

Static & Live Tooling











MORI SEIKI NL SERIES LATHES

AND NZ, NT AND DURATURN SERIES













ALPS TOOL

Mori Seiki 12-Station, NL, NT4000 and NT5000 Series

LIVE TOOLS - Straight					
	Part Number	Collet	Coolant	Speed	Page
	Straight drill/milling unit				
	T32206	ER32		6000rpm	6
	T32213	ER40		6000rpm	6
	T32232	ER32		3000rpm	7
	T32478	ER32		6000rpm	7
	T32234	ER40		6000rpm	8
	2 spindles straight drill/milling unit				
	T32267	ER16		6000rpm	12
	Offset straight drill/milling unit				
	T32225	ER20		6000rpm	13
	High-grip straight drill/milling unit for milling chuck				
	T32219	20mm		3000rpm	14
	Straight milling unit for shell mill holder				
	T32268	22mm		3000rpm	15
	T32217	1"		3000rpm	15
	Straight drill/milling unit for weldon or whistle notch shank				
	T32227	20mm		3000rpm	17
	T32221	25mm		3000rpm	17
	T32223	1"		3000rpm	18
	Coromant Capto™ straight drill/milling unit				
	T32238	C4		6000rpm	21

LIVE TOOLS - Right Angle					
	Part Number	Collet	Coolant	Speed	Page
	Right angle drill/milling unit				
	T32218	ER32		6000rpm	8
	T32207	ER32		6000rpm	9
	T32214	ER40		6000rpm	9
	T32233	ER32		6000rpm	10
	T32235	ER40		6000rpm	10
	Right angle double spindle drill/milling unit				
	T32216	ER32		6000rpm	11
	T32248	ER40		6000rpm	11
	2 spindles right angle drill/milling unit				
	T32264	ER16		6000rpm	12
	Adjustable right angle drill/milling unit				
	T32474	ER20		4000rpm	13
	High-grip right angle drill/milling unit for milling chuck				
	T32220	20mm		3000rpm	14
	Right angle milling unit for shell mill holder				
	T32269	22mm		3000rpm	16
	T32226	1"		3000rpm	16
	Right angle drill/milling unit for weldon or whistle notch shank				
	T32224	1"		3000rpm	18
	T32228	20mm		3000rpm	19
	T32222	25mm		3000rpm	19
	Coromant Capto™ right angle drill/milling unit				
	T32239	C4		6000rpm	20
	2T3200266	C4		3000rpm	20














STATIC TOOLS					
	Part Number	Output	Type	Coolant	Page
	OD CUTTING HOLDER				
	T00201	1.5"	both sides		22
	T00199	2"	both sides		22
	T00210*	1.18"	Y double		23
	CUT OFF HOLDER				
	T00198	1.02"	Cut-off holder, right hand		23
	FACE AND ID CUTTING HOLDER				
	T03014	1.5"	Face and ID cutting		24
	T03013	2"	Face and ID cutting		24
	BORING BAR HOLDER				
	T10101*	1.5"	Boring bar holder		25
	T10102*	2"	Boring bar holder		25
	T13130*	1.5"	Combination holder		26
	T10100*	1.25"	Boring bar, both sides		26
	BORING BAR HOLDER - WITH SLOT				
	T10142*	2"	Boring bar holder w/slot		27
	T10143*	1.5"	Boring bar holder w/slot		27
	OD AND ID CAPTO HOLDER				
	T12068	C5	ID Capto holder		28
	T12069	C5	ID both side Capto		28
	T00209	C5	OD both side Capto		29
	T00208	C5	OD Capto holder		29

*For Mori Seiki 12-station NL Series only.

Mori Seiki 20-Station, NL, DuraTurn, NZ and NT3000 Series



LIVE TOOLS - Straight					
	Part Number	Collet	Coolant	Speed	Page
	Straight drill/milling unit				
	T32254	ER20		6000rpm	30
	T32274	ER25		6000rpm	30
	T32475	ER32		6000rpm	31
	T32286	ER16		10000rpm	31
T32287	ER20		6000rpm	32	
	Offset straight drill/milling unit				
	T32279	ER20		6000rpm	36
	Straight milling unit for shell mill holder				
	T32280	22mm		2000rpm	37
	Coromant Capto™ straight drill/milling unit				
	T32290	C3		6000rpm	38

LIVE TOOLS - Right Angle					
	Part Number	Collet	Coolant	Speed	Page
	Right angle drill/milling unit				
	T32288	ER20		6000rpm	32
	T32255	ER20		6000rpm	33
	T32275	ER25		6000rpm	33
	T32476	ER32		6000rpm	34
	T32293	ER16		10000rpm	34
	Right angle double spindle drill/milling unit				
	T32271	ER20		6000rpm	35
	T32276	ER25		6000rpm	35
	Adjustable right angle drill/milling unit				
	T32289	ER16		4000rpm	36
	Right angle milling unit for shell mill holder				
	T32292	22mm		2000rpm	37
	Coromant Capto™ right angle drill/milling unit				
	T32291	C3		6000rpm	38

STATIC TOOLS					
	Part Number	Output	Type	Coolant	Page
	OD CUTTING HOLDER				
	T00234	1.5"	OD cutting, short		39
	T00235	1.5"	OD cutting, long		39
	OD CUTTING HOLDER - BOTH SIDES				
	T00250*	1.5"	short, both sides		40
	T00249*	1.5"	long, both sides		40
	FACE AND ID CUTTING HOLDER				
	T03018	1.5"	Face and ID cutting		41
	CUT-OFF HOLDER				
	T00252	0.77"	boring bar, right hand		41
	BORING BAR HOLDER				
	T10119	1.25"	Boring bar holder		42
	T10139*	1"	both sides		42
	COMBINATION HOLDER				
	T13135	1.25"	Combination holder		43
	OD AND ID CAPTO HOLDER				
	T12074	C4	OD Capto holder		44
	T12075	C4	ID Capto holder		44
	AC4-AMS100-WA	C4	OD both sides		45
	AC4-AMS100-WB	C4	ID both sides		45

*Not Suitable for Mori Seiki DuraTurn Series.

Special Live Tool Inquiry Form

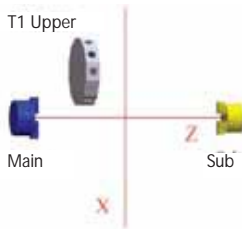
Fax: (847) 367-4815
 Email: inquiries@lyndexnikken.com

Fill in the form below and fax it to (847) 367-4815, or visit www.lyndexnikken.com and complete the form online. Lyndex-Nikken engineers will help you to determine the best live tool for your application.

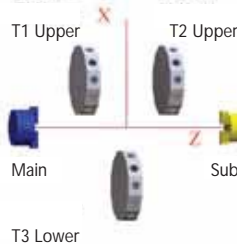
Company _____ Name _____
 Address _____
 Zip _____ City _____
 Phone _____ E-mail _____

Please specify machine model and turret configuration (12 or 20 stations):

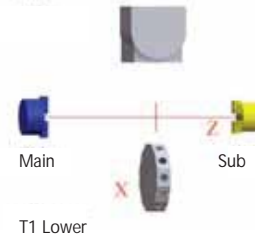
NL and DuraTurn Series



NZ Series



NT Series



12 station turret



20 station turret



Please specify design configuration:

Standard: 1) straight
2) 90° (reducer/speeder)

Offset: 1) straight
2) 90°

Saw Blade Holder: 1) straight
2) 90°

Multi Output: 1) straight
2) 90°

Offset Multi Output: 1) straight
2) 90°

Adjustable Y straight

Adjustable Angle

Fixed Angle

Please specify holding system and cutting tool specifications:

Holding System

Preferred type of holding system (ER, Shrink Fit, Shell Mill Arbor, etc.): _____

Application and Cutting Tool Specifications

Type of material: _____

Type and nature of application (milling, drilling, reaming, slitting, etc.): _____

Size of cutter (diameter): _____ Overall length of cutter: _____

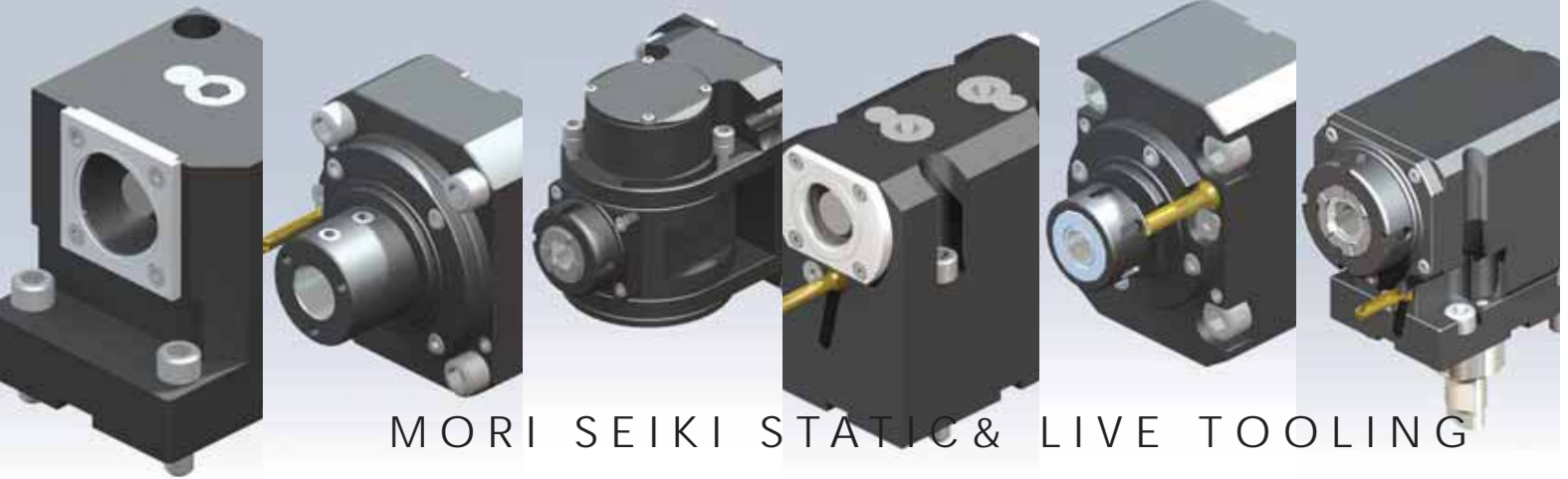
Flute length: _____ Requested RPM: _____ Requested torque: _____

Coolant Requirements

External/Internal: _____ Requested pressure capabilities: _____

2 Number of nozzle ports: _____ Coolant pipe design or configuration specifications: _____

Table of Contents



MORI SEIKI STATIC & LIVE TOOLING

<i>General Matrix</i>	<i>Inside cover-1</i>
<i>Special Live Tool Inquiry Form</i>	2
<i>Table of Contents</i>	3
<i>Introduction</i>	4
<i>Features and Technology</i>	5
<i>Live Tools for Mori Seiki 12-Station, NL, NT4000 & NT5000 Series</i>	6-21
<i>Static Tools for Mori Seiki 12-Station, NL, NT4000 & NT5000 Series</i>	22-29
<i>Live Tools for Mori Seiki 20-Station, NL, DuraTurn, NZ & NT3000 Series</i>	30-38
<i>Static Tools for Mori Seiki 20-Station, NL, DuraTurn, NZ & NT3000 Series</i>	39-45
<i>How to Choose Cutting Heads for Capto Static Tools</i>	46
<i>Capto Holders</i>	47-49
<i>ER Series Collets and Tap Collets</i>	50-53
<i>Replacement Parts and Milling Chuck Collets</i>	54
<i>Torque Wrench, Wrench Usage, Warranty and Service</i>	55-56
<i>Accessories</i>	57

Specials

Custom-made live tools can be engineered for your specific application. Please direct your request to our office (see special live tool inquiry form). Our engineering staff is ready to assist you with your specific tooling needs.





Maximize the capabilities of your Mori Seiki Machine

Mori Seiki has selected Alps/Lyndex-Nikken live tools for inclusion in their MSQP (Mori Seiki Qualified Peripherals) program to ensure that peripheral equipment used on their lathes and machining centers is consistent both in terms of quality and performance.

Alps live tooling for Lyndex-Nikken offers the latest technology you can expect for turning operations. Designed and manufactured directly with Mori Seiki engineers in Japan, our live tools have features and benefits unmatched by the competition. Gears, bearings, seals, every part is built to provide the highest accuracy, rigidity and stability.

With more than 30 years of tooling engineering and manufacturing experience, Lyndex-Nikken live tooling will maximize the capabilities of your machine, and keep you far ahead of the global competition. We understand that exceptional quality is key to your business. Let the manufacturers who share your philosophy in producing live tools join you in doing what you do best - machining the highest quality parts.

Enhanced with Alps/Lyndex-Nikken live tooling, your Mori Seiki machine will allow you to reduce cycle times, eliminate extra operations and achieve maximum efficiency.

Parts inventory, maintenance and repair, and rebuild services are available through Lyndex-Nikken.



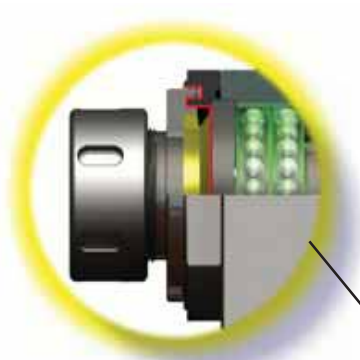
Lyndex-Nikken is an official Mori Seiki Qualified Peripherals (MSQP) supplier.



Lyndex-Nikken live tools are manufactured by Alps Tool Co. Ltd.

FEATURES AND TECHNOLOGY

As an authorized OEM supplier to Mori Seiki, Lyndex-Nikken live tools are designed and manufactured in conjunction with Mori Seiki engineers at the factory in Japan.



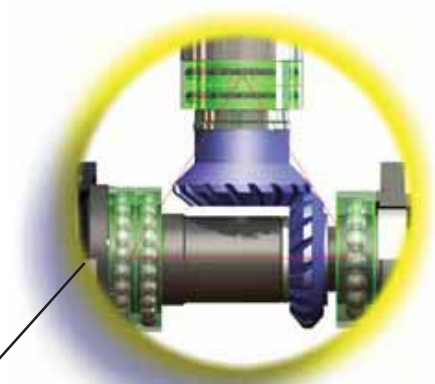
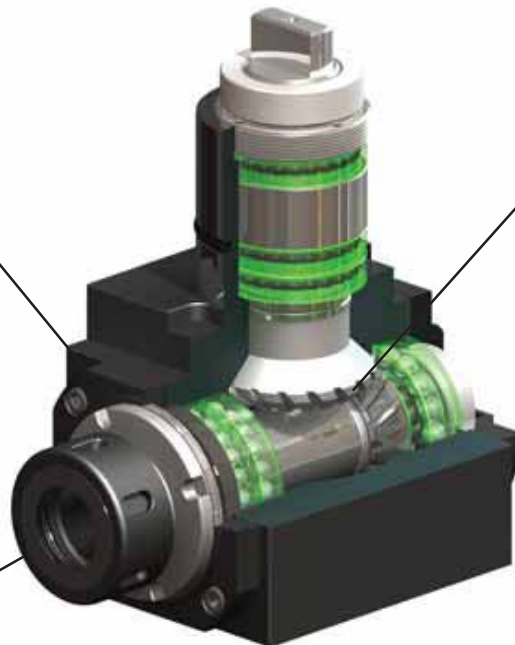
Protective Seals

- **Labyrinth Seals** - provide a high-pressure multi-barrier construction that prevents contaminants and coolant from entering the main chamber.



Eccentric Bearing Nut

- **Ground Eccentric Nut** - allows for fine accuracy and strong tool shank gripping capacity by preventing collet twisting or rocking.
- **Runout** - guarantee of under 5-micron repeatability at collet nose.



Gears for Stability

- **Gear Pairing** - hand-matched for each pair to minimize backlash.
- **Gear Design** - custom ground spiral bevel gear tooth design maximizes drive torque output and reduces tooth root stress allowing for more tool longevity.
- **Gear Equilibrium** - placement of bearings balance torque stress evenly through input/output shafts.

