8 COLLET INCH		
Order Number	Part Name	Clamping Range
T03IRB8A031A	IR Collet IR8-1/8"	7/64"~1/8"
T03IRB8A040A	IR Collet IR8-5/32"	9/64"~5/32"
T03IRB8A047A	IR Collet IR8-3/16"	5/32"~3/16"

IR11 COLLET INCH		
Order Number	Part Name	Clamping Range
T03IRB11A031A	IR Collet IR11-1/8"	5/64"~1/8"
T03IRB11A040A	IR Collet IR11-5/32"	1/8"~5/32"
T03IRB11A047A	IR Collet IR11-3/16"	5/32"~3/16"
T03IRB11A055A	IR Collet IR11-7/32"	3/16"~7/32"
T03IRB11A063A	IR Collet IR11-1/4"	7/32"~1/4"

IR16 COLLET INCH		
Order Number	Part Name	Clamping Range
T03IRB16A031A	IR Collet IR16-1/8"	5/64"~1/8"
T03IRB16A040A	IR Collet IR16-5/32"	1/8"~5/32"
T03IRB16A047A	IR Collet IR16-3/16"	5/32"~3/16"
T03IRB16A055A	IR Collet IR16-7/32"	3/16"~7/32"
T03IRB16A063A	IR Collet IR16-1/4"	7/32"~1/4"
T03IRB16A071A	IR Collet IR16-9/32"	1/4"~9/32"
T03IRB16A079A	IR Collet IR16-5/16"	9/32"~5/16"
T03IRB16A087A	IR Collet IR16-11/32"	5/16"~11/32"
T03IRB16A095A	IR Collet IR16-3/8"	11/32"~3/8"
T03IRB16A103A	IR Collet IR16-13/32"	3/8"~13/32"

IR20 COLLET INCH		
Order Number	Part Name	Clamping Range
T03IRB20A031A	IR Collet IR20-1/8"	5/64"~1/8"
T03IRB20A040A	IR Collet IR20-5/32"	1/8"~5/32"
T03IRB20A047A	IR Collet IR20-3/16"	5/32"~3/16"
T03IRB20A055A	IR Collet IR20-7/32"	3/16"~7/32"
T03IRB20A063A	IR Collet IR20-1/4"	3/16"~1/4"
T03IRB20A071A	IR Collet IR20-9/32"	1/4"~9/32"
T03IRB20A079A	IR Collet IR20-5/16"	9/32"~5/16"
T03IRB20A087A	IR Collet IR20-11/32"	5/16"~11/32"
T03IRB20A095A	IR Collet IR20-3/8"	11/32"~3/8"
T03IRB20A103A	IR Collet IR20-13/32"	11/32"~13/32"
T03IRB20A111A	IR Collet IR20-7/16"	13/32"~7/16"
T03IRB20A119A	IR Collet IR20-15/32"	7/16"~15/32"
T03IRB20A127A	IR Collet IR20-1/2"	15/32"~1/2"

IR25 COLLET INCH		
Order Number	Part Name	Clamping Range
T03IRB25A031A	IR Collet IR25-1/8"	5/64"~1/8"
T03IRB25A040A	IR Collet IR25-5/32"	1/8"~5/32"
T03IRB25A047A	IR Collet IR25-3/16"	5/32"~3/16"
T03IRB25A055A	IR Collet IR25-7/32"	3/16"~7/32"
T03IRB25A063A	IR Collet IR25-1/4"	3/16"~1/4"
T03IRB25A071A	IR Collet IR25-9/32"	1/4"~9/32"
T03IRB25A079A	IR Collet IR25-5/16"	9/32"~5/16"
T03IRB25A087A	IR Collet IR25-11/32"	5/16"~11/32"
T03IRB25A095A	IR Collet IR25-3/8"	11/32"~3/8"
T03IRB25A103A	IR Collet IR25-13/32"	11/32"~13/32"
T03IRB25A111A	IR Collet IR25-7/16"	13/32"~7/16"
T03IRB25A119A	IR Collet IR25-15/32"	7/16"~15/32"
T03IRB25A127A	IR Collet IR25-1/2"	15/32"~1/2"
T03IRB25A135A	IR Collet IR25-17/32"	1/2"~17/32"

IR COLLET - T03

A CLASS

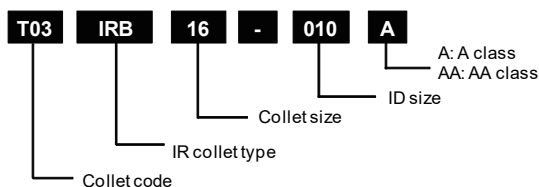
IR32 COLLET		METRIC	
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03IRB32-030A	IR Collet IR32-03	3.0~2.0	0.1181"~0.0787"
T03IRB32-040A	IR Collet IR32-04	4.0~3.0	0.1575"~0.1181"
T03IRB32-050A	IR Collet IR32-05	5.0~4.0	0.1969"~0.1575"
T03IRB32-060A	IR Collet IR32-06	6.0~5.0	0.2362"~0.1969"
T03IRB32-070A	IR Collet IR32-07	7.0~6.0	0.2756"~0.2362"
T03IRB32-080A	IR Collet IR32-08	8.0~7.0	0.3150"~0.2756"
T03IRB32-090A	IR Collet IR32-09	9.0~8.0	0.3543"~0.3150"
T03IRB32-100A	IR Collet IR32-10	10.0~9.0	0.3937"~0.3543"
T03IRB32-110A	IR Collet IR32-11	11.0~10.0	0.4330"~0.3937"
T03IRB32-120A	IR Collet IR32-12	12.0~11.0	0.4724"~0.4330"
T03IRB32-130A	IR Collet IR32-13	13.0~12.0	0.5118"~0.4724"
T03IRB32-140A	IR Collet IR32-14	14.0~13.0	0.5512"~0.5118"
T03IRB32-150A	IR Collet IR32-15	15.0~14.0	0.5905"~0.5512"
T03IRB32-160A	IR Collet IR32-16	16.0~15.0	0.6300"~0.5905"
T03IRB32-170A	IR Collet IR32-17	17.0~16.0	0.6693"~0.6300"
T03IRB32-180A	IR Collet IR32-18	18.0~17.0	0.7087"~0.6693"
T03IRB32-190A	IR Collet IR32-19	19.0~18.0	0.7480"~0.7087"
T03IRB32-200A	IR Collet IR32-20	20.0~19.0	0.7874"~0.7480"

IR25 COLLET		INCH	
Order Number	Part Name	Clamping Range	
T03IRB25A142A	IR Collet IR25-9/16"	17/32"~9/16"	
T03IRB25A150A	IR Collet IR25-19/32"	9/16"~19/32"	
T03IRB25A158A	IR Collet IR25-5/8"	19/32"~5/8"	

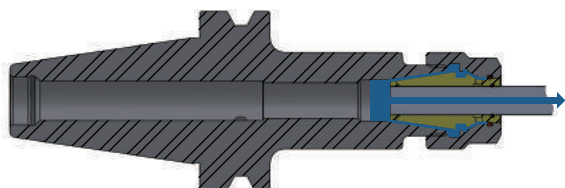
IR32 COLLET		INCH	
Order Number	Part Name	Clamping Range	
T03IRB32A031A	IR Collet IR32-1/8"	5/64"~1/8"	
T03IRB32A040A	IR Collet IR32-5/32"	1/8"~5/32"	
T03IRB32A047A	IR Collet IR32-3/16"	5/32"~3/16"	
T03IRB32A055A	IR Collet IR32-7/32"	3/16"~7/32"	
T03IRB32A063A	IR Collet IR32-1/4"	3/16"~1/4"	
T03IRB32A071A	IR Collet IR32-9/32"	1/4"~9/32"	
T03IRB32A079A	IR Collet IR32-5/16"	9/32"~5/16"	
T03IRB32A087A	IR Collet IR32-11/32"	5/16"~11/32"	
T03IRB32A095A	IR Collet IR32-3/8"	11/32"~3/8"	
T03IRB32A103A	IR Collet IR32-13/32"	11/32"~13/32"	
T03IRB32A111A	IR Collet IR32-7/16"	13/32"~7/16"	
T03IRB32A119A	IR Collet IR32-15/32"	7/16"~15/32"	
T03IRB32A127A	IR Collet IR32-1/2"	15/32"~1/2"	
T03IRB32A135A	IR Collet IR32-17/32"	1/2"~17/32"	
T03IRB32A142A	IR Collet IR32-9/16"	17/32"~9/16"	
T03IRB32A150A	IR Collet IR32-19/32"	9/16"~19/32"	
T03IRB32A158A	IR Collet IR32-5/8"	19/32"~5/8"	
T03IRB32A166A	IR Collet IR32-21/32"	5/8"~21/32"	
T03IRB32A174A	IR Collet IR32-11/16"	21/32"~11/16"	
T03IRB32A182A	IR Collet IR32-23/32"	11/16"~23/32"	
T03IRB32A190A	IR Collet IR32-3/4"	23/32"~3/4"	
T03IRB32A198A	IR Collet IR32-25/32"	3/4"~25/32"	

IR40 COLLET		METRIC	
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03IRB40-030A	IR Collet IR40-03	3.0~2.0	0.1181"~0.0787"
T03IRB40-040A	IR Collet IR40-04	4.0~3.0	0.1575"~0.1181"
T03IRB40-050A	IR Collet IR40-05	5.0~4.0	0.1969"~0.1575"
T03IRB40-060A	IR Collet IR40-06	6.0~5.0	0.2362"~0.1969"
T03IRB40-070A	IR Collet IR40-07	7.0~6.0	0.2756"~0.2362"
T03IRB40-080A	IR Collet IR40-08	8.0~7.0	0.3150"~0.2756"
T03IRB40-090A	IR Collet IR40-09	9.0~8.0	0.3543"~0.3150"
T03IRB40-100A	IR Collet IR40-10	10.0~9.0	0.3937"~0.3543"
T03IRB40-110A	IR Collet IR40-11	11.0~10.0	0.4330"~0.3937"
T03IRB40-120A	IR Collet IR40-12	12.0~11.0	0.4724"~0.4330"
T03IRB40-130A	IR Collet IR40-13	13.0~12.0	0.5118"~0.4724"
T03IRB40-140A	IR Collet IR40-14	14.0~13.0	0.5512"~0.5118"
T03IRB40-150A	IR Collet IR40-15	15.0~14.0	0.5905"~0.5512"
T03IRB40-160A	IR Collet IR40-16	16.0~15.0	0.6300"~0.5905"
T03IRB40-170A	IR Collet IR40-17	17.0~16.0	0.6693"~0.6300"
T03IRB40-180A	IR Collet IR40-18	18.0~17.0	0.7087"~0.6693"
T03IRB40-190A	IR Collet IR40-19	19.0~18.0	0.7480"~0.7087"
T03IRB40-200A	IR Collet IR40-20	20.0~19.0	0.7874"~0.7480"
T03IRB40-210A	IR Collet IR40-21	21.0~20.0	0.8268"~0.7874"
T03IRB40-220A	IR Collet IR40-22	22.0~21.0	0.8661"~0.8268"
T03IRB40-230A	IR Collet IR40-23	23.0~22.0	0.9055"~0.8661"
T03IRB40-240A	IR Collet IR40-24	24.0~23.0	0.9449"~0.9055"
T03IRB40-250A	IR Collet IR40-25	25.0~24.0	0.9843"~0.9449"
T03IRB40-260A	IR Collet IR40-26	26.0~25.0	1.0236"~0.9843"

IR40 COLLET		INCH	
Order Number	Part Name	Clamping Range	
T03IRB40A031A	IR Collet IR40-1/8"	5/64"~1/8"	
T03IRB40A040A	IR Collet IR40-5/32"	1/8"~5/32"	
T03IRB40A047A	IR Collet IR40-3/16"	5/32"~3/16"	
T03IRB40A055A	IR Collet IR40-7/32"	3/16"~7/32"	
T03IRB40A063A	IR Collet IR40-1/4"	3/16"~1/4"	
T03IRB40A071A	IR Collet IR40-9/32"	1/4"~9/32"	
T03IRB40A079A	IR Collet IR40-5/16"	9/32"~5/16"	
T03IRB40A087A	IR Collet IR40-11/32"	5/16"~11/32"	
T03IRB40A095A	IR Collet IR40-3/8"	11/32"~3/8"	
T03IRB40A103A	IR Collet IR40-13/32"	11/32"~13/32"	
T03IRB40A111A	IR Collet IR40-7/16"	13/32"~7/16"	
T03IRB40A119A	IR Collet IR40-15/32"	7/16"~15/32"	
T03IRB40A127A	IR Collet IR40-1/2"	15/32"~1/2"	
T03IRB40A135A	IR Collet IR40-17/32"	1/2"~17/32"	
T03IRB40A142A	IR Collet IR40-9/16"	17/32"~9/16"	
T03IRB40A150A	IR Collet IR40-19/32"	9/16"~19/32"	
T03IRB40A158A	IR Collet IR40-5/8"	19/32"~5/8"	
T03IRB40A166A	IR Collet IR40-21/32"	5/8"~21/32"	
T03IRB40A174A	IR Collet IR40-11/16"	21/32"~11/16"	
T03IRB40A182A	IR Collet IR40-23/32"	11/16"~23/32"	
T03IRB40A190A	IR Collet IR40-3/4"	23/32"~3/4"	
T03IRB40A198A	IR Collet IR40-25/32"	3/4"~25/32"	
T03IRB40A206A	IR Collet IR40-13/16"	25/32"~13/16"	
T03IRB40A214A	IR Collet IR40-27/32"	13/16"~27/32"	
T03IRB40A222A	IR Collet IR40-7/8"	27/32"~7/8"	
T03IRB40A230A	IR Collet IR40-29/32"	7/8"~29/32"	
T03IRB40A238A	IR Collet IR40-15/16"	29/32"~15/16"	
T03IRB40A246A	IR Collet IR40-31/32"	15/16"~31/32"	
T03IRB40A254A	IR Collet IR40-1"	31/32"~1"	



IR COLLET - T03



IR08 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03IRB8-030AA	IR Collet IR8-030AA	3.0~2.5	0.1181"~0.0984"
T03IRB8-035AA	IR Collet IR8-035AA	3.5~3.0	0.1400"~0.1181"
T03IRB8-040AA	IR Collet IR8-040AA	4.0~3.5	0.1575"~0.1400"
T03IRB8-045AA	IR Collet IR8-045AA	4.5~4.0	0.1800"~0.1575"
T03IRB8-050AA	IR Collet IR8-050AA	5.0~4.5	0.1969"~0.1800"

IR11 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03IRB11-030AA	IR Collet IR11-03AA	3.0~2.0	0.1181"~0.0787"
T03IRB11-040AA	IR Collet IR11-04AA	4.0~3.0	0.1575"~0.1181"
T03IRB11-050AA	IR Collet IR11-05AA	5.0~4.0	0.1969"~0.1575"
T03IRB11-060AA	IR Collet IR11-06AA	6.0~5.0	0.2362"~0.1969"
T03IRB11-070AA	IR Collet IR11-07AA	7.0~6.0	0.2756"~0.2362"

IR16 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03IRB16-030AA	IR Collet IR16-03AA	3.0~2.0	0.1181"~0.0787"
T03IRB16-040AA	IR Collet IR16-04AA	4.0~3.0	0.1575"~0.1181"
T03IRB16-050AA	IR Collet IR16-05AA	5.0~4.0	0.1969"~0.1575"
T03IRB16-060AA	IR Collet IR16-06AA	6.0~5.0	0.2362"~0.1969"
T03IRB16-070AA	IR Collet IR16-07AA	7.0~6.0	0.2756"~0.2362"
T03IRB16-080AA	IR Collet IR16-08AA	8.0~7.0	0.3150"~0.2756"
T03IRB16-090AA	IR Collet IR16-09AA	9.0~8.0	0.3543"~0.3150"
T03IRB16-100AA	IR Collet IR16-10AA	10.0~9.0	0.3937"~0.3543"