Tool Design and Engineering

- **Tool Body** - manufactured from the highest tensile and compression Nickel Chrome Molybdenum alloys.
- **Drive Shafts** - all features are ground on both the input and output Chrome Molybdenum drive shafts to assure proper torque transmission and precision concentricity.
- **Bearing Quality** - only the highest precision ABEC 7 angular contact bearings are used for smooth and high speed rotation.
- **Quality Control** - all live tools go through a vigorous 60-point final inspection to satisfy the highest expectations of live tool performance.



12 Station - Live Tool

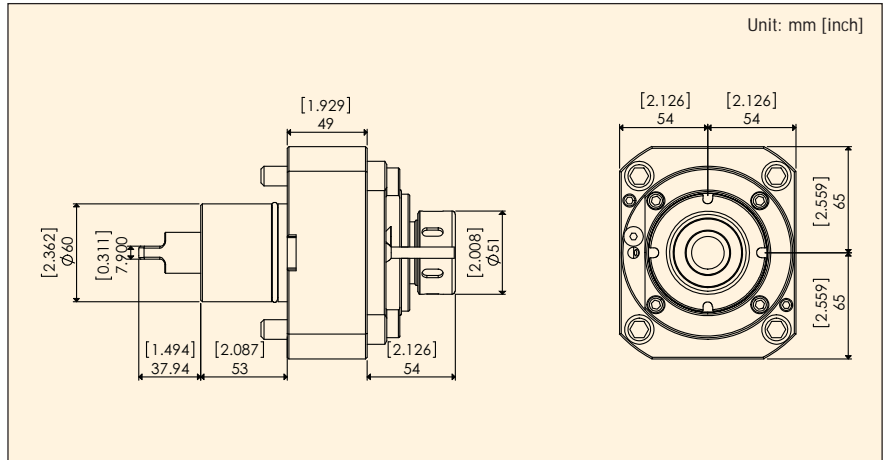
OD Drill/Milling Unit

Part Number: T32206



Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench	
									for Spindle	for Nut
External	Radial	6000	1:1	29.5ft-lbs (40N-m)	120	ER32 (1/8" to 25/32")	NA32	HI103-37110	FK-10	FK-8

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.

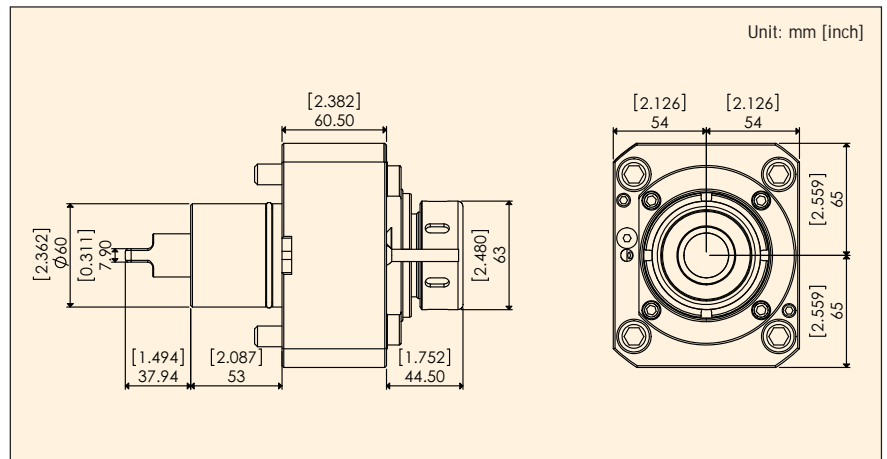
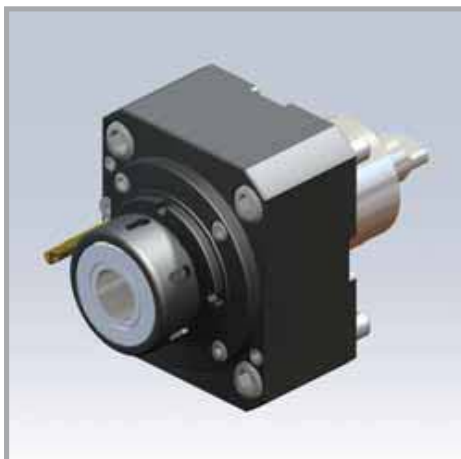
OD Drill/Milling Unit

Part Number: T32213



Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench	
									for Spindle	for Nut
External	Radial	6000	1:1	29.5ft-lbs (40N-m)	120	ER40 (5/32" to 1")	NA40	HI103-37110	FK-10	FK-9

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.



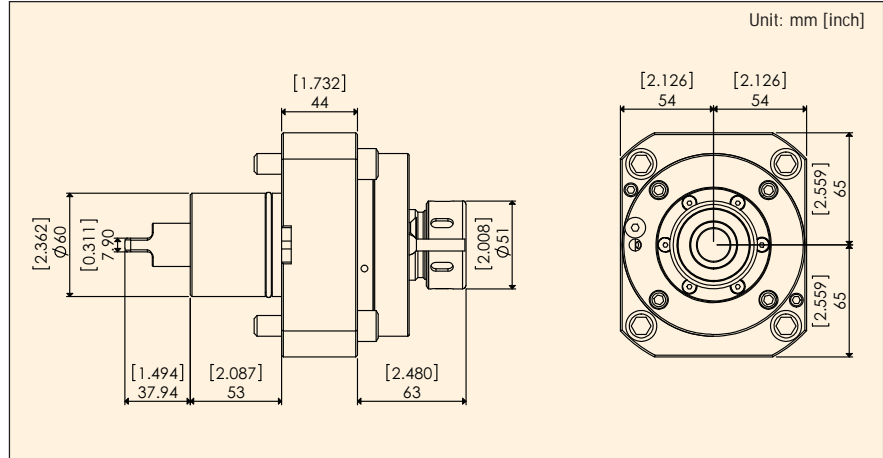
OD Drill/Milling Unit

Part Number: T32232



Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench	
									for Spindle	for Nut
Internal	Radial	3000	1:1	29.5ft-lbs (40N-m)	200	ER32 (1/8" to 25/32")	NA32	MT100-31090	FK-10	FK-8

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.

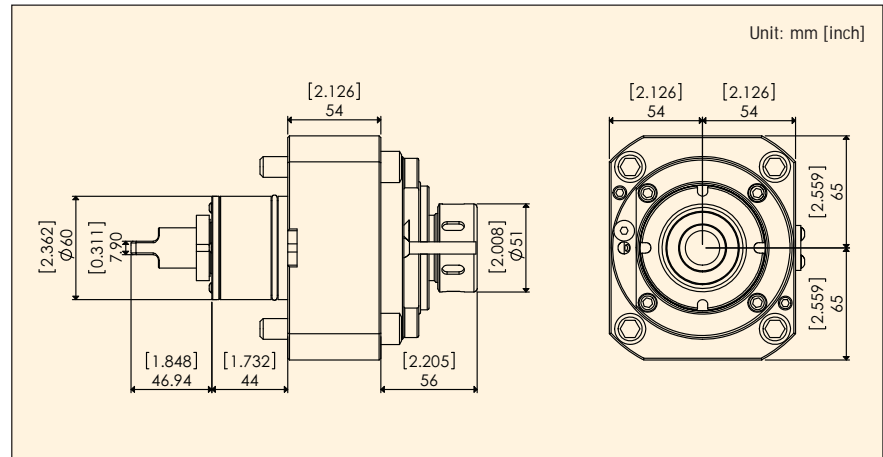
OD Drill/Milling Unit

Part Number: T32478



Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench	
									for Spindle	for Nut
Internal	Radial	6000	1:1	29.5ft-lbs (40N-m)	1000	ER32 (1/8" to 25/32")	NA32	HI103-37110	FK-10	FK-8

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.



12 Station - Live Tool

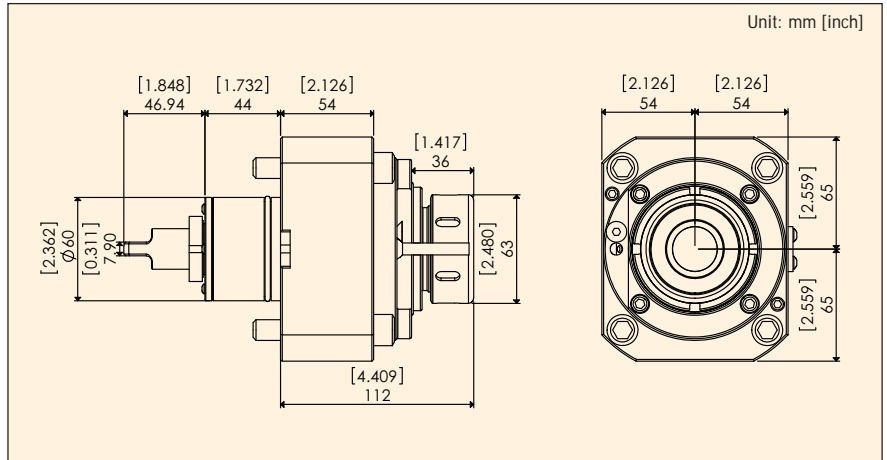
OD Drill/Milling Unit

Part Number: T32234



Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench	
									for Spindle	for Nut
Internal	Radial	6000	1:1	29.5ft-lbs (40N-m)	1000	ER40 (5/32" to 1")	NA40	HI103-37110	FK-10	FK-9

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.

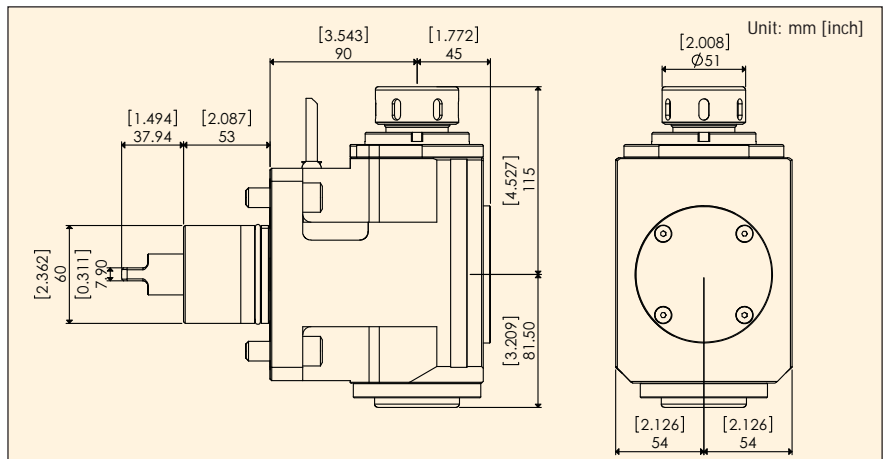
High Accuracy Face Drill/Milling Unit

Part Number: T32218

Counter Clockwise Input



Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench	
										for Spindle	for Nut
External	Axial	6000	1:1	29.5ft-lbs (40N-m)	120	90	ER32 (1/8" to 25/32")	NA32	HI103-37110	FK-10	FK-8

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.



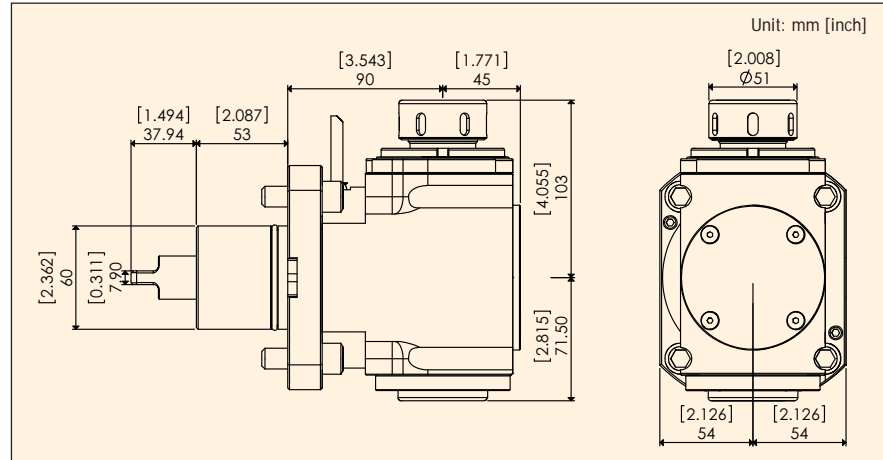
Face Drill/Milling Unit

Part Number: T32207



Counter Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench for Spindle for Nut	
External	Axial	6000	1:1	29.5ft-lbs (40N-m)	120	90	ER32 (1/8" to 25/32")	NA32	HI103-37110	FK-10	FK-8

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.

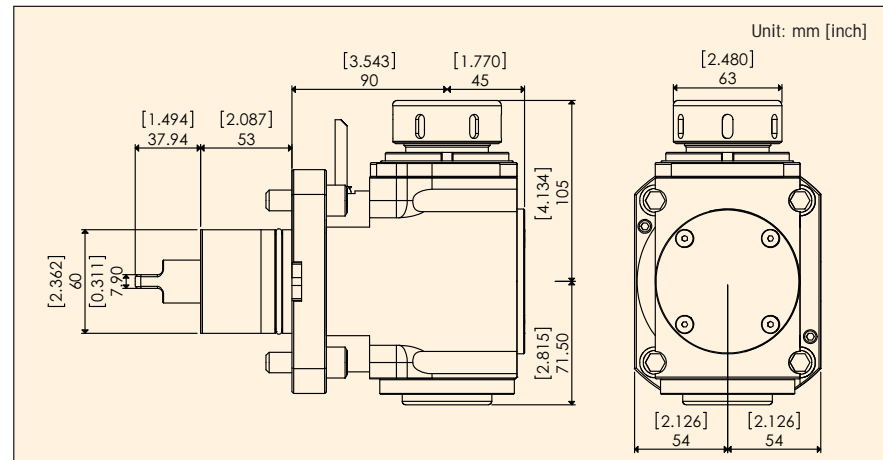
Face Drill/Milling Unit

Part Number: T32214



Counter Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench for Spindle for Nut	
External	Axial	6000	1:1	29.5ft-lbs (40N-m)	120	90	ER40 (5/32" to 1")	NA40	HI103-37110	FK-10	FK-9

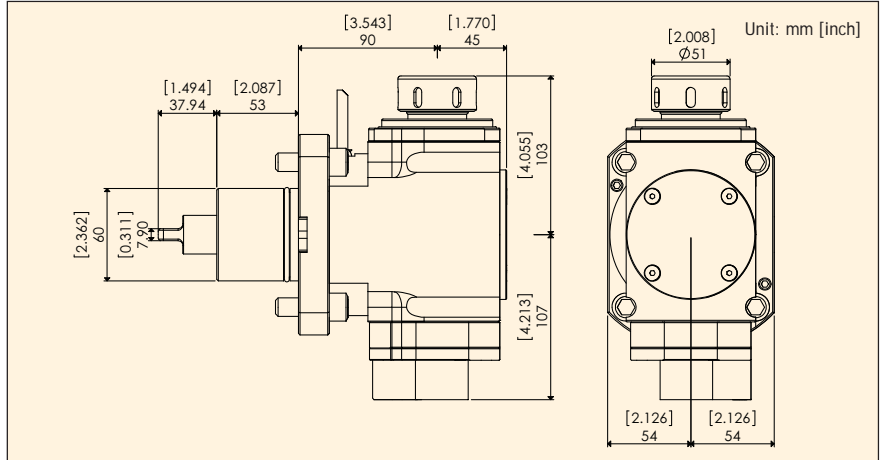
Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.