IR20 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03IRB20-030AA	IR Collet IR20-03AA	3.0~2.0	0.1181"~0.0787"
T03IRB20-040AA	IR Collet IR20-04AA	4.0~3.0	0.1575"~0.1181"
T03IRB20-050AA	IR Collet IR20-05AA	5.0~4.0	0.1969"~0.1575"
T03IRB20-060AA	IR Collet IR20-06AA	6.0~5.0	0.2362"~0.1969"
T03IRB20-070AA	IR Collet IR20-07AA	7.0~6.0	0.2756"~0.2362"
T03IRB20-080AA	IR Collet IR20-08AA	8.0~7.0	0.3150"~0.2756"
T03IRB20-090AA	IR Collet IR20-09AA	9.0~8.0	0.3543"~0.3150"
T03IRB20-100AA	IR Collet IR20-10AA	10.0~9.0	0.3937"~0.3543"
T03IRB20-110AA	IR Collet IR20-11AA	11.0~10.0	0.4330"~0.3937"
T03IRB20-120AA	IR Collet IR20-12AA	12.0~11.0	0.4724"~0.4330"
T03IRB20-130AA	IR Collet IR20-13AA	13.0~12.0	0.5118"~0.4724"

IR25 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB25-030AA	IR Collet IR25-03AA	3.0~2.0	0.1181"~0.0787"
T03ERB25-040AA	IR Collet IR25-04AA	4.0~3.0	0.1575"~0.1181"
T03ERB25-050AA	IR Collet IR25-05AA	5.0~4.0	0.1969"~0.1575"
T03ERB25-060AA	IR Collet IR25-06AA	6.0~5.0	0.2362"~0.1969"
T03ERB25-070AA	IR Collet IR25-07AA	7.0~6.0	0.2756"~0.2362"
T03ERB25-080AA	IR Collet IR25-08AA	8.0~7.0	0.3150"~0.2756"
T03ERB25-090AA	IR Collet IR25-09AA	9.0~8.0	0.3543"~0.3150"
T03ERB25-100AA	IR Collet IR25-10AA	10.0~9.0	0.3937"~0.3543"
T03ERB25-110AA	IR Collet IR25-11AA	11.0~10.0	0.4330"~0.3937"
T03ERB25-120AA	IR Collet IR25-12AA	12.0~11.0	0.4724"~0.4330"
T03ERB25-130AA	IR Collet IR25-13AA	13.0~12.0	0.5118"~0.4724"
T03ERB25-140AA	IR Collet IR25-14AA	14.0~13.0	0.5512"~0.5118"
T03ERB25-150AA	IR Collet IR25-15AA	15.0~14.0	0.5905"~0.5512"
T03ERB25-160AA	IR Collet IR25-16AA	16.0~15.0	0.6300"~0.5905"

IR8 COLLET INCH		
Order Number	Part Name	Clamping Range
T03IRB8A031AA	IR Collet IR8-1/8"AA	7/64"~1/8"
T03IRB8A040AA	IR Collet IR8-5/32"AA	9/64"~5/32"
T03IRB8A047AA	IR Collet IR8-3/16"AA	5/32"~3/16"

IR11 COLLET INCH		
Order Number	Part Name	Clamping Range
T03IRB11A031AA	IR Collet IR11-1/8"AA	5/64"~1/8"
T03IRB11A040AA	IR Collet IR11-5/32"AA	1/8"~5/32"
T03IRB11A047AA	IR Collet IR11-3/16"AA	5/32"~3/16"
T03IRB11A055AA	IR Collet IR11-7/32"AA	3/16"~7/32"
T03IRB11A063AA	IR Collet IR11-1/4"AA	7/32"~1/4"

IR16 COLLET INCH		
Order Number	Part Name	Clamping Range
T03IRB16A031AA	IR Collet IR16-1/8"AA	5/64"~1/8"
T03IRB16A040AA	IR Collet IR16-5/32"AA	1/8"~5/32"
T03IRB16A047AA	IR Collet IR16-3/16"AA	5/32"~3/16"
T03IRB16A055AA	IR Collet IR16-7/32"AA	3/16"~7/32"
T03IRB16A063AA	IR Collet IR16-1/4"AA	7/32"~1/4"
T03IRB16A071AA	IR Collet IR16-9/32"AA	1/4"~9/32"
T03IRB16A079AA	IR Collet IR16-5/16"AA	9/32"~5/16"
T03IRB16A087AA	IR Collet IR16-11/32"AA	5/16"~11/32"
T03IRB16A095AA	IR Collet IR16-3/8"AA	11/32"~3/8"
T03IRB16A103AA	IR Collet IR16-13/32"AA	3/8"~13/32"

IR20 COLLET INCH		
Order Number	Part Name	Clamping Range
T03IRB20A031AA	IR Collet IR20-1/8"AA	5/64"~1/8"
T03IRB20A040AA	IR Collet IR20-5/32"AA	1/8"~5/32"
T03IRB20A047AA	IR Collet IR20-3/16"AA	5/32"~3/16"
T03IRB20A055AA	IR Collet IR20-7/32"AA	3/16"~7/32"
T03IRB20A063AA	IR Collet IR20-1/4"AA	3/16"~1/4"
T03IRB20A071AA	IR Collet IR20-9/32"AA	1/4"~9/32"
T03IRB20A079AA	IR Collet IR20-5/16"AA	9/32"~5/16"
T03IRB20A087AA	IR Collet IR20-11/32"AA	5/16"~11/32"
T03IRB20A095AA	IR Collet IR20-3/8"AA	11/32"~3/8"
T03IRB20A103AA	IR Collet IR20-13/32"AA	11/32"~13/32"
T03IRB20A111AA	IR Collet IR20-7/16"AA	13/32"~7/16"
T03IRB20A119AA	IR Collet IR20-15/32"AA	7/16"~15/32"
T03IRB20A127AA	IR Collet IR20-1/2"AA	15/32"~1/2"

IR25 COLLET INCH		
Order Number	Part Name	Clamping Range
T03IRB25A031AA	IR Collet IR25-1/8"AA	5/64"~1/8"
T03IRB25A040AA	IR Collet IR25-5/32"AA	1/8"~5/32"
T03IRB25A047AA	IR Collet IR25-3/16"AA	5/32"~3/16"
T03IRB25A055AA	IR Collet IR25-7/32"AA	3/16"~7/32"
T03IRB25A063AA	IR Collet IR25-1/4"AA	3/16"~1/4"
T03IRB25A071AA	IR Collet IR25-9/32"AA	1/4"~9/32"
T03IRB25A079AA	IR Collet IR25-5/16"AA	9/32"~5/16"
T03IRB25A087AA	IR Collet IR25-11/32"AA	5/16"~11/32"
T03IRB25A095AA	IR Collet IR25-3/8"AA	11/32"~3/8"
T03IRB25A103AA	IR Collet IR25-13/32"AA	11/32"~13/32"
T03IRB25A111AA	IR Collet IR25-7/16"AA	13/32"~7/16"
T03IRB25A119AA	IR Collet IR25-15/32"AA	7/16"~15/32"
T03IRB25A127AA	IR Collet IR25-1/2"AA	15/32"~1/2"
T03IRB25A135AA	IR Collet IR25-17/32"AA	1/2"~17/32"