12 Station - Live Tool

Face Drill/Milling Unit

Part Number: T32233

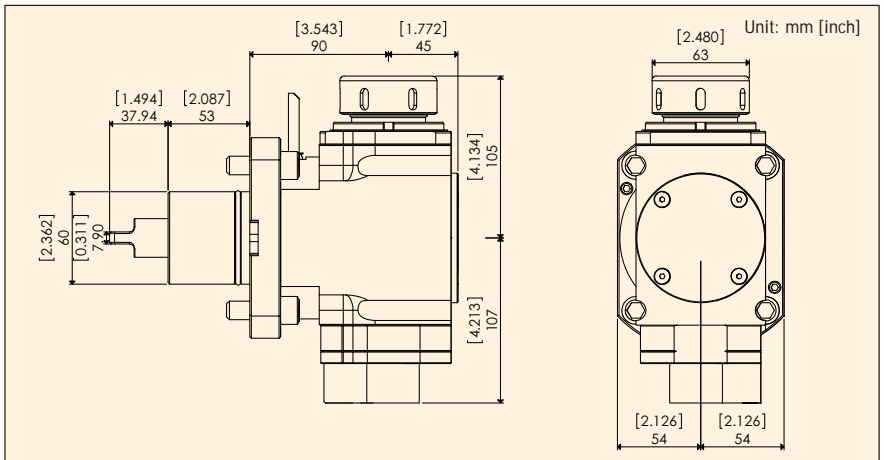


External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench	
										for Spindle	for Nut
Internal	Axial	6000	1:1	29.5ft-lbs (40N-m)	1000	90	ER32 (1/8" to 25/32")	NA32	HI103-37110	FK-10	FK-8

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.

Face Drill/Milling Unit

Part Number: T32235



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench	
										for Spindle	for Nut
Internal	Axial	6000	1:1	29.5ft-lbs (40N-m)	1000	90	ER40 (5/32" to 1")	NA40	HI103-37110	FK-10	FK-9

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.



12 Station - Live Tool

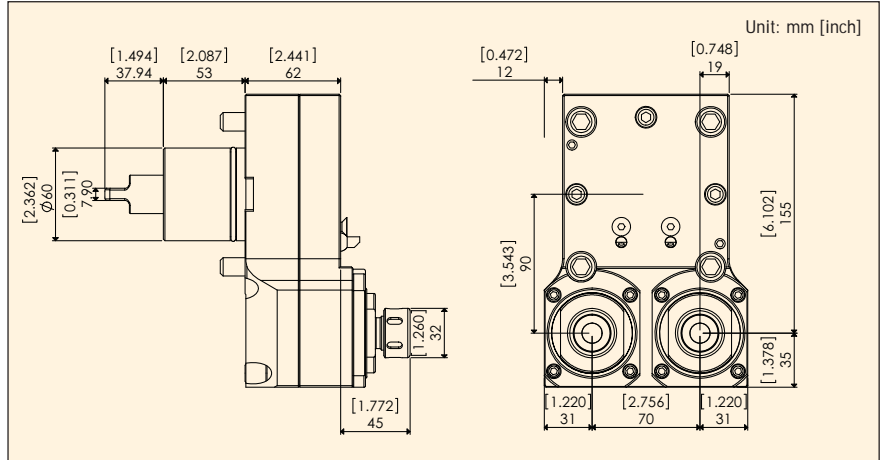
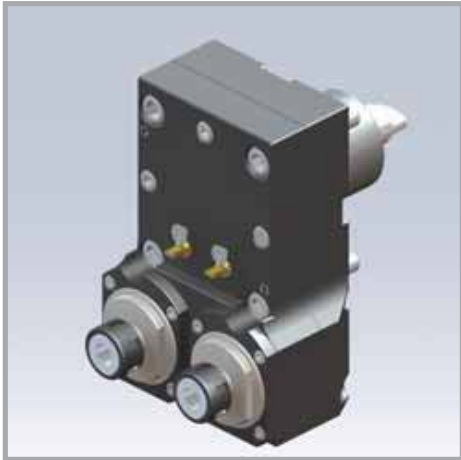
2 Spindles OD Drill/Milling Unit

Part Number: T32267



Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/ Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench	
									for Spindle	for Nut
External	Radial	6000	1:1	29.5ft-lbs (40N-m)	120	ER16 (1/64" to 13/32")	NA16	HI103-37110	SP-41	FK-4

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.

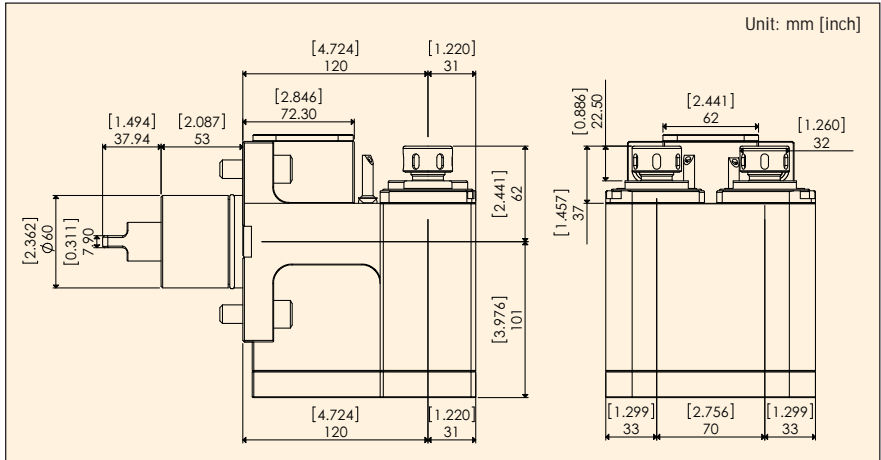
2 Spindles Face Drill/Milling Unit

Part Number: T32264



Counter Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/ Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench	
										for Spindle	for Nut
External	Axial	6000	1:1	29.5ft-lbs (40N-m)	120	120	ER16 (1/64" to 13/32")	NA16	MT100-30140	SP-41	FK-4

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.



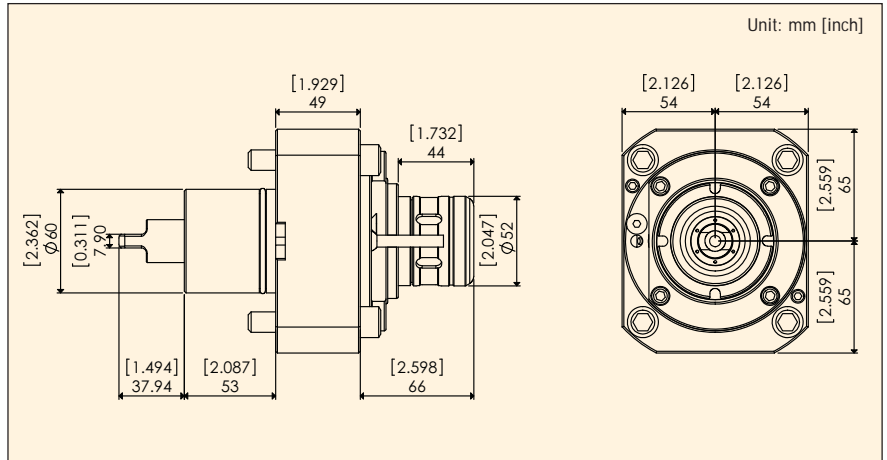
12 Station - Live Tool

20mm/ 3/4" Milling Chuck Holder, Straight

Part Number: T32219

Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Collet Size	Coolant Nozzle	Spanner Wrench	
								for Spindle	for Nut
External	Radial	3000	1:1	29.5ft-lbs (40N-m)	120	Milling Chuck 20mm or 3/4"	HI103-37110	FK-10	FK-8

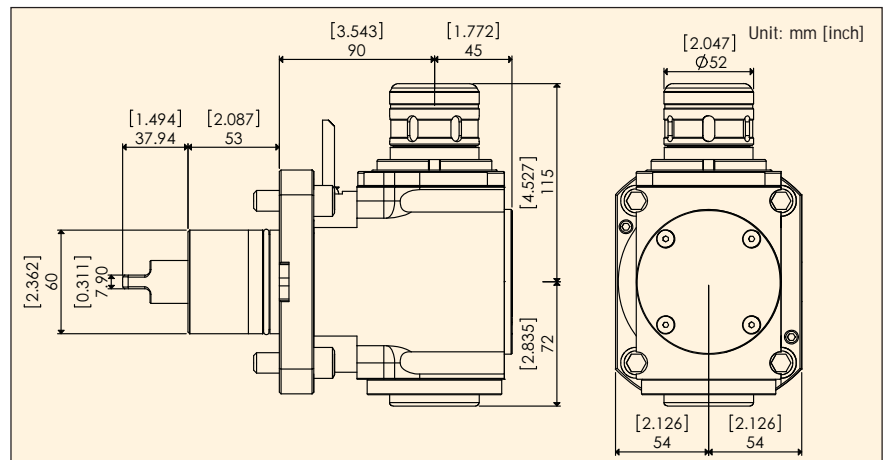
Please refer to page 54 for Milling Chuck KM Collet details.

20mm/ 3/4" Milling Chuck Holder, Right Angle

Part Number: T32220

Counter Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Collet Size	Coolant Nozzle	Spanner Wrench	
									for Spindle	for Nut
External	Axial	3000	1:1	29.5ft-lbs (40N-m)	120	90	Milling Chuck 20mm or 3/4"	HI103-37110	FK-10	FK-8

Please refer to page 54 for Milling Chuck KM Collet details.

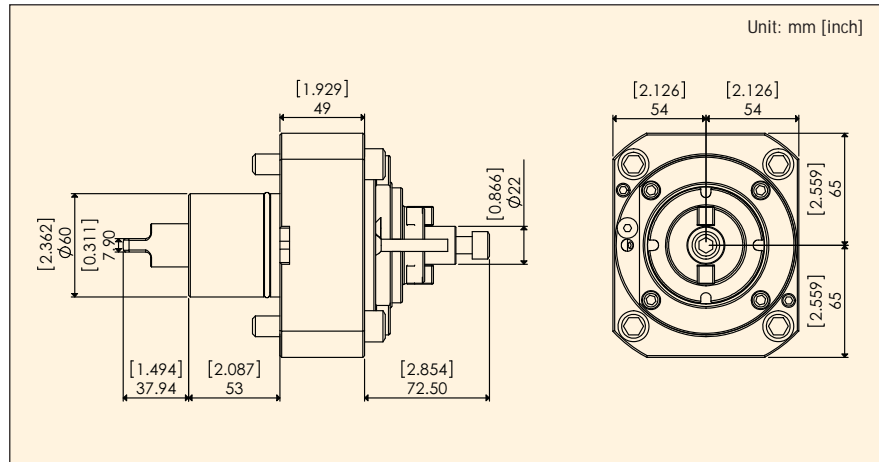


Shell Mill Unit with 22mm Mill Arbor

Part Number: T32268

Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Arbor Size	Coolant Nozzle	Spanner Wrench for Spindle
External	Radial	3000	1:1	29.5ft-lbs (40N-m)	120	22mm	HI103-37110	FK-10

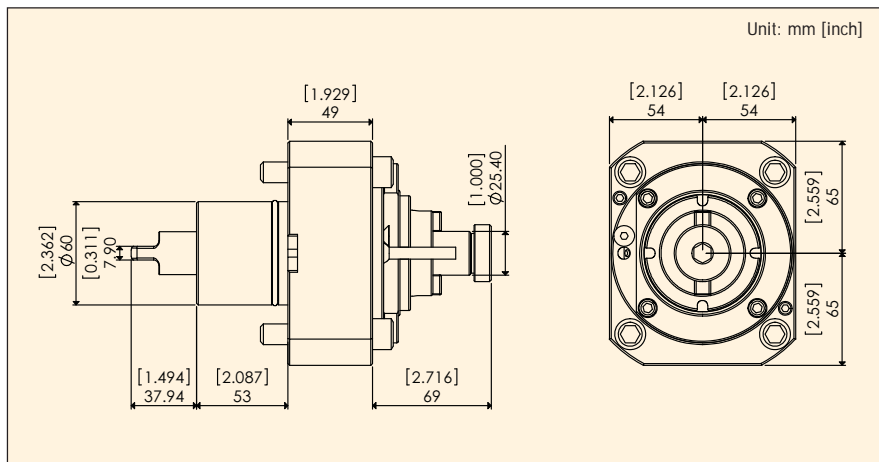
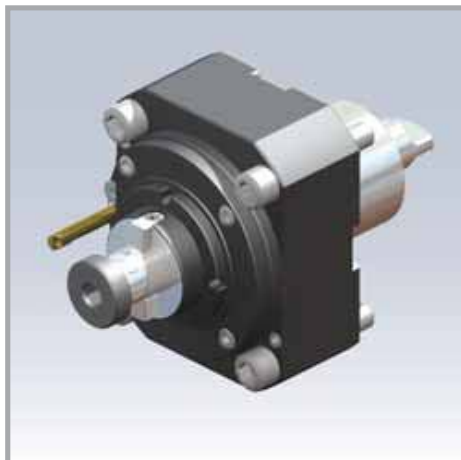
Replacement Arbor Screws for Shell Mill Holders available. See details on page 54.

Shell Mill Unit with 1" Mill Arbor

Part Number: T32217

Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Arbor Size	Coolant Nozzle	Spanner Wrench for Spindle
External	Radial	3000	1:1	29.5ft-lbs (40N-m)	120	1"	HI103-37110	FK-10

Replacement Arbor Screws for Shell Mill Holders available. See details on page 54.



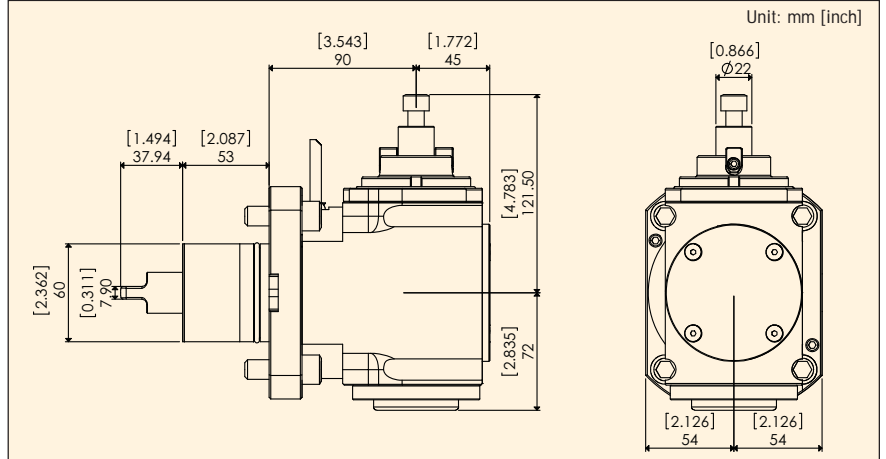
12 Station - Live Tool

Face Milling Unit with 22mm Mill Arbor

Part Number: T32269

Counter Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Arbor Size	Coolant Nozzle	Spanner Wrench for Spindle
External	Axial	3000	1:1	29.5ft-lbs (40N-m)	120	90	22mm	HI103-37110	FK-10

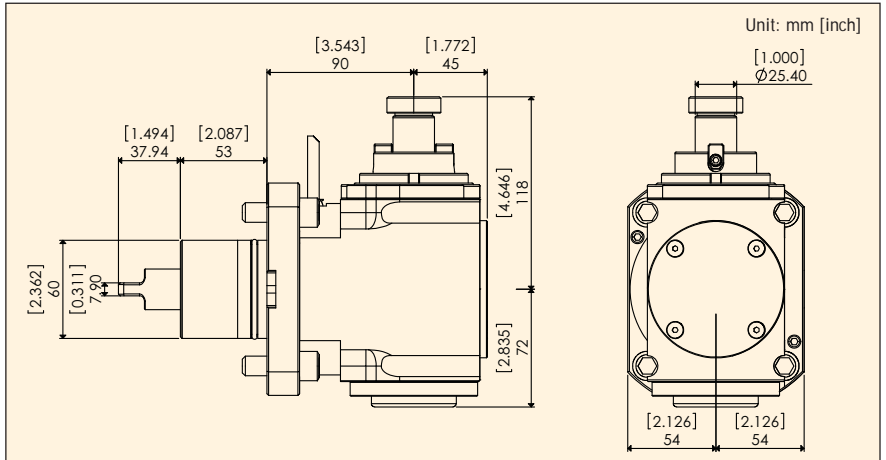
Replacement Arbor Screws for Shell Mill Holders available. See details on page 54.