IR COLLET - T03

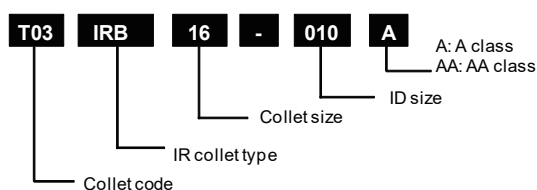
IR32 COLLET		METRIC	
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03IRB32-030AA	IR Collet IR32-03AA	3.0~2.0	0.1181"~0.0787"
T03IRB32-040AA	IR Collet IR32-04AA	4.0~3.0	0.1575"~0.1181"
T03IRB32-050AA	IR Collet IR32-05AA	5.0~4.0	0.1969"~0.1575"
T03IRB32-060AA	IR Collet IR32-06AA	6.0~5.0	0.2362"~0.1969"
T03IRB32-070AA	IR Collet IR32-07AA	7.0~6.0	0.2756"~0.2362"
T03IRB32-080AA	IR Collet IR32-08AA	8.0~7.0	0.3150"~0.2756"
T03IRB32-090AA	IR Collet IR32-09AA	9.0~8.0	0.3543"~0.3150"
T03IRB32-100AA	IR Collet IR32-10AA	10.0~9.0	0.3937"~0.3543"
T03IRB32-110AA	IR Collet IR32-11AA	11.0~10.0	0.4330"~0.3937"
T03IRB32-120AA	IR Collet IR32-12AA	12.0~11.0	0.4724"~0.4330"
T03IRB32-130AA	IR Collet IR32-13AA	13.0~12.0	0.5118"~0.4724"
T03IRB32-140AA	IR Collet IR32-14AA	14.0~13.0	0.5512"~0.5118"
T03IRB32-150AA	IR Collet IR32-15AA	15.0~14.0	0.5905"~0.5512"
T03IRB32-160AA	IR Collet IR32-16AA	16.0~15.0	0.6300"~0.5905"
T03IRB32-170AA	IR Collet IR32-17AA	17.0~16.0	0.6693"~0.6300"
T03IRB32-180AA	IR Collet IR32-18AA	18.0~17.0	0.7087"~0.6693"
T03IRB32-190AA	IR Collet IR32-19AA	19.0~18.0	0.7480"~0.7087"
T03IRB32-200AA	IR Collet IR32-20AA	20.0~19.0	0.7874"~0.7480"

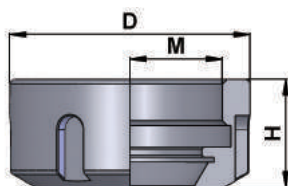
IR40 COLLET		METRIC	
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03IRB40-030AA	IR Collet IR40-03AA	3.0~2.0	0.1181"~0.0787"
T03IRB40-040AA	IR Collet IR40-04AA	4.0~3.0	0.1575"~0.1181"
T03IRB40-050AA	IR Collet IR40-05AA	5.0~4.0	0.1969"~0.1575"
T03IRB40-060AA	IR Collet IR40-06AA	6.0~5.0	0.2362"~0.1969"
T03IRB40-070AA	IR Collet IR40-07AA	7.0~6.0	0.2756"~0.2362"
T03IRB40-080AA	IR Collet IR40-08AA	8.0~7.0	0.3150"~0.2756"
T03IRB40-090AA	IR Collet IR40-09AA	9.0~8.0	0.3543"~0.3150"
T03IRB40-100AA	IR Collet IR40-10AA	10.0~9.0	0.3937"~0.3543"
T03IRB40-110AA	IR Collet IR40-11AA	11.0~10.0	0.4330"~0.3937"
T03IRB40-120AA	IR Collet IR40-12AA	12.0~11.0	0.4724"~0.4330"
T03IRB40-130AA	IR Collet IR40-13AA	13.0~12.0	0.5118"~0.4724"
T03IRB40-140AA	IR Collet IR40-14AA	14.0~13.0	0.5512"~0.5118"
T03IRB40-150AA	IR Collet IR40-15AA	15.0~14.0	0.5905"~0.5512"
T03IRB40-160AA	IR Collet IR40-16AA	16.0~15.0	0.6300"~0.5905"
T03IRB40-170AA	IR Collet IR40-17AA	17.0~16.0	0.6693"~0.6300"
T03IRB40-180AA	IR Collet IR40-18AA	18.0~17.0	0.7087"~0.6693"
T03IRB40-190AA	IR Collet IR40-19AA	19.0~18.0	0.7480"~0.7087"
T03IRB40-200AA	IR Collet IR40-20AA	20.0~19.0	0.7874"~0.7480"
T03IRB40-210AA	IR Collet IR40-21AA	21.0~20.0	0.8268"~0.7874"
T03IRB40-220AA	IR Collet IR40-22AA	22.0~21.0	0.8661"~0.8268"
T03IRB40-230AA	IR Collet IR40-23AA	23.0~22.0	0.9055"~0.8661"
T03IRB40-240AA	IR Collet IR40-24AA	24.0~23.0	0.9449"~0.9055"
T03IRB40-250AA	IR Collet IR40-25AA	25.0~24.0	0.9843"~0.9449"
T03IRB40-260AA	IR Collet IR40-26AA	26.0~25.0	1.0236"~0.9843"

IR25 COLLET INCH		
Order Number	Part Name	Clamping Range
T03IRB25A142AA	IR Collet IR25-9/16"AA	17/32"~9/16"
T03IRB25A150AA	IR Collet IR25-19/32"AA	9/16"~19/32"
T03IRB25A158AA	IR Collet IR25-5/8"AA	19/32"~5/8"

IR32 COLLET		INCH
Order Number	Part Name	Clamping Range
T03IRB32A031AA	IR Collet IR32-1/8"AA	5/64"~1/8"
T03IRB32A040AA	IR Collet IR32-5/32"AA	1/8"~5/32"
T03IRB32A047AA	IR Collet IR32-3/16"AA	5/32"~3/16"
T03IRB32A055AA	IR Collet IR32-7/32"AA	3/16"~7/32"
T03IRB32A063AA	IR Collet IR32-1/4"AA	3/16"~1/4"
T03IRB32A071AA	IR Collet IR32-9/32"AA	1/4"~9/32"
T03IRB32A079AA	IR Collet IR32-5/16"AA	9/32"~5/16"
T03IRB32A087AA	IR Collet IR32-11/32"AA	5/16"~11/32"
T03IRB32A095AA	IR Collet IR32-3/8"AA	11/32"~3/8"
T03IRB32A103AA	IR Collet IR32-13/32"AA	11/32"~13/32"
T03IRB32A111AA	IR Collet IR32-7/16"AA	13/32"~7/16"
T03IRB32A119AA	IR Collet IR32-15/32"AA	7/16"~15/32"
T03IRB32A127AA	IR Collet IR32-1/2"AA	15/32"~1/2"
T03IRB32A135AA	IR Collet IR32-17/32"AA	1/2"~17/32"
T03IRB32A142AA	IR Collet IR32-9/16"AA	17/32"~9/16"
T03IRB32A150AA	IR Collet IR32-19/32"AA	9/16"~19/32"
T03IRB32A158AA	IR Collet IR32-5/8"AA	19/32"~5/8"
T03IRB32A166AA	IR Collet IR32-21/32"AA	5/8"~21/32"
T03IRB32A174AA	IR Collet IR32-11/16"AA	21/32"~11/16"
T03IRB32A182AA	IR Collet IR32-23/32"AA	11/16"~23/32"
T03IRB32A190AA	IR Collet IR32-3/4"AA	23/32"~3/4"
T03IRB32A198AA	IR Collet IR32-25/32"AA	3/4"~25/32"