Face Milling Unit with 1" Mill Arbor

Part Number: T32226

Counter Clockwise Input

Clockwise Output



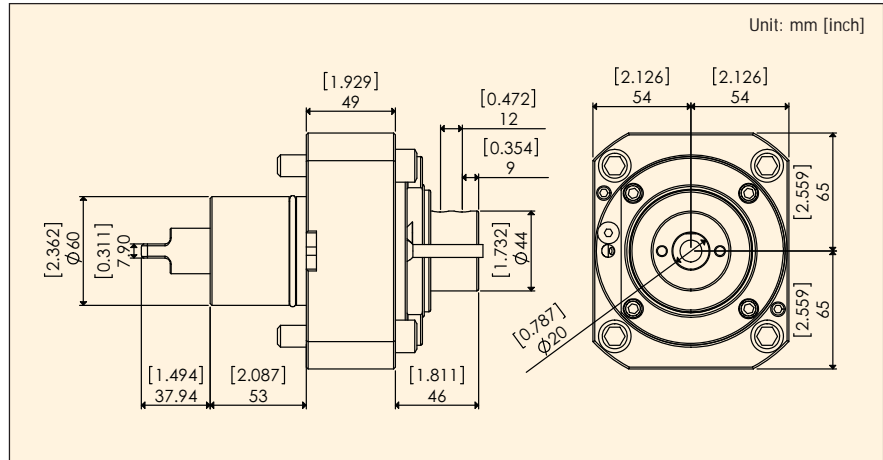
External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Arbor Size	Coolant Nozzle	Spanner Wrench for Spindle
External	Axial	3000	1:1	29.5ft-lbs (40N-m)	120	90	1"	HI103-37110	FK-10

Replacement Arbor Screws for Shell Mill Holders available. See details on page 54.



20mm OD Drill/Milling Unit Weldon

Part Number: T32227

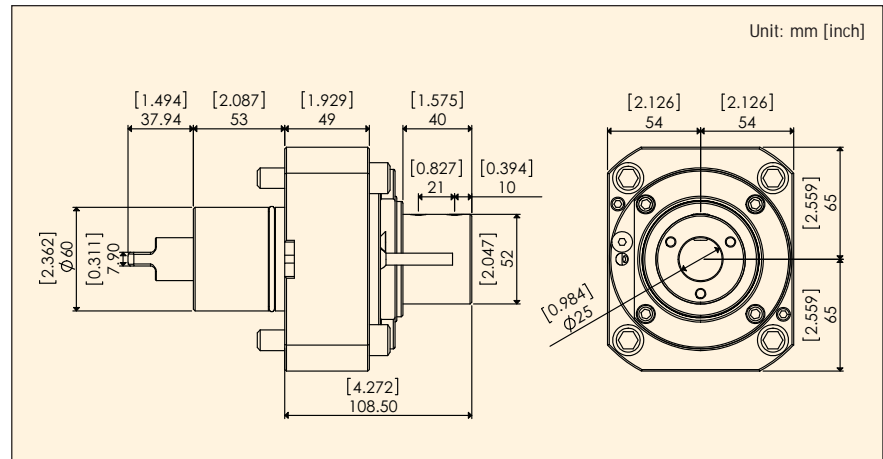


External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Inner Dia.	Coolant Nozzle
External	Radial	3000	1:1	29.5ft-lbs (40N-m)	120	90	20mm	HI103-37110

Replacement Set Screws for End Mill Holders available. See details on page 54.

25mm OD Drill/Milling Unit Weldon

Part Number: T32221



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Inner Dia.	Coolant Nozzle
External	Radial	3000	1:1	29.5ft-lbs (40N-m)	120	90	25mm	HI103-37110

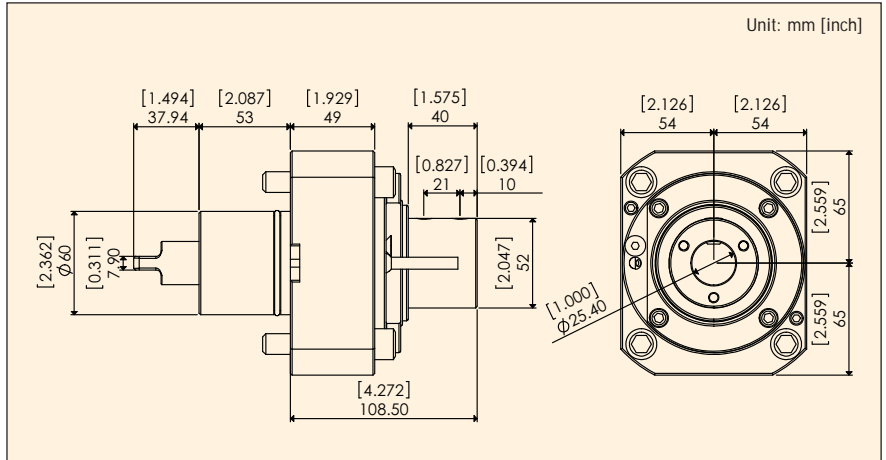
Replacement Set Screws for End Mill Holders available. See details on page 54.



12 Station - Live Tool

1" OD Drill/Milling Unit Weldon

Part Number: T32223

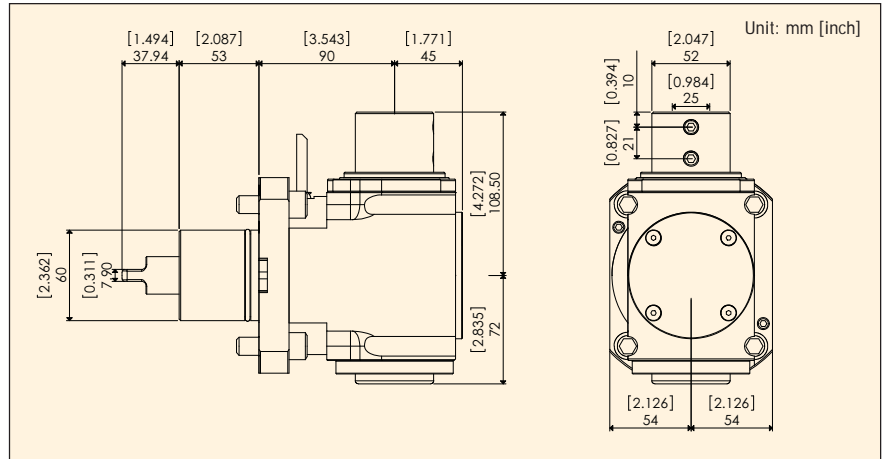
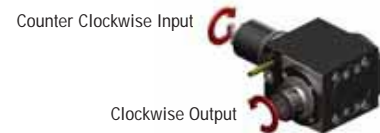


External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Inner Dia.	Coolant Nozzle
External	Radial	3000	1:1	29.5ft-lbs (40N-m)	120	90	1"	HI103-37110

Replacement Set Screws for End Mill Holders available. See details on page 54.

1" Face Drill/Milling Unit Weldon

Part Number: T32224



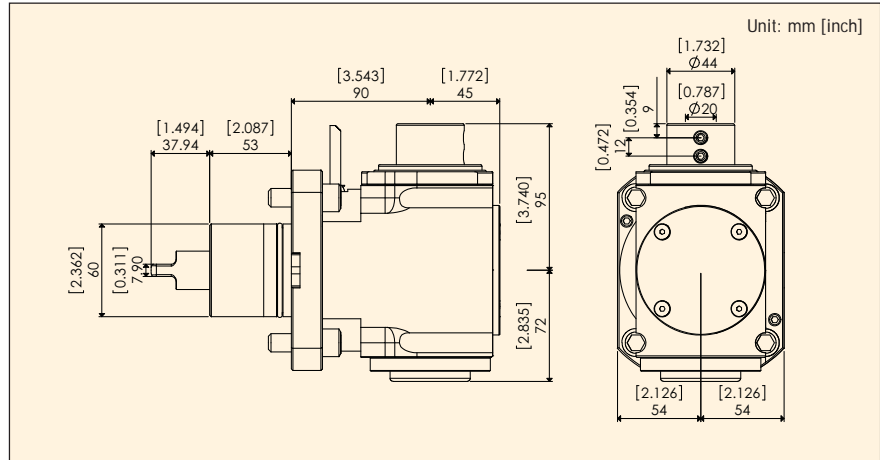
External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Inner Dia.	Coolant Nozzle
External	Axial	3000	1:1	29.5ft-lbs (40N-m)	120	1"	HI103-37110

Replacement Set Screws for End Mill Holders available. See details on page 54.



20mm Face Drill/Milling Unit Weldon

Part Number: T32228

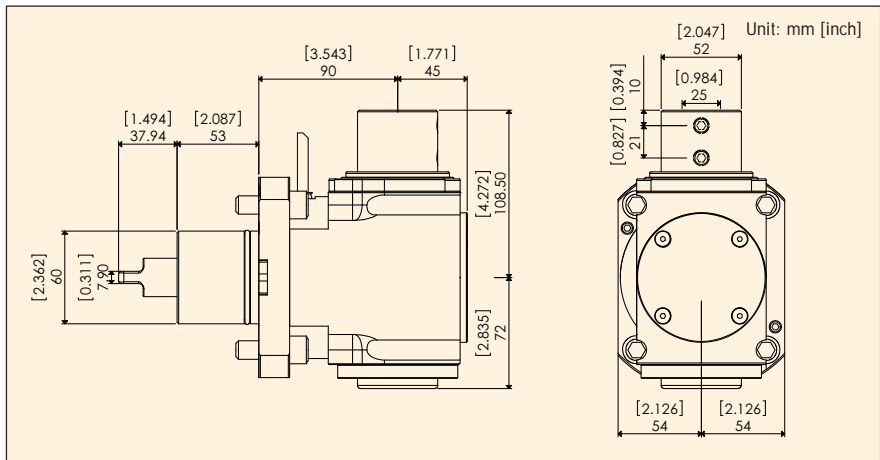
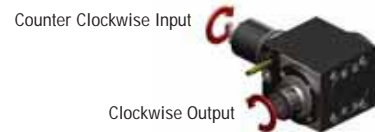


External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Inner Dia.	Coolant Nozzle
External	Axial	3000	1:1	29.5ft-lbs (40N-m)	120	20mm	HI103-37110

Replacement Set Screws for End Mill Holders available. See details on page 54.

25mm Face Drill/Milling Unit Weldon

Part Number: T32222



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Inner Dia.	Coolant Nozzle
External	Axial	3000	1:1	29.5ft-lbs (40N-m)	120	25mm	HI103-37110

Replacement Set Screws for End Mill Holders available. See details on page 54.



12 Station - Live Tool

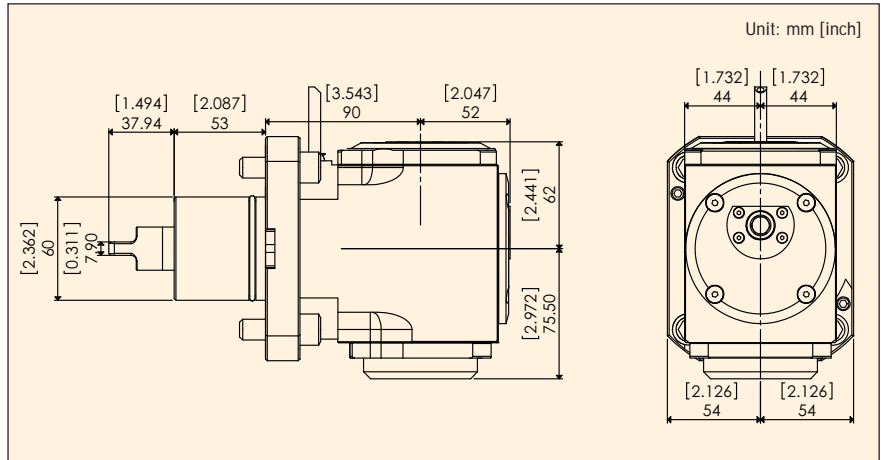
Capto C4 Face Drill/Milling Unit

Part Number: T32239



Counter Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Capto Size	Coolant Nozzle	Torque Wrench
External	Axial	6000	1:1	29.5ft-lbs (40N-m)	120	90	C4	HI103-37110	TQW-150 + TQW-CAPTO4(10)

"Cam-Lock, Quick-Change" type tool. Please refer to pages 47 - 49 for Capto Holders and to page 55 for Torque Wrench details.

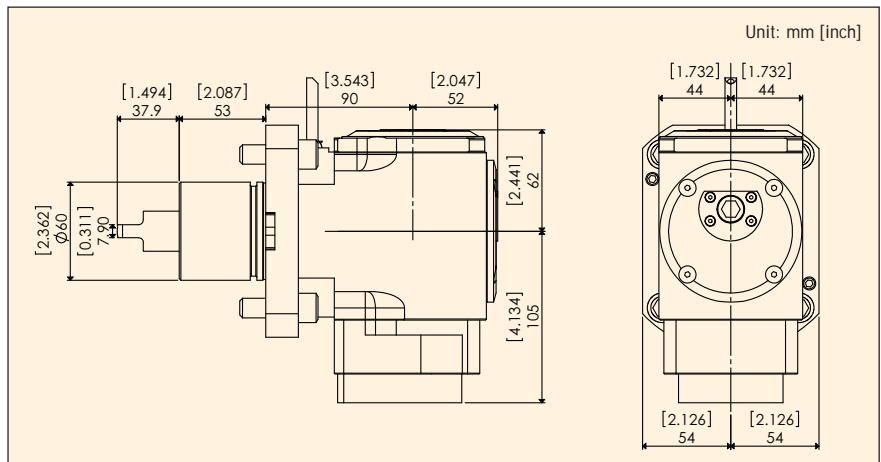
Capto C4 Face Drill/Milling Unit

Part Number: 2T3200266



Counter Clockwise Input

Clockwise Output



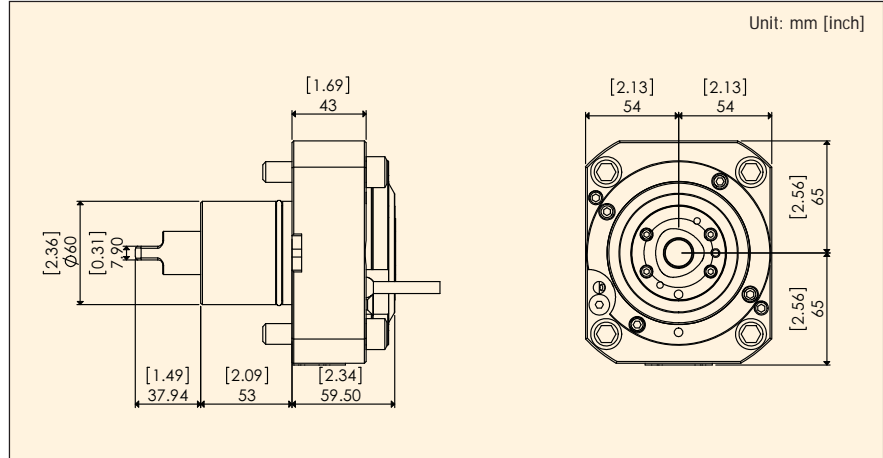
External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Capto Size	Coolant Nozzle	Torque Wrench
Internal	Axial	3000	1:1	29.5ft-lbs (40N-m)	200	90	C4	HI103-37110	TQW-150 + TQW-CAPTO4(10)

"Cam-Lock, Quick-Change" type tool. Please refer to pages 47 - 49 for Capto Holders and to page 55 for Torque Wrench details.