IR40 COLLET		INCH
Order Number	Part Name	Clamping Range
T03IRB40A031AA	IR Collet IR40-1/8"AA	5/64"~1/8"
T03IRB40A040AA	IR Collet IR40-5/32"AA	1/8"~5/32"
T03IRB40A047AA	IR Collet IR40-3/16"AA	5/32"~3/16"
T03IRB40A055AA	IR Collet IR40-7/32"AA	3/16"~7/32"
T03IRB40A063AA	IR Collet IR40-1/4"AA	3/16"~1/4"
T03IRB40A071AA	IR Collet IR40-9/32"AA	1/4"~9/32"
T03IRB40A079AA	IR Collet IR40-5/16"AA	9/32"~5/16"
T03IRB40A087AA	IR Collet IR40-11/32"AA	5/16"~11/32"
T03IRB40A095AA	IR Collet IR40-3/8"AA	11/32"~3/8"
T03IRB40A103AA	IR Collet IR40-13/32"AA	11/32"~13/32"
T03IRB40A111AA	IR Collet IR40-7/16"AA	13/32"~7/16"
T03IRB40A119AA	IR Collet IR40-15/32"AA	7/16"~15/32"
T03IRB40A127AA	IR Collet IR40-1/2"AA	15/32"~1/2"
T03IRB40A135AA	IR Collet IR40-17/32"AA	1/2"~17/32"
T03IRB40A142AA	IR Collet IR40-9/16"AA	17/32"~9/16"
T03IRB40A150AA	IR Collet IR40-19/32"AA	9/16"~19/32"
T03IRB40A158AA	IR Collet IR40-5/8"AA	19/32"~5/8"
T03IRB40A166AA	IR Collet IR40-21/32"AA	5/8"~21/32"
T03IRB40A174AA	IR Collet IR40-11/16"AA	21/32"~11/16"
T03IRB40A182AA	IR Collet IR40-23/32"AA	11/16"~23/32"
T03IRB40A190AA	IR Collet IR40-3/4"AA	23/32"~3/4"
T03IRB40A198AA	IR Collet IR40-25/32"AA	3/4"~25/32"
T03IRB40A206AA	IR Collet IR40-13/16"AA	25/32"~13/16"
T03IRB40A214AA	IR Collet IR40-27/32"AA	13/16"~27/32"
T03IRB40A222AA	IR Collet IR40-7/8"AA	27/32"~7/8"
T03IRB40A230AA	IR Collet IR40-29/32"AA	7/8"~29/32"
T03IRB40A238AA	IR Collet IR40-15/16"AA	29/32"~15/16"
T03IRB40A246AA	IR Collet IR40-31/32"AA	15/16"~31/32"
T03IRB40A254AA	IR Collet IR40-1"AA	31/32"~1"





Mini



Hex



Spanner



Ball Bearing

ER MINI NUT - w/ PrimeTool unique concentric balanced design - HSM

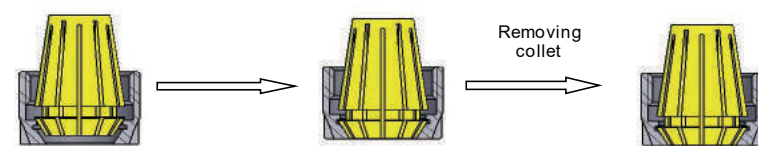
Order Number	Part Name	Collet	D	H	M	wrench	remark
T04RR08-M1A	ER8 Mini Nut	ER8	12	10.8	M10xP0.75	Mini	T07ER0803
T04RR11-M1A	ER11 Mini Nut	ER11	16	12.0	M13xP0.75	Mini	T07ER1103
T04RR16-M1A	ER16 Mini Nut	ER16	22	18.4	M19xP1.00	Mini	T07ER1603
T04RR20-M1A	ER20 Mini Nut	ER20	28	19.0	M24xP1.00	Mini	T07ER2003

ER MINI BALANCED NUT, BALANCED (<1g-mm) - w/PrimeTool unique concentric balanced design - HSM

Order Number	Part Name	Collet	D	H	M	wrench	remark
T04RR08-M2A	ER8-HB,Mini Nut	ER8	12	10.8	M10xP0.75	Mini	T07ER0803
T04RR11-M2A	ER11-HB,Mini Nut	ER11	16	12.0	M13xP0.75	Mini	T07ER1103
T04RR16-M2A	ER16-HB,Mini Nut	ER16	22	18.4	M19xP1.00	Mini	T07ER1603
T04RR20-M2A	ER20-HB,Mini Nut	ER20	28	19.0	M24xP1.00	Mini	T07ER2003

Assembly with ER collet

1. Push collet into the nut as shown in the Diagram below



Concentric Design

Complete assembly

1. Push collet out from nut in direction of arrow

ER NUT

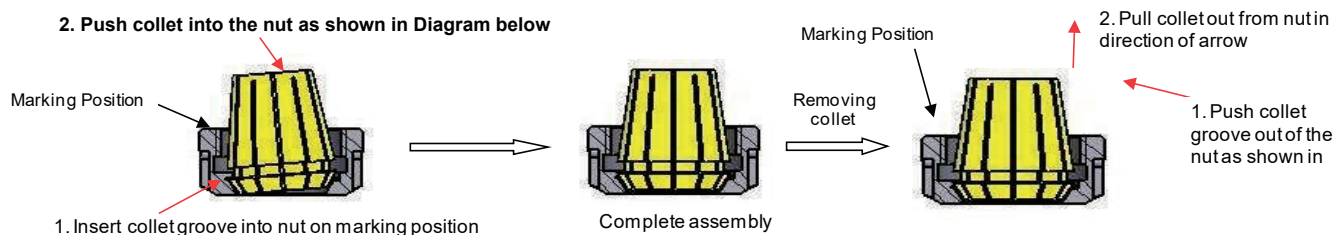
Order Number	Part Name	Collet	D	H	M	wrench	remark
T04ER11-H1A	ER11 Nut,Hex	ER11	19	11.3	M14xP0.75	Hex	T07ER1101
T04ER16-H1A	ER16 Nut, Hex	ER16	28	17.5	M22xP1.50	Hex	T07ER1601
T04ER20-H1A	ER20 Nut,Hex	ER20	34	19.0	M25xP1.50	Hex	T07ER2001
T04ER20-D1A	ER20 Nut,Spanner	ER20	35	19.0	M25xP1.50	IR	T07ER2004
T04ER25-D1A	ER25 Nut	ER25	42	20.0	M32xP1.50	ER	T07ER2502
T04ER32-D1A	ER32 Nut	ER32	50	22.5	M40xP1.50	ER	T07ER3202
T04ER40-D1A	ER40 Nut	ER40	63	25.5	M50xP1.50	ER	T07ER4002

ER BALANCED NUT, BALANCED (<1g-mm)

Order Number	Part Name	Collet	D	H	M	wrench	remark
T04ER11-H2A	ER11-HB Nut	ER11	19	11.3	M14xP0.75	Hex	T07ER1101
T04ER16-H2A	ER16-HB Nut	ER16	28	17.5	M22xP1.50	Hex	T07ER1601
T04ER20-H2A	ER20-HB Nut	ER20	34	19.0	M25xP1.50	Hex	T07ER2001
T04ER20-D2A	ER20-HB Nut,Spanner	ER20	35	19.0	M25xP1.50	IR	T07ER2004
T04ER25-D2A	ER25-HB Nut	ER25	42	20.0	M32xP1.50	ER	T07ER2502
T04ER32-D2A	ER32-HB Nut	ER32	50	22.5	M40xP1.50	ER	T07ER3202
T04ER40-D2A	ER40-HB Nut	ER40	63	25.5	M50xP1.50	ER	T07ER4002

Assembly with ER collet

2. Push collet into the nut as shown in Diagram below



Marking Position

1. Insert collet groove into nut on marking position

Complete assembly

Marking Position

Removing collet

2. Pull collet out from nut in direction of arrow

1. Push collet groove out of the nut as shown in

ER RR Nut - w/PrimeTool Unique concentric balanced design - HSM

Order Number	Part Name	Collet	D	H	M	wrench		remark
T04RR11-H1A	ER11-RR Nut	ER11	19	11.3	M14xP0.75	Hex	T07ER1101	
T04RR16-H1A	ER16-RR Nut	ER16	28	17.5	M22xP1.50	Hex	T07ER1601	
T04RR20-H1A	ER20-RR Nut	ER20	34	19.0	M25xP1.50	Hex	T07ER2001	
T04RR25-D1A	ER25-RR Nut	ER25	42	20.0	M32xP1.50	ER	T07ER2502	
T04RR32-D1A	ER32-RR Nut	ER32	50	22.5	M40xP1.50	ER	T07ER3202	
T04RR40-D1A	ER40-RR Nut	ER40	63	25.5	M50xP1.50	ER	T07ER4002	

ER RR BALANCED NUT - BALANCED (<1g-mm) - w/PrimeTool unique concentric balanced design - HSM