Capto C4 OD Drill/Milling Unit

Part Number: T32238



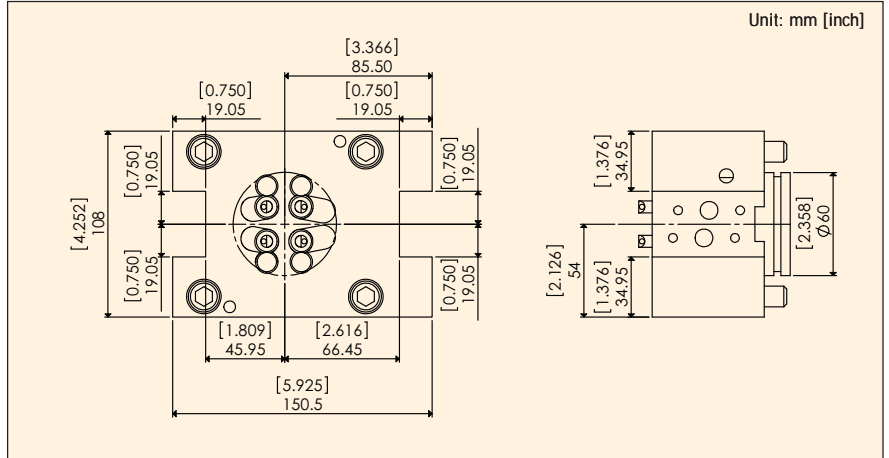
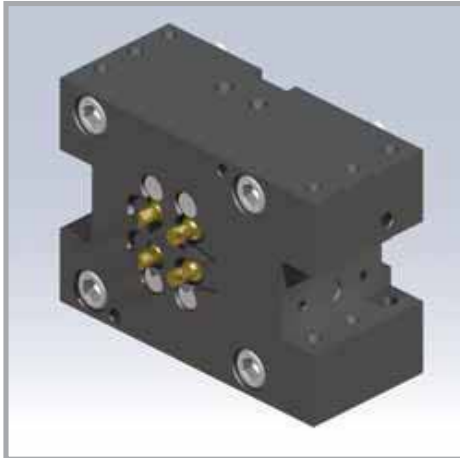
External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Capto Size	Coolant Nozzle	Torque Wrench
External	Radial	6000	1:1	29.5ft-lbs (40N-m)	120	C4	HI103-37110	TQW-150 + TQW-CAPTO4(10)

"Cam-Lock, Quick-Change" type tool. Please refer to pages 47 - 49 for Capto Holders and to page 55 for Torque Wrench details.



OD Cutting Holder, Both Sides

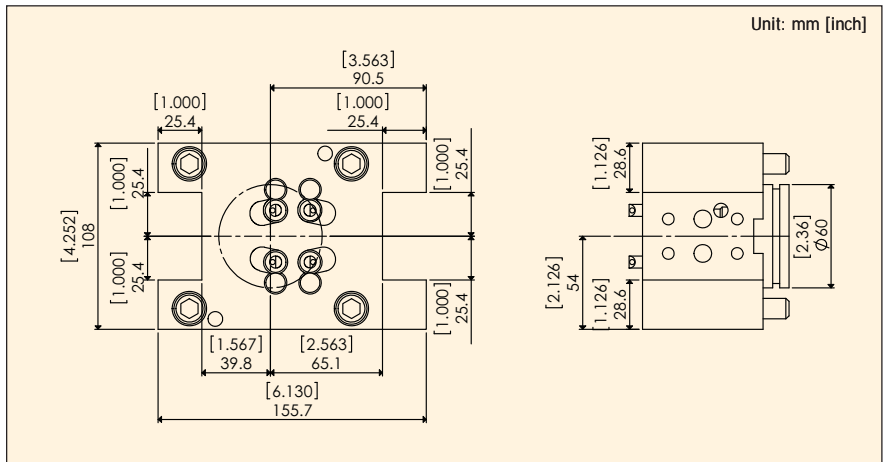
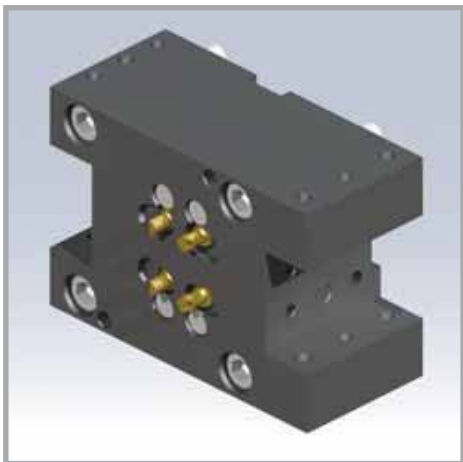
Part Number: T00201



Description	Output Size	Shaft Diameter	Maximum External Pressure
OD Cutting Holder, both sides	1.5" (38.1mm)	2.36" (60mm)	100 PSI

OD Cutting Holder, Both Sides

Part Number: T00199

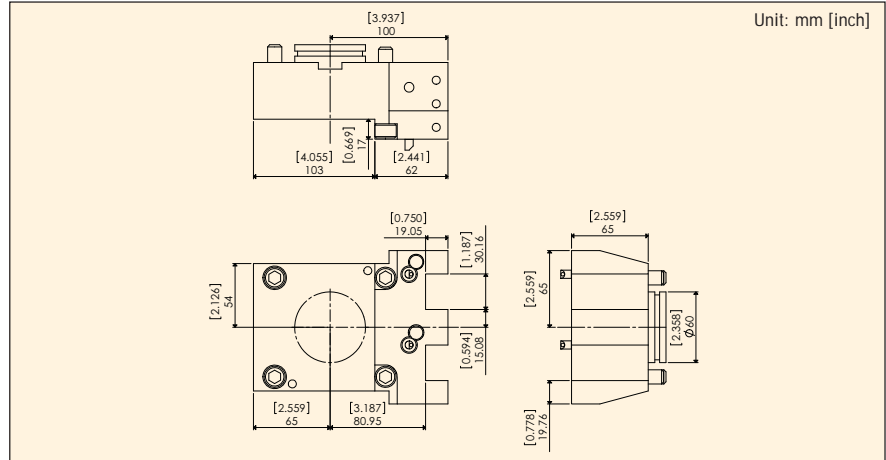
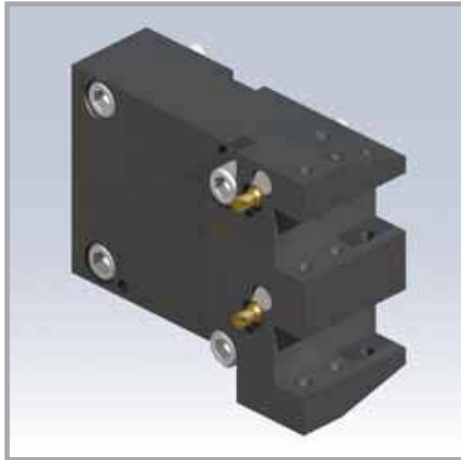


Description	Output Size	Shaft Diameter	Maximum External Pressure
OD Cutting Holder, both sides	2" (50.8mm)	2.36" (60mm)	100 PSI



Y Double OD Cutting Holder

Part Number: T00210

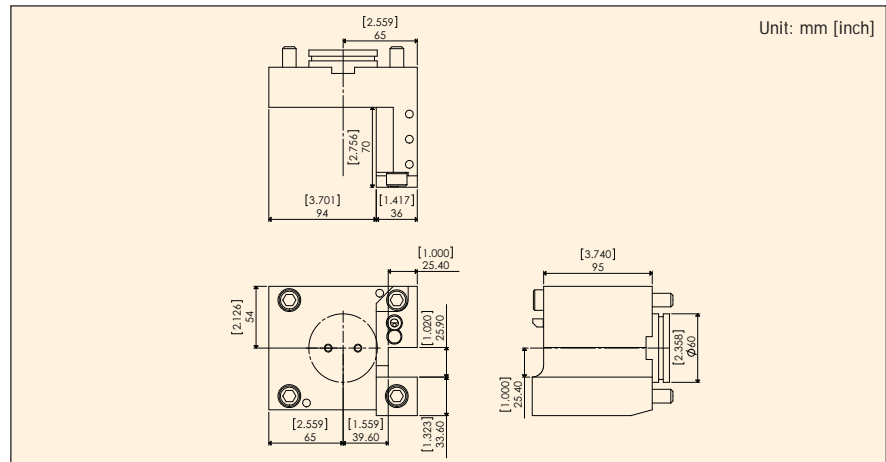
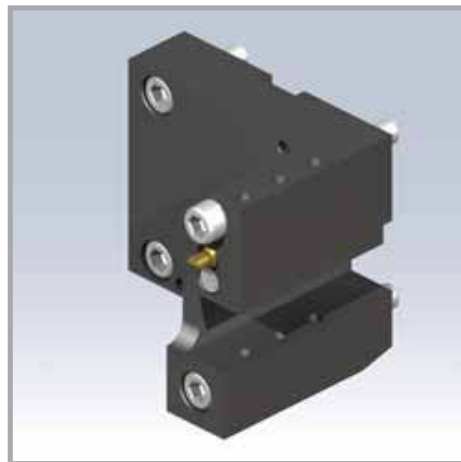


Description	Output Size	Shaft Diameter	Maximum External Pressure
Y Double OD Cutting Holder	1.18" (30.16mm)	2.36" (60mm)	100 PSI

Tool suitable for Mori Seiki 12-station NL Series only.

Cut-Off Holder, Right Hand

Part Number: T00198



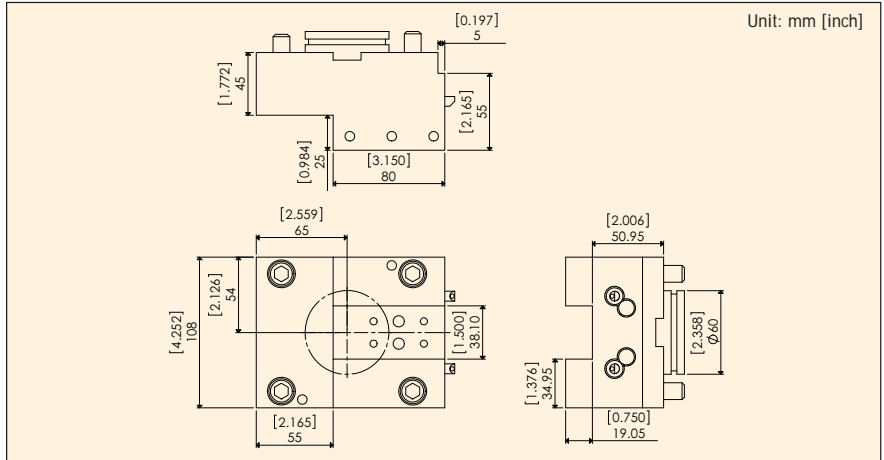
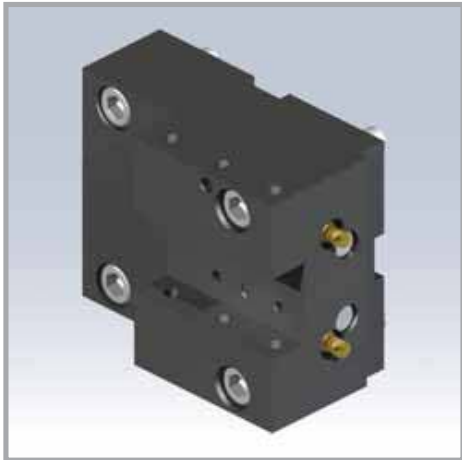
Description	Output Size	Shaft Diameter	Maximum External Pressure
Cut-off Holder, Right Hand	1.02" (25.9mm)	2.36" (60mm)	100 PSI

12 Station - Static Tool



Face and ID Cutting Holder

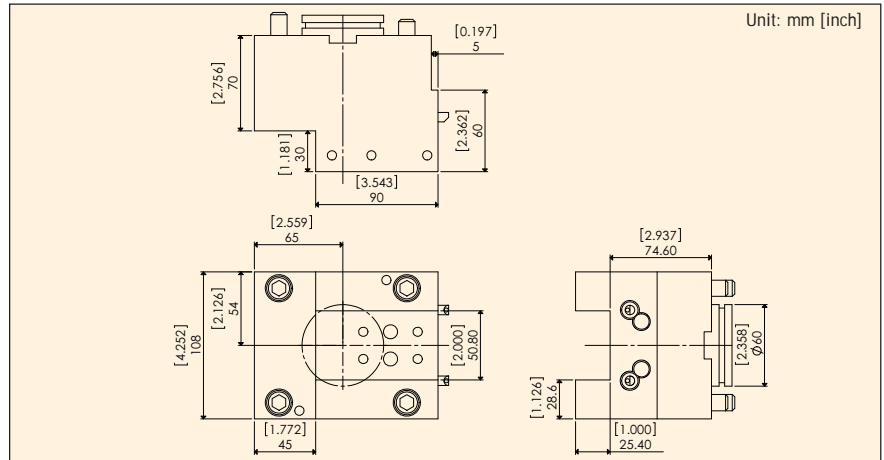
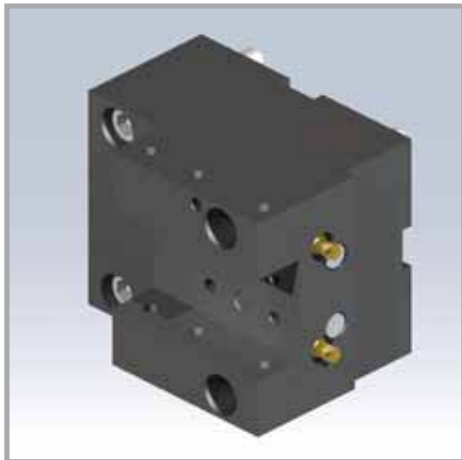
Part Number: T03014



Description	Output Size	Shaft Diameter	Maximum External Pressure
Face and ID Cutting Holder	1.5" (38.1mm)	2.36" (60mm)	100 PSI

Face and ID Cutting Holder

Part Number: T03013

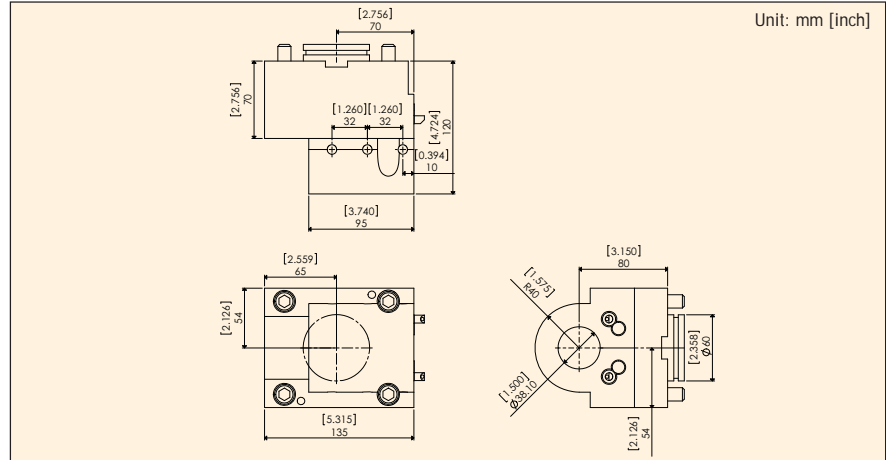
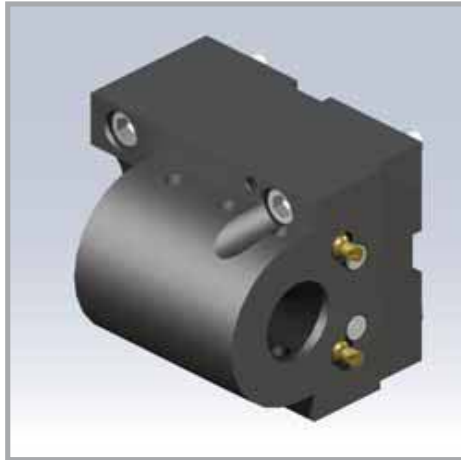


Description	Output Size	Shaft Diameter	Maximum External Pressure
Face and ID Cutting Holder	2" (50.8mm)	2.36" (60mm)	100 PSI



Boring Bar Holder

Part Number: T10101

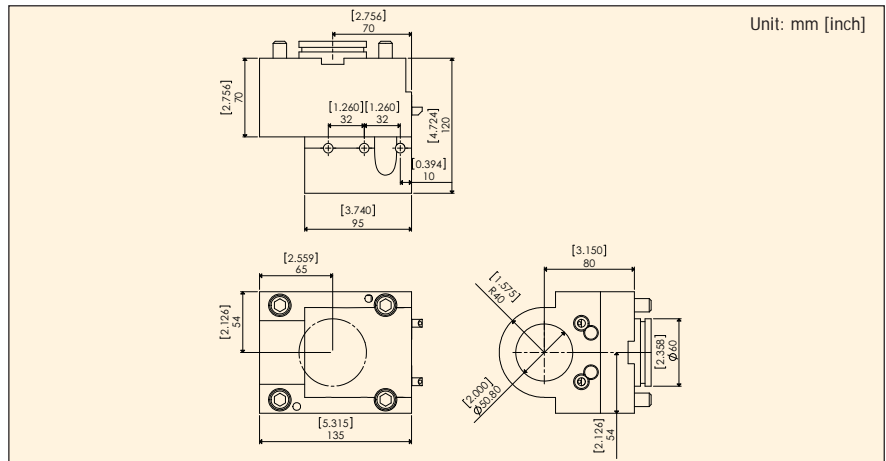
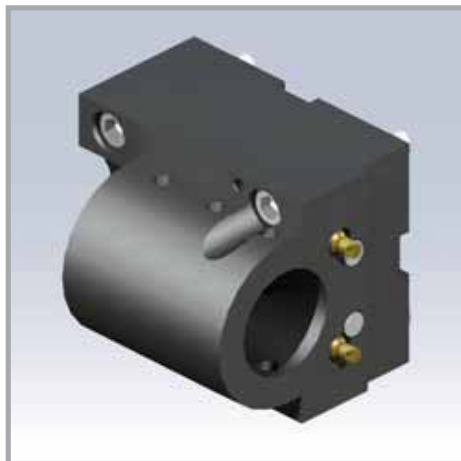


Description	Output Size	Shaft Diameter	Maximum External Pressure
Boring Bar Holder	1.5" (38.1mm)	2.36" (60mm)	100 PSI

Tool suitable for Mori Seiki 12-station NL Series only.