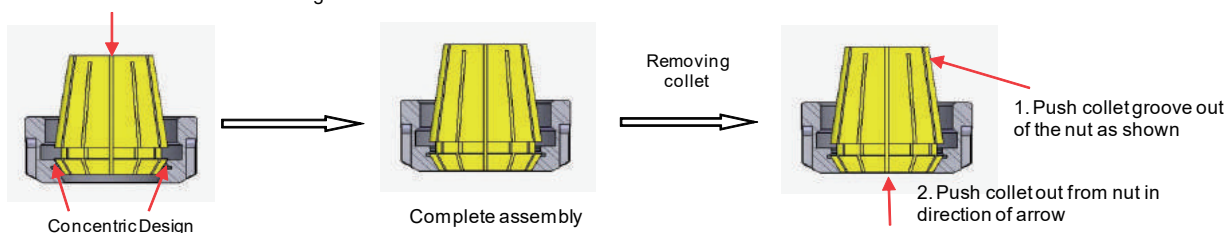
Order Number	Part Name	Collet	D	H	M	wrench		remark
T04RR11-H2A	ER11-RR-HB Nut	ER11	19	11.3	M14xP0.75	Hex	T07ER1101	
T04RR16-H2A	ER16-RR-HB Nut	ER16	28	17.5	M22xP1.50	Hex	T07ER1601	
T04RR20-H2A	ER20-RR-HB Nut	ER20	34	19.0	M25xP1.50	Hex	T07ER2001	
T04RR25-D2A	ER25-RR-HB Nut	ER25	42	20.0	M32xP1.50	ER	T07ER2502	
T04RR32-D2A	ER32-RR-HB Nut	ER32	50	22.5	M40xP1.50	ER	T07ER3202	
T04RR40-D2A	ER40-RR-HB Nut	ER40	63	25.5	M50xP1.50	ER	T07ER4002	

PrimeTool unique concentric design:

1. Concentric design eliminates imbalance from standard clamping nut.
2. Easy to assemble ER collet. Push ER collet into ER nut with one step.
3. The collet will not fall out when properly in the nut.
4. Unique design for High Speed Machining

Assembly with ER collet

1. Push collet into the nut as shown in diagram below



ER BALL BEARING NUT - w/ PrimeTool unique concentric balanced design - HSM

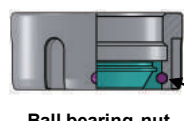
Order Number	Part Name	Collet	D	H	M	wrench		remark
T04RR25-D1A-BB	ER25-BB,Ball Bearing Nut	ER25	42	20.0	M32xP1.5	ER	T07ER2502	
T04RR32-D1A-BB	ER32-BB,Ball Bearing Nut	ER32	50	22.5	M40xP1.5	ER	T07ER3202	
T04RR40-D1A-BB	ER40-BB,Ball Bearing Nut	ER40	63	25.5	M50xP1.5	ER	T07ER4002	

Feature:

1. PrimeTool Unique Concentric Design.
2. Precision ball bearing assemble. Smoothly working.



Ball bearing nut



Ball bearing nut

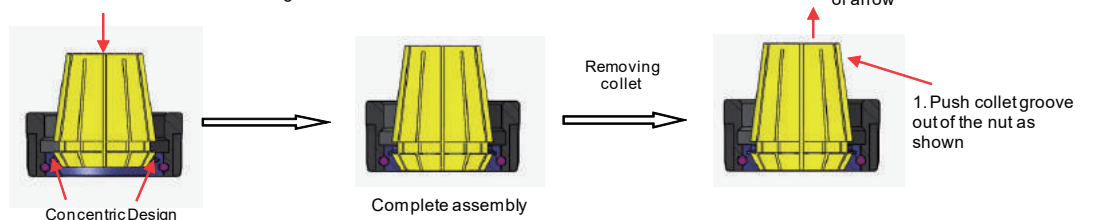
Steel ball



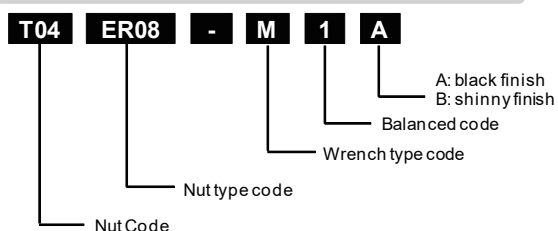
ER Spanner

Assembly with ER collet

1. Push collet into the nut as shown in Diagram below



Order Number Instruction



A: black finish

B: shinny finish

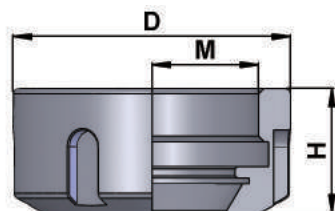
Balanced code

Wrench type code

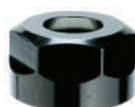
Nut type code

Nut Code

ER CLAMPING NUT COOLANT - T04



Mini



Hex



Spanner



Ball Bearing

ER COOLANT MINI NUT w/sealing coolant -w/ PrimeTool unique concentric design - HSM

Order Number	Part Name	Collet	D	H	M	wrench	remark
T04RR08-M1AC	ER08C,Coolant Mini Nut	ER08	12	10.8	M10xP0.75	Mini	T07ER0803
T04RR11-M1AC	ER11C,Coolant Mini Nut	ER11	16	12	M13xP0.75	Mini	T07ER1103
T04RR16-M1AC	ER16C,Coolant Mini Nut	ER16	22	18.4	M19xP1.00	Mini	T07ER1603
T04RR20-M1AC	ER20C,Coolant Mini Nut	ER20	28	19	M24xP1.00	Mini	T07ER2003

ER COOLANT MINI NUT HIGH BALANCED - w/sealing coolant w/ Primetool unique concentric Design - HSM

Order Number	Part Name	Collet	D	H	M	wrench	remark
T04RR08-M2AC	ER08C-HB, Coolant Mini Nut	ER08	12	10.8	M10xP0.75	Mini	T07ER0803
T04RR11-M2AC	ER11C-HB, Coolant Mini Nut	ER11	16	12	M13xP0.75	Mini	T07ER1103
T04RR16-M2AC	ER16C-HB, Coolant Mini Nut	ER16	22	18.4	M19xP1.0	Mini	T07ER1603
T04RR20-M2AC	ER20C-HB, Coolant Mini Nut	ER20	28	19	M24xP1.0	Mini	T07ER2003

ER RR COOLANT NUT w/sealing coolant - w/ PrimeTool unique concentric design - HSM

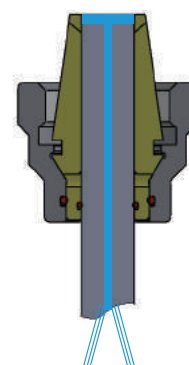
Order Number	Part Name	Collet	D	H	M	wrench	remark
T04RR11-H1AC	ER11C,Coolant Nut,Hex	ER11	19		M14xP0.75	Hex	T07ER1101
T04RR16-H1AC	ER16C,Coolant Nut,Hex	ER16	28		M22xP1.50	Hex	T07ER1601
T04RR20-H1AC	ER20C,Coolant Nut,Hex	ER20	34		M25xP1.50	Hex	T07ER2001
T04RR25-H1AC	ER25C,Coolant Nut	ER25	42		M32xP1.50	Spanner	T07ER2502
T04RR32-H1AC	ER32C,Coolant Nut	ER32	50		M40xP1.50	Spanner	T07ER3202
T04RR40-H1AC	ER40C,Coolant Nut	ER40	63		M50xP1.50	Spanner	T07ER4002

ER IR COOLANT NUT HIGH-BALANCED (<2g-mm) - w/sealing coolant - w/PrimeTool unique concentric design - HSM

Order Number	Part Name	Collet	D	H	M	wrench	remark
T04IR11-H1AC	IR11C-HB, Coolant Nut,Hex	ER11	19		M14xP0.75	Hex	T07ER1101
T04IR16-H1AC	IR16C-HB, Coolant Nut,Hex	ER16	28		M22xP1.50	Hex	T07ER1601
T04IR20-H1AC	IR20C-HB,Coolant Nut,Hex	ER20	34		M25xP1.50	Hex	T07ER2001
T04IR25-H1AC	IR25C-HB,Coolant Nut	ER25	42		M32xP1.50	Spanner	T07ER2502
T04IR32-H1AC	IR32C-HB,Coolant Nut	ER32	50		M40xP1.50	Spanner	T07ER3202
T04IR40-H1AC	IR40C-HB,Coolant Nut	ER40	63		M50xP1.50	Spanner	T07ER4002