Boring Bar Holder

Part Number: T10102



Description	Output Size	Shaft Diameter	Maximum External Pressure
Boring Bar Holder	2" (50.8mm)	2.36" (60mm)	100 PSI

Tool suitable for Mori Seiki 12-station NL Series only.

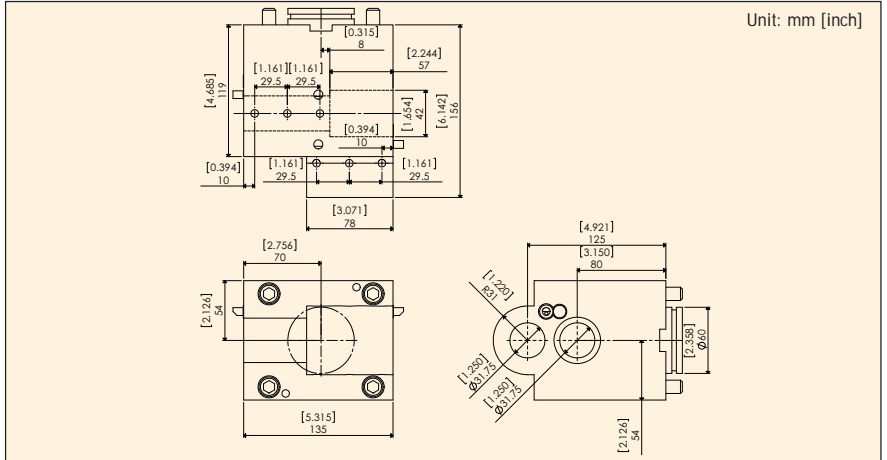
12 Station - Static Tool



Boring Bar Holder, Both Sides

Part Number: T10100

12 Station - Static Tool

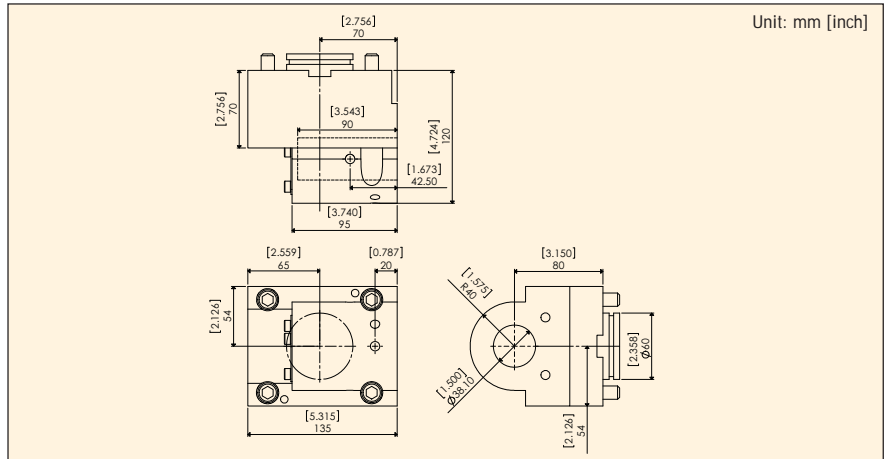
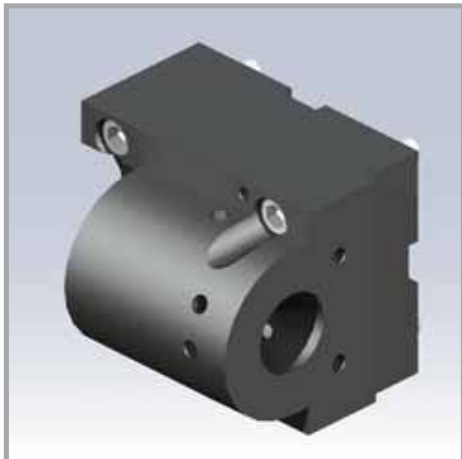


Description	Output Size	Shaft Diameter	Maximum External Pressure
Boring Bar Holder, Both Sides	1.25" (31.75mm)	2.36" (60mm)	100 PSI

Tool suitable for Mori Seiki 12-station NL Series only.

Combination Holder

Part Number: T13130



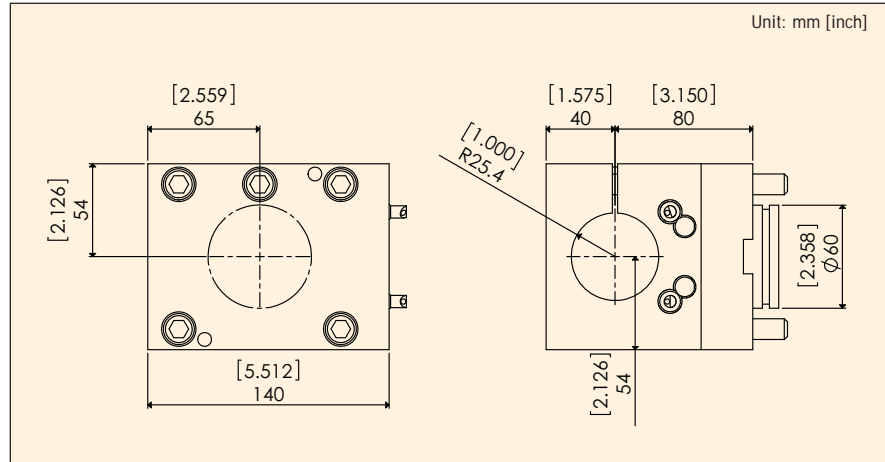
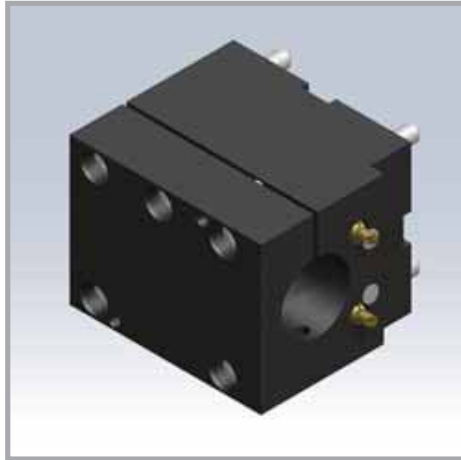
Description	Output Size	Shaft Diameter	Maximum External Pressure
Combination Holder	1.5" (38.1mm)	2.36" (60mm)	100 PSI

Tool suitable for Mori Seiki 12-station NL Series only.



Boring Bar Holder with Slot

Part Number: T10142

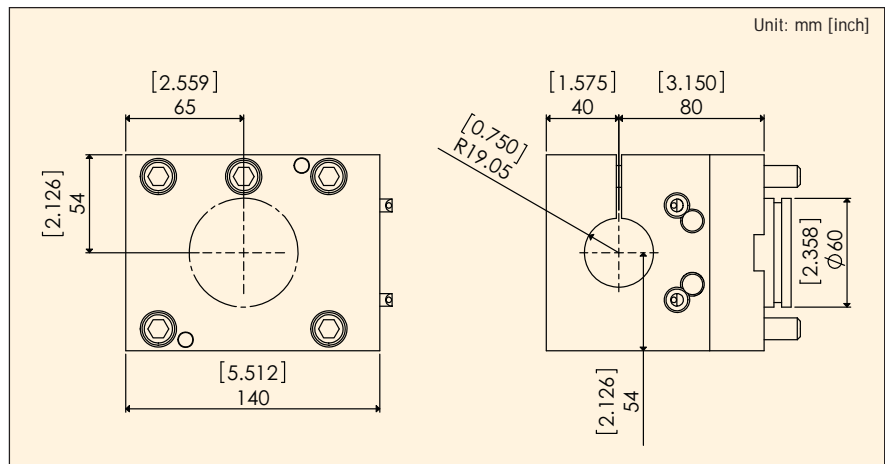


Description	Output Size	Shaft Diameter	Maximum External Pressure
Boring Bar Holder with Slot	2" (50.8mm)	2.36" (60mm)	100 PSI

Tool suitable for Mori Seiki 12-station NL Series only.

Boring Bar Holder with Slot

Part Number: T10143



Description	Output Size	Shaft Diameter	Maximum External Pressure
Boring Bar Holder with Slot	1.5" (38.1mm)	2.36" (60mm)	100 PSI

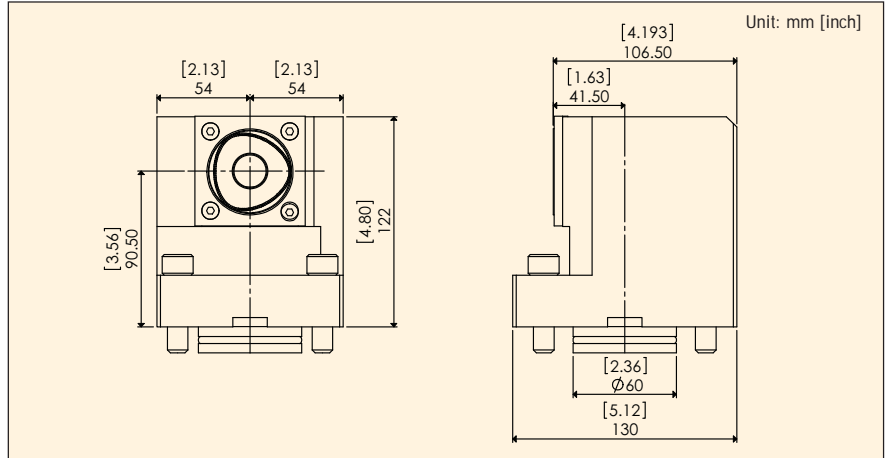
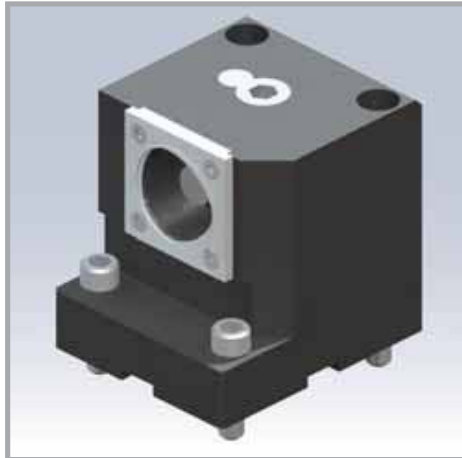
Tool suitable for Mori Seiki 12-station NL Series only.

12 Station - Static Tool



ID Capto Holder

Part Number: T12068



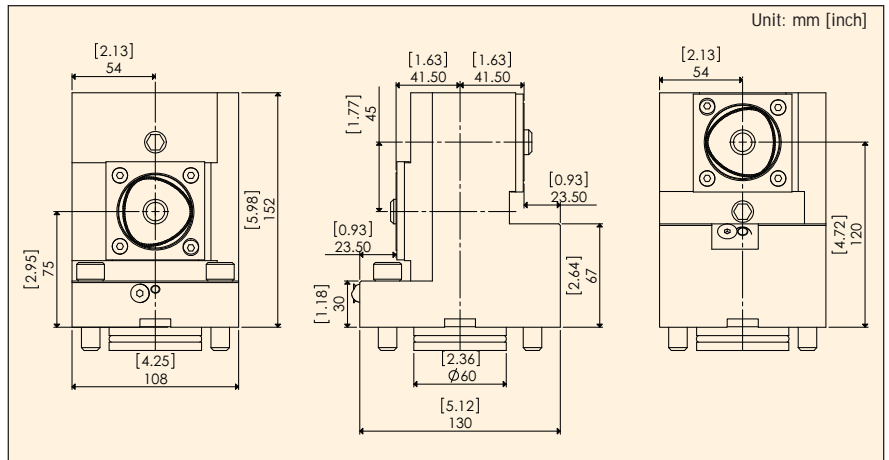
Description	Output Size	Shaft Diameter	Maximum External Pressure
ID Capto Holder	C5	2.36" (60mm)	100 PSI

"Cam-Lock, Quick-Change" type tool.

Internal sleeves can be rotated to accommodate for main/sub clockwise and counterclockwise spindle rotation for left or right hand turning tools. See page 46 for details.

ID Both Side Capto Holder

Part Number: T12069



Description	Output Size	Shaft Diameter	Maximum External Pressure
ID Both Side Capto Holder	C5	2.36" (60mm)	100 PSI

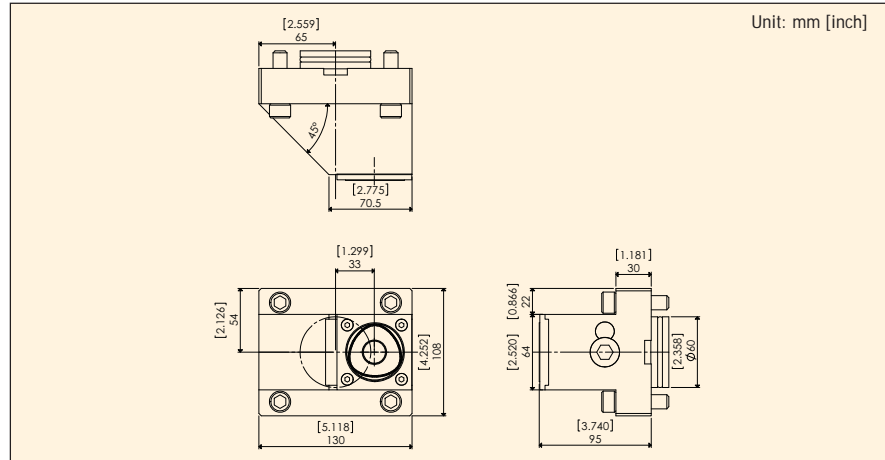
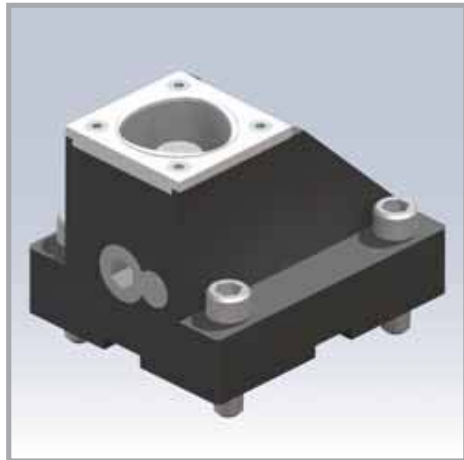
Screw-in type tool.

Internal sleeves can be rotated to accommodate for main/sub clockwise and counterclockwise spindle rotation for left or right hand turning tools. See page 46 for details.