Feature:

1. PrimeTool Unique Concentric Design.
2. Coolant pressure: up to 1500psi (103 bar).



Assembly with ER collet

1. Push collet into the nut as shown in Diagram below

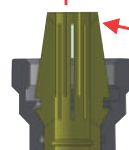


Concentric Design



Complete Assembly

Removing
collet

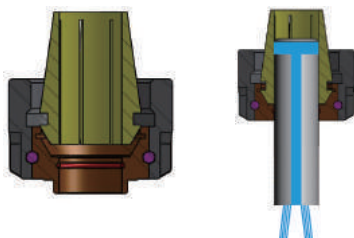


2. Pull collet out from nut in direction of arrow

1. Push collet groove out of the nut as shown

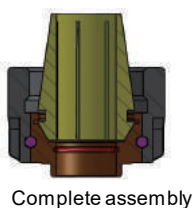
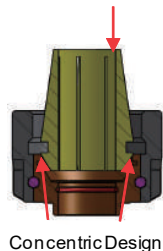
ER BALL BEARING COOLANT NUT BALL BEARING- w/Coolant Sealing

Order Number	Part Name	Collet	D	H	M	wrench		remark
T04RR25-D1AC-BB	ER25-BB,Ball Bearing Nut	ER25	42	20	M32xP1.5	Spanner	T07ER2502	
T04RR32-D1AC-BB	ER32-BB,Ball Bearing Nut	ER32	50	22.5	M40xP1.5	Spanner	T07ER3202	
T04RR40-D1AC-BB	ER40-BB,Ball Bearing Nut	ER40	63	25.5	M50xP1.5	Spanner	T07ER4002	

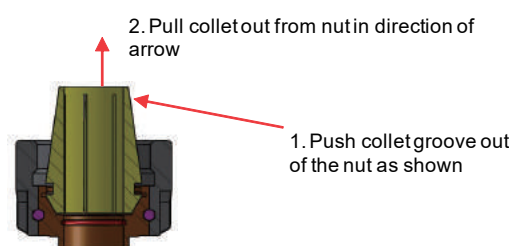


Assembly with ER collet

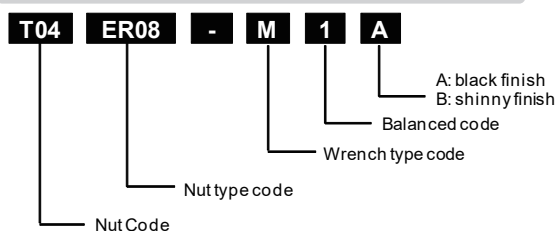
1. Push collet into the nut as shown in Diagram below



Removing
collet



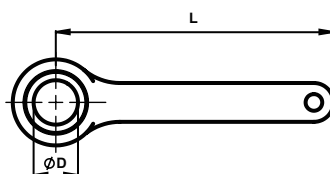
Order Number Instruction



WRENCH - T07

Quality

- Forged-alloy steel
- Case-hardened heat treatment



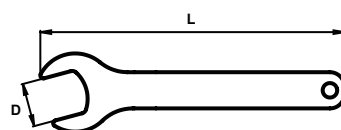
MINI WRENCH

MINI WRENCH BEARING WITH ONE-WAY CLUTCHES

Order Number	Part Name	D	L	NUT	STANDARD	I SYSTEM	remark
T07ER0805	ER08 MINI WRENCH	12	100	ER08M	YES	YES	
T07ER1105	ER11 MINI WRENCH	16	100	ER11M	YES	YES	
T07ER1605	ER16 MINI WRENCH	22	120	ER16M	YES	NO	
T07ER2005	ER20 MINI WRENCH	28	120	ER20M	YES	NO	

Quality

- Forged-alloy steel
- Case-hardened heat treatment



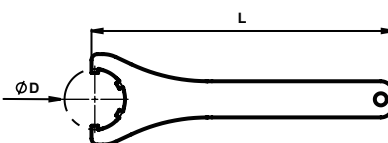
HEX WRENCH

HEX WRENCH

Order Number	Part Name	D	L	NUT	STANDARD	I SYSTEM	remark
T07IR0801	IR08 HEX WRENCH	11	165	NO	NO	YES	
T07IR8S01	IR8S HEX WRENCH	14	165	NO	NO	YES	
T07ER1101	ER11 HEX WRENCH	17	165	ER11 HEX	YES	YES	
T07ER1601	ER16 HEX WRENCH	25	204	ER16 HEX	YES	YES	
T07ER2001	ER20 HEX WRENCH	30	210	ER20 HEX	YES	YES	

Quality

- Forged-alloy steel
- Case-hardened heat treatment



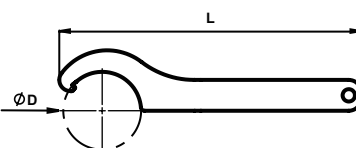
ER WRENCH

ER WRENCH

Order Number	Part Name	D	L	NUT	STANDARD	I SYSTEM	remark
T07ER2502	ER25 WRENCH	42	210	ER25	YES	REDUCTION O	
T07ER3202	ER32 WRENCH	50	250	ER32	YES	REDUCTION O	
T07ER4002	ER40 WRENCH	63	290	ER40	YES	REDUCTION O	

Quality

- Forged-alloy steel
- Case-hardened heat treatment

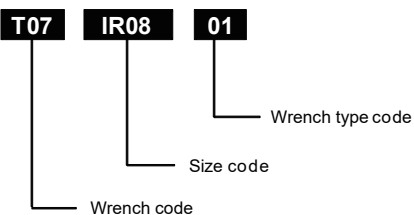


IR WRENCH

IR WRENCH

Order Number	Part Name	D	L	NUT	STANDARD	I SYSTEM	remark
T07IR2004	IR20 WRENCH	34	203	ER20	YES	YES	
T07IR2504	IR25 WRENCH	42	205	ER25	YES	YES	
T07IR3204	IR32 WRENCH	50	240	ER32	YES	YES	
T07IR4004	IR40 WRENCH	63	245	ER40	YES	YES	
T07IR4104	IR41 WRENCH	70	250	NO	NO	YES	
T07IR4204	IR42 WRENCH	85	256	NO	NO	YES	

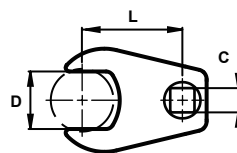
Order Number Instruction



WRENCH DRIVE KEY - T07 TORQUE WRENCH ADAPTOR

Quality

- Forged-alloy steel
- Case-hardened heat treatment



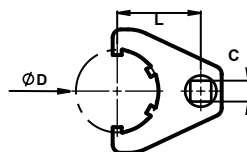
HEX WRENCH ADAPTOR

HEX WRENCH ADAPTOR DRIVE KEY TORQUE WRENCH

Order Number	Part Name	D	L mm	L inch	C	NUT	STANDARD	I SYSTEM	remark
T07IR0801-D09	IR08 HEX WRENCH 3/8" ADAPTOR	11	50.8	2"	3/8"	NO	NO	YES	
T07IR8S01-D09	IR8S HEX WRENCH 3/8" ADAPTOR	14	50.8	2"	3/8"	NO	NO	YES	
T07ER1101-D09	ER11 HEX WRENCH 3/8" ADAPTOR	17	50.8	2"	3/8"	ER11 HEX	YES	YES	
T07ER1601-D12	ER16 HEX WRENCH 1/2" ADAPTOR	25	50.8	2"	1/2"	ER16 HEX	YES	YES	
T07ER2001-D12	ER20 HEX WRENCH 1/2" ADAPTOR	30	50.8	2"	1/2"	ER20 HEX	YES	YES	