OD Capto Holder

Part Number: T00208

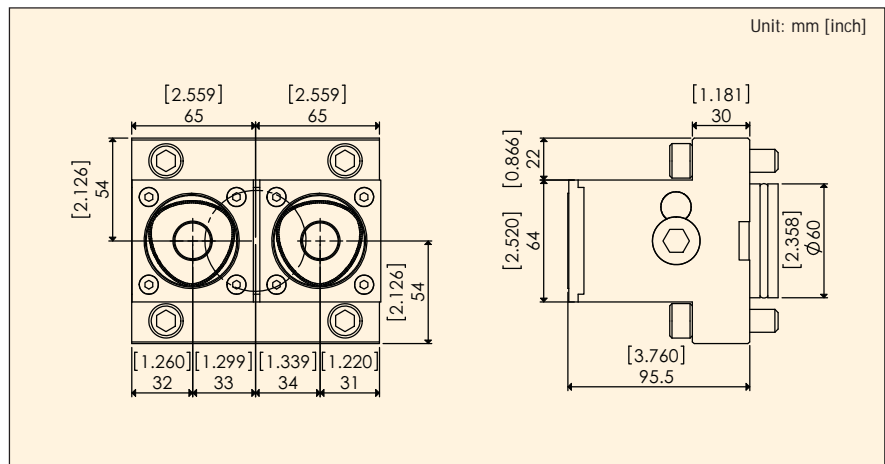
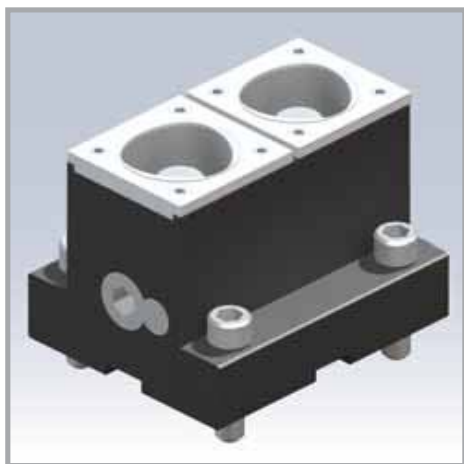


Description	Output Size	Shaft Diameter	Maximum External Pressure
OD Capto Holder	C5	2.36" (60mm)	100 PSI

"Cam-Lock, Quick-Change" type tool. This static tool can be ordered for left hand cutting; please refer the following part number: AC5-SSMS100-40000L. Internal sleeves can be rotated to accommodate for main/sub clockwise and counterclockwise spindle rotation for left or right hand turning tools. See page 46 for details.

OD Both Side Capto Holder

Part Number: T00209



Description	Output Size	Shaft Diameter	Maximum External Pressure
OD Both Side Capto Holder	C5	2.36" (60mm)	100 PSI

"Cam-Lock, Quick-Change" type tool. Internal sleeves can be rotated to accommodate for main/sub clockwise and counterclockwise spindle rotation for left or right hand turning tools. See page 46 for details.

12 Station - Static Tool



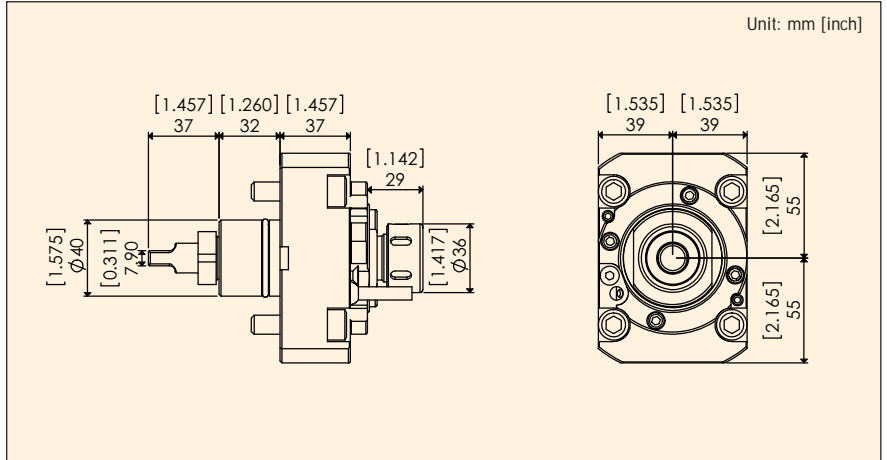
OD Drill/Milling Unit

Part Number: T32254



Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench	
									for Spindle	for Nut
External	Radial	6000	1:1	21ft.lbs (28.5N-m)	120	ER20 (1/16" to 1/2")	NA20	TM100-31090	SP-41	FK-5

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.

20 Station - Live Tool

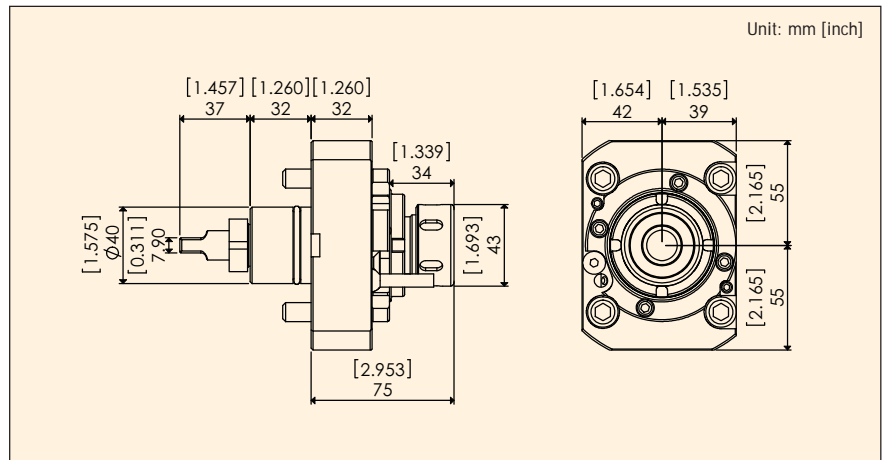
OD Drill/Milling Unit

Part Number: T32274



Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench	
									for Spindle	for Nut
External	Radial	6000	1:1	21ft.lbs (28.5N-m)	120	ER25 (1/16" to 5/8")	NA25	TM100-31090	SP-41	FK-6

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.



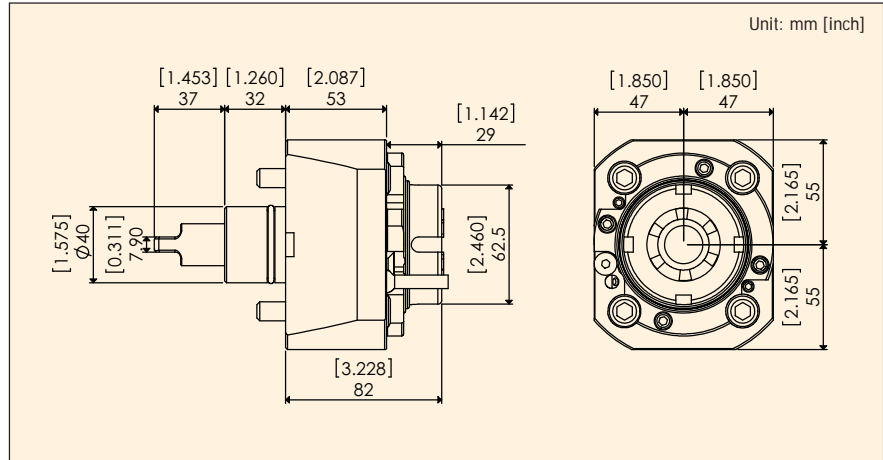
OD Drill/Milling Unit

Part Number: T32475



Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench	
									for Spindle	for Nut
External	Radial	6000	1:1	21ft.lbs (28.5N-m)	120	ER32 (1/8" to 25/32")	Hi-Q/ERAX 32	TM100-31090	FK-9	E32AX

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.

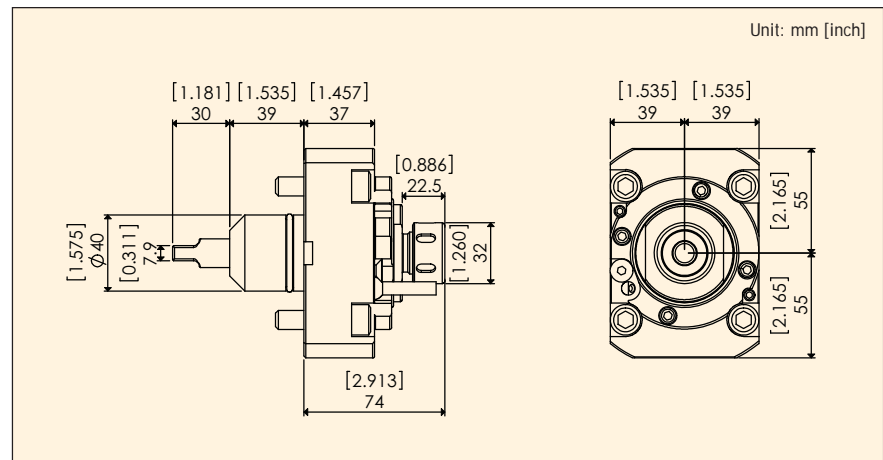
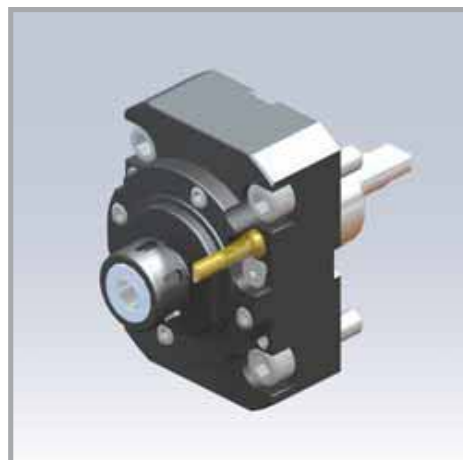
High Speed OD Drill/Milling Unit

Part Number: T32286



Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench	
									for Spindle	for Nut
External	Radial	10000	1:1	21ft.lbs (28.5N-m)	120	ER16 (1/64" to 13/32")	NA16	TM100-31090	SP-41	FK-4

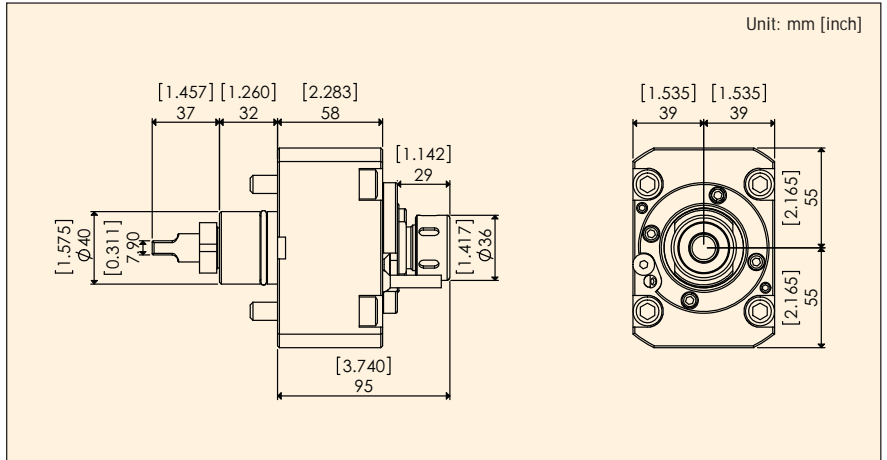
Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.

20 Station - Live Tool



OD Drill/Milling Unit

Part Number: T32287



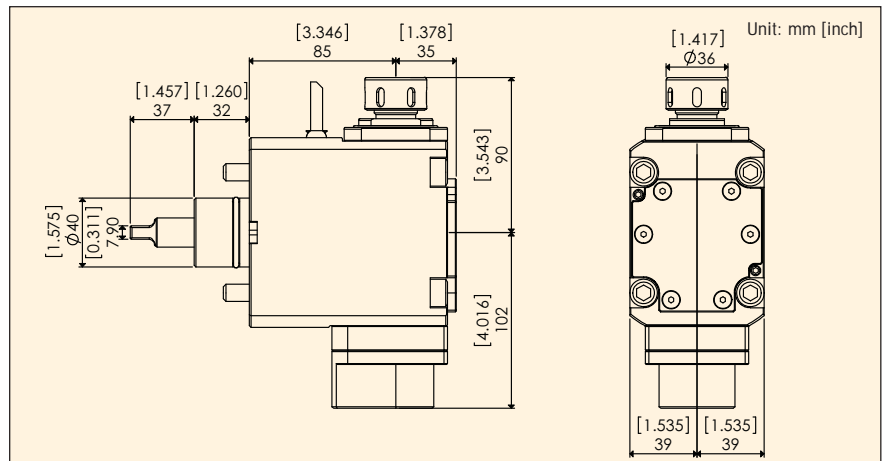
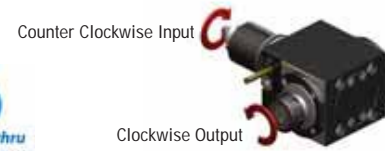
External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench	
									for Spindle	for Nut
Internal	Radial	6000	1:1	21ft.lbs (28.5N-m)	1000	ER20 (1/16" to 1/2")	NA20	TM100-31090	SP-32	FK-5

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.

20 Station - Live Tool

Face Drill/Milling Unit

Part Number: T32288



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench	
										for Spindle	for Nut
Internal	Axial	6000	1:1	21ft.lbs (28.5N-m)	1000	85	ER20 (1/16" to 1/2")	NA20	TM100-31090	SP-32	FK-5

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.



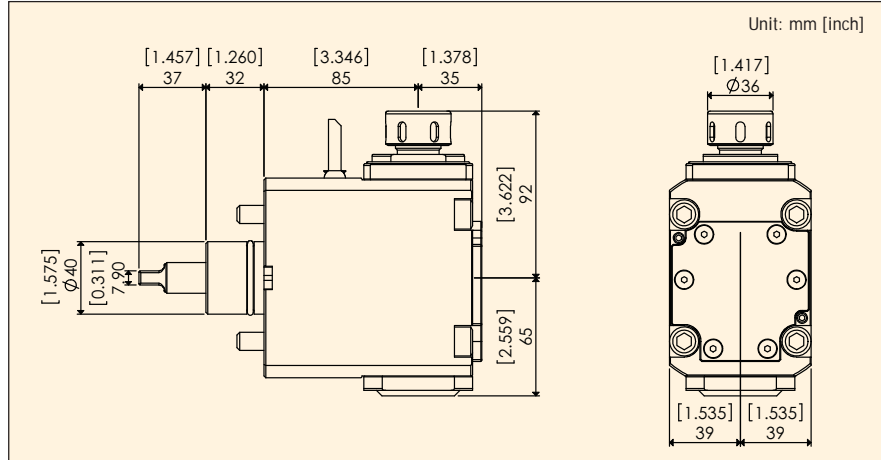
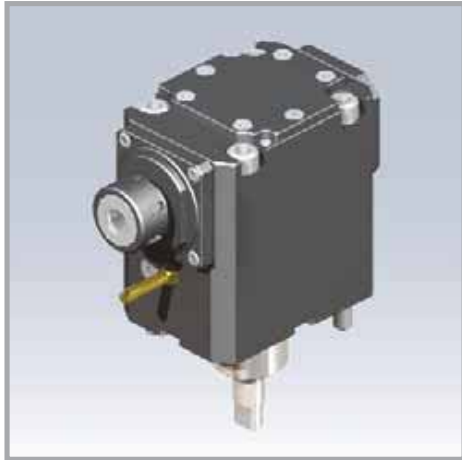
Face Drill/Milling Unit

Part Number: T32255



Counter Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench for Spindle for Nut	
External	Axial	6000	1:1	21ft.lbs (28.5N-m)	120	85	ER20 (1/16" to 1/2")	NA20	TM100-31090	SP-41	FK-5

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.