Quality

- Forged-alloy steel
- Case-hardened heat treatment



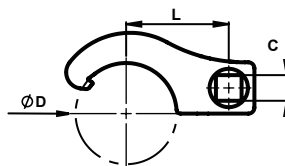
ER WRENCH ADAPTOR

ER WRENCH ADAPTOR DRIVE KEY TORQUE WRENCH

Order Number	Part Name	D	L mm	L inch	C	NUT	STANDARD	I SYSTEM	remark
T07ER2502-D12	ER 25 WRENCH 1/2" ADAPTOR	42	50.8	2"	1/2"	ER25	YES	YES	
T07ER3202-D12	ER 32 WRENCH 1/2" ADAPTOR	50	50.8	2"	1/2"	ER32	YES	YES	
T07ER4002-D12	ER 40 WRENCH 1/2" ADAPTOR	63	50.8	2"	1/2"	ER40	YES	YES	

Quality

- Forged-alloy steel
- Case-hardened heat treatment



IR WRENCH ADAPTOR

IR WRENCH ADAPTOR DRIVE KEY TORQUE WRENCH

Order Number	Part Name	D	L mm	L inch	C	NUT	STANDARD	I SYSTEM	remark
T07IR2004-D12	IR20 WRENCH 1/2" ADAPTOR	34	50.8	2"	1/2"	NO	NO	YES	
T07IR2504-D12	IR25 WRENCH 1/2" ADAPTOR	42	50.8	2"	1/2"	ER25	YES	YES	
T07IR3204-D12	IR32 WRENCH 1/2" ADAPTOR	50	50.8	2"	1/2"	ER32	YES	YES	
T07IR4004-D12	IR40 WRENCH 1/2" ADAPTOR	63	50.8	2"	1/2"	ER40	YES	YES	
T07IR4104-D12	IR41 WRENCH 1/2" ADAPTOR	70	76.2	3"	1/2"	NO	NO	YES	
T07IR4204-D12	IR42 WRENCH 1/2" ADAPTOR	83	76.2	3"	1/2"	NO	NO	YES	

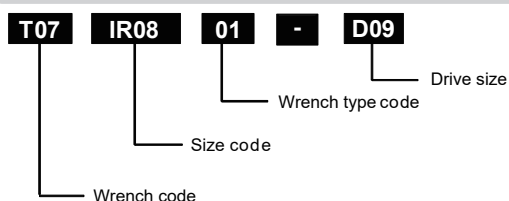


HC WRENCH ADAPTOR

HC WRENCH ADAPTOR DRIVE KEY TORQUE WRENCH

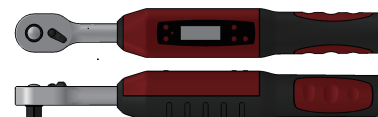
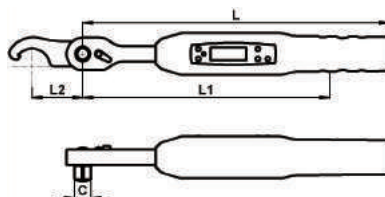
Order Number	Part Name	D	L mm	L inch	C	remark
T07HC0601-D09	4 MM HEX WRENCH 3/8" ADAPTOR	4	150	5.9"	3/8"	
T07HC1001-D09	5 MM HEX WRENCH 3/8" ADAPTOR	5	150	5.9"	3/8"	
T07HC1601-D09	6 MM HEX WRENCH 3/8" ADAPTOR	6	175	6.9"	3/8"	
T07HC1601-D12	6 MM HEX WRENCH 1/2" ADAPTOR	6	175	6.9"	1/2"	

Order Number Instruction



Quality

- Unit: N-m, Kg-cm, Kg-m, in-lb, ft-lb
- Peak and Trace mode
- Auto shut off: 80 Seconds
- Alarm: Buzzer and LED
- Preset: 10

**TORQUE WRENCH DRIVE KEY DIGITAL**

Order Number	Part Name	C inch	L mm	L inch	L1 mm	L1 inch	N-m	ft-lb
T07TWD100-D09	Digital Torque Wrench 100N-m, 3/8"	3/8"	310	12"	250	10"	10-100	7.4-74
T07TWD200-D12	Digital Torque Wrench 200N-m, 1/2"	1/2"	480	19"	390	15"	20-200	15-147
T07TWD310-D12	Digital Torque Wrench 340N-m, 1/2"	1/2"	630	25"	580	23"	68-340	50-250

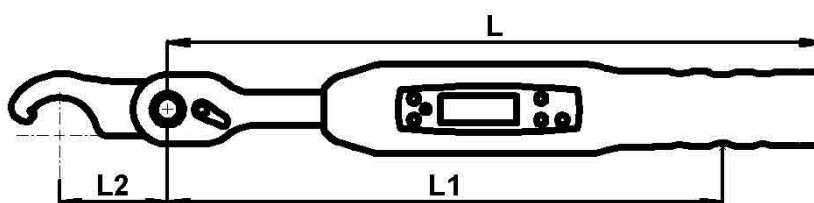
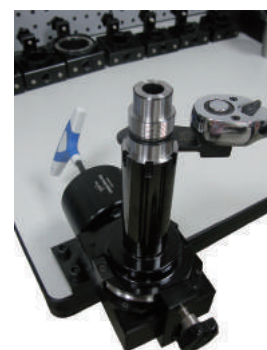


Order Number	Part Name	C inch	L mm	L inch	L1 mm	L1 inch	N-m	ft-lb
T07TWD200V-D12	Digital Torque Wrench 200N-m, 1/2", V	1/2"	480	19"	390	15"	20-200	15-147

Recommended Torque		
ER NUT	N-m	ft-lb
ER08 Mini	5	4
ER11 Mini	16	12
ER16 Mini	24	18
ER20 Mini	28	21
ER11	27	20
ER16	54	40
ER20	81	60
ER25	108	80
ER32	136	100
ER40	176	130

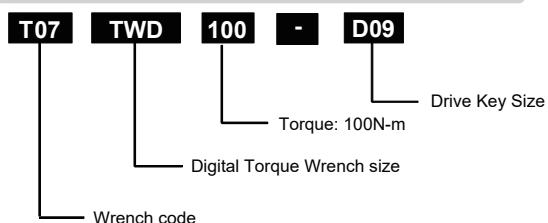


Recommended Torque		
I SYSTEM	N-m	ft-lb
IR08	12	9
IR8S	12	9
IR11	30	22
IR16	60	44
IR20	85	63
IR25	115	85
IR32	140	103
IR40	163	120
IR41	163	120
IR42	163	120



$$\text{Corrected torque reading} = \frac{T \times L1}{L1 + L2}$$

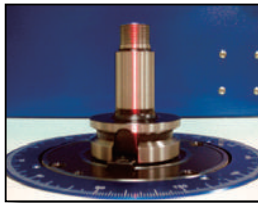
T = Recommended torque

Order Number Instruction

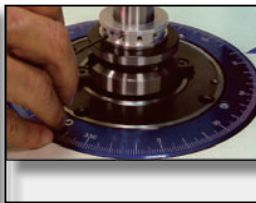
Toolholder balancing ring - Sample Adjusting Process

				Date	2007/3/1
Toolholder	Dynamic balancing w/o tool	Imbalance (g-mm)	Weight (g)	Weight-removed position (degree)	Drilling depth (3mm drill)
BT40 ER20-060	G2.5, 25000rpm	5.7	0.21	103.2	4.8

Imbalance adjusting process



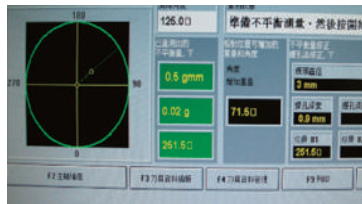
Before adjusting


Attach balancing ring and set screws
Patent pending


After adjusting



Before adjusting



After adjusting

Toolholder Imbalance : 5.7 g-mm

Balancing ring designed at 2.1 g-mm imbalance
Place the ring on the tool at the weight-Removed position

Out of balance(Imbalance) from three M3 set-screw:
1.1 g-mm* 3 pcs = 3.3 g-mm. Add the screws into the ring at the weight-add position

Toolholder imbalance after balancing with the
PrimeTool Balance Ring:
 $5.7-(2.1)-(3.3)=0.3\text{ g-mm}$