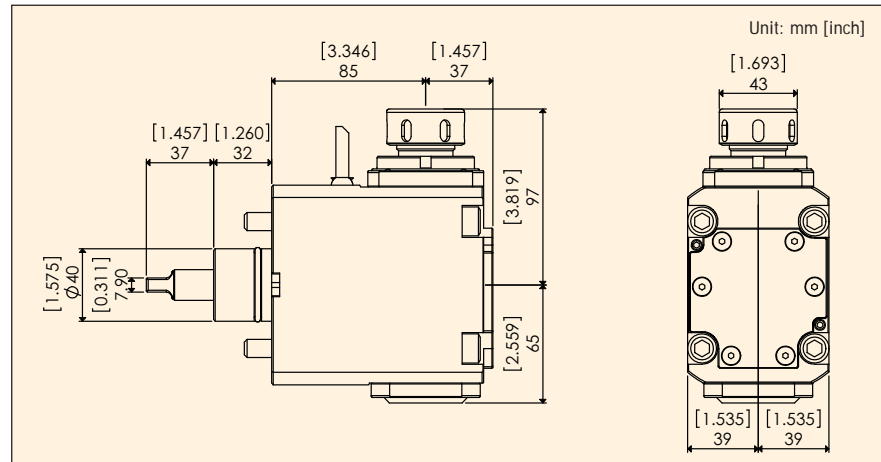
Face Drill/Milling Unit

Part Number: T32275



Counter Clockwise Input

Clockwise Output



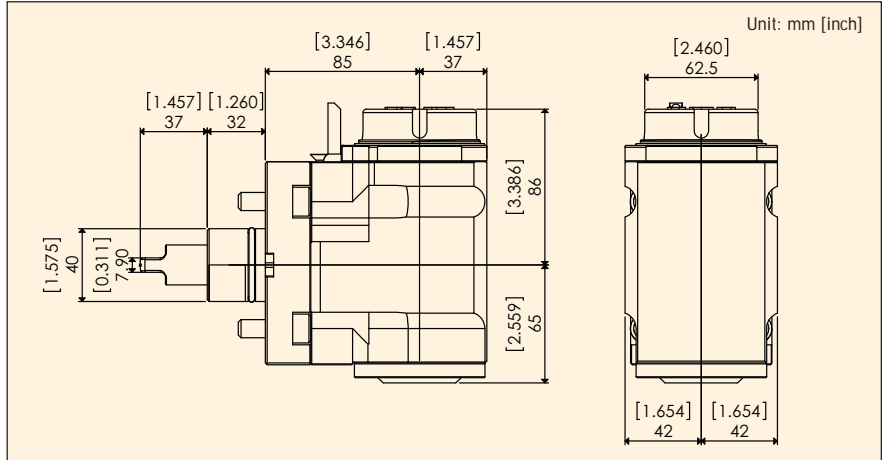
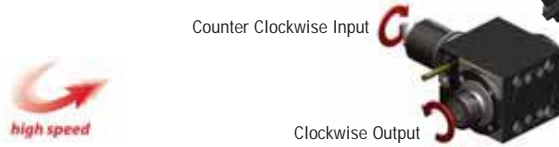
External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench for Spindle for Nut	
External	Axial	6000	1:1	21ft.lbs (28.5N-m)	120	85	ER25 (1/16" to 5/8")	NA25	TM100-31090	SP-41	FK-6

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.



Face Drill/Milling Unit

Part Number: T32476



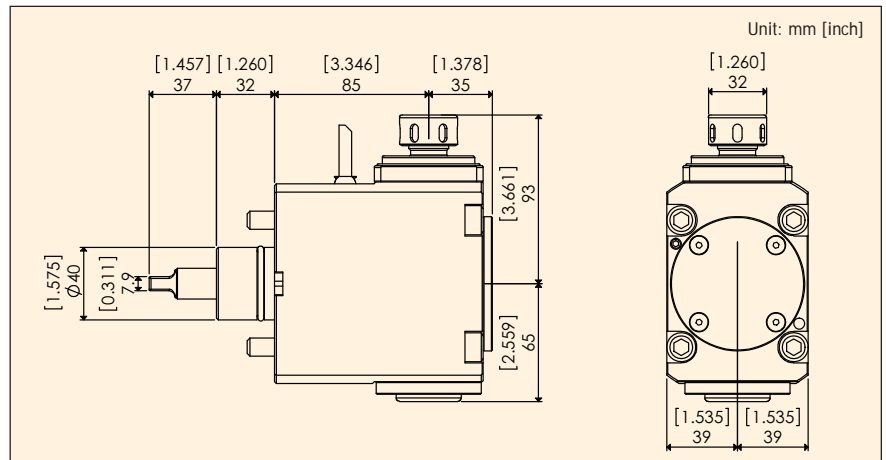
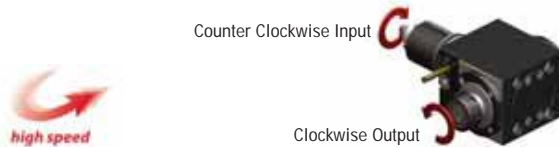
External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench for Spindle for Nut	
External	Axial	6000	1:1	21ft.lbs (28.5N-m)	120	85	ER32 (1/8" to 25/32")	HI-Q/ERAX 32	TM100-31090	FK-9	E32AX

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.

20 Station - Live Tool

High Speed Face Drill/Milling Unit

Part Number: T32293



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench for Spindle for Nut	
External	Axial	10000	1:1	21ft.lbs (28.5N-m)	120	85	ER16 (1/64" to 13/32")	NA16	TM100-31090	SP-41	FK-4

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.



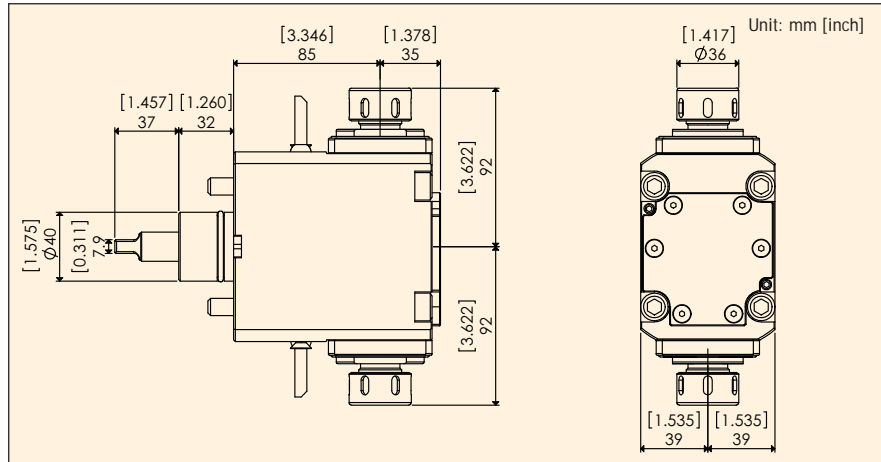
Double Spindle Face Drill/Milling Unit

Part Number: T32271



Counter Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench for Spindle for Nut	
External	Z-Z	6000	1:1	21ft.lbs (28.5N-m)	120	85	ER20 (1/16" to 1/2")	NA20	TM100-31090	SP-41	FK-5

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.

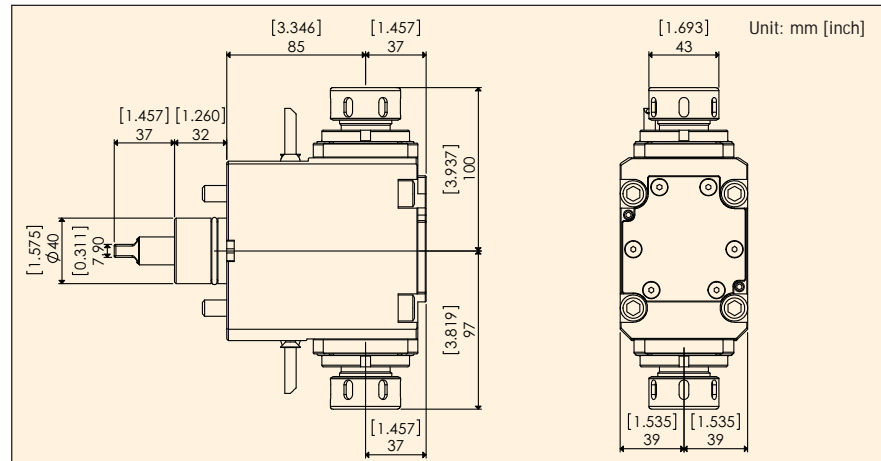
Double Spindle Face Drill/Milling Unit

Part Number: T32276



Counter Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench for Spindle for Nut	
External	Z-Z	6000	1:1	21ft.lbs (28.5N-m)	120	85	ER25 (1/16" to 5/8")	NA25	TM100-31090	FK-8	FK-6

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.



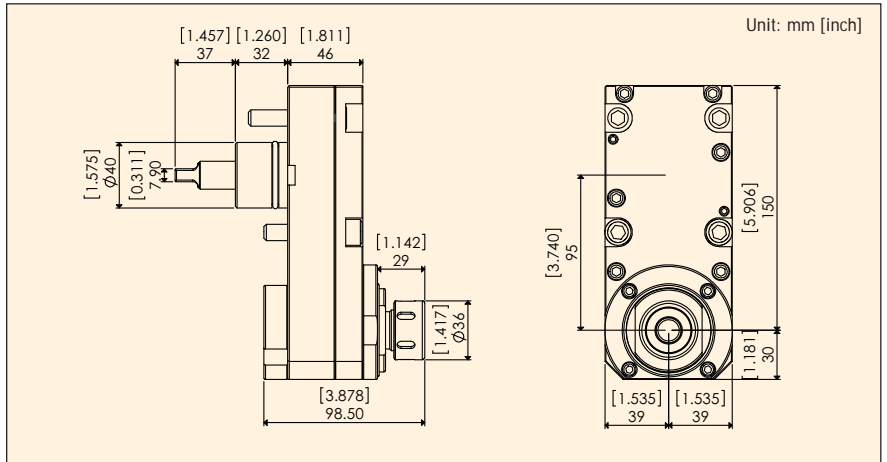
Offset OD Drill/Milling Unit

Part Number: T32279



Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench	
									for Spindle	for Nut
External	Radial	6000	1:1	21ft.lbs (28.5N-m)	120	ER20 (1/16" to 1/2")	NA20	TM100-31090	SP-41	FK-5

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.

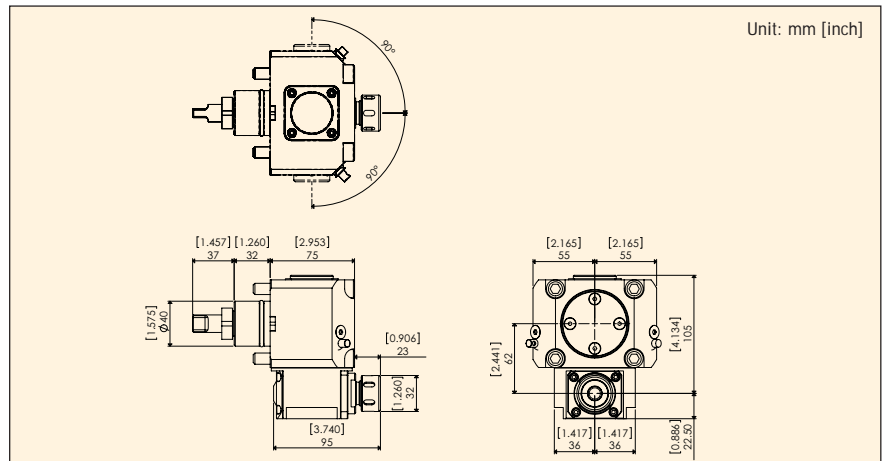
20 Station - Live Tool

Adjustable Angle Drill/Milling Unit

Part Number: T32289

Clockwise Input

Clockwise Output



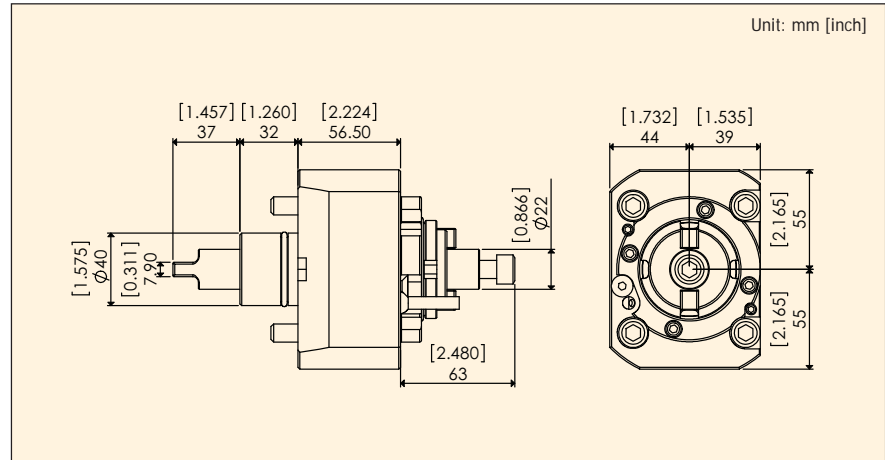
External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Collet Size	Replacement Nut	Coolant Nozzle	Spanner Wrench	
										for Spindle	for Nut
External	X-Z	4000	1:1	21ft.lbs (28.5N-m)	120	37	ER16 (1/64" to 13/32")	NA16	A1207-1405	SP-27	FK-4

Please refer to pages 50 - 53 for ER Series Collets and ER Tap Collets details.



Shell Mill Unit with 22mm Mill Arbor

Part Number: T32280

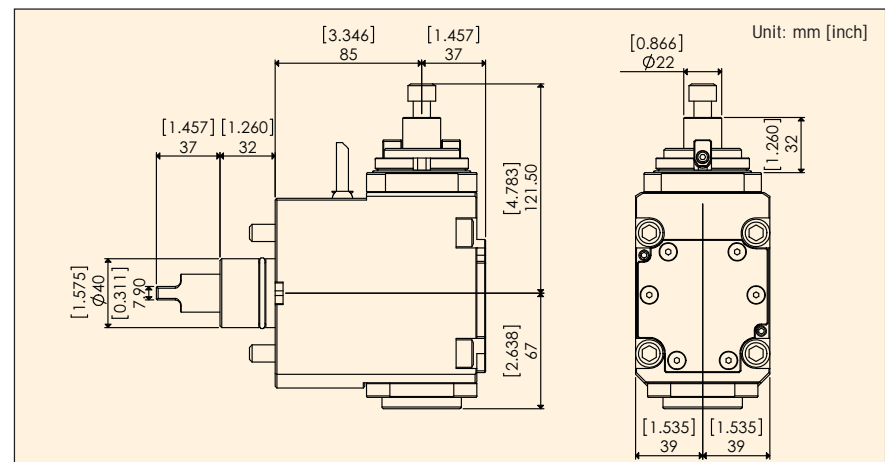
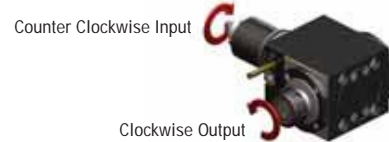


External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Arbor Size	Coolant Nozzle	Spanner Wrench for Spindle
External	Radial	2000	1:1	21ft.lbs (28.5N-m)	120	22mm	TM100-31090	FK-8

Replacement Arbor Screws for Shell Mill Holders available. See details on page 54.

Face Milling Unit with 22mm Mill Arbor

Part Number: T32292



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Arbor Size	Coolant Nozzle	Spanner Wrench for Spindle
External	Axial	2000	1:1	21ft.lbs (28.5N-m)	120	85	22mm	TM100-31090	FK-8

Replacement Arbor Screws for Shell Mill Holders available. See details on page 54.



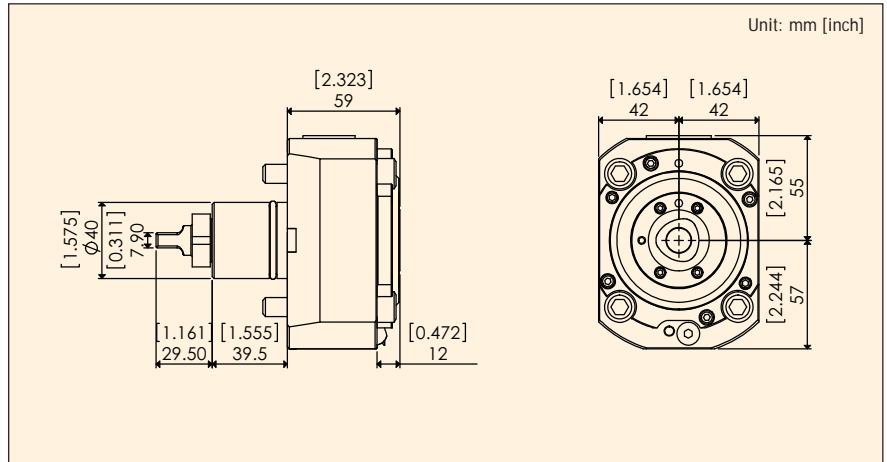
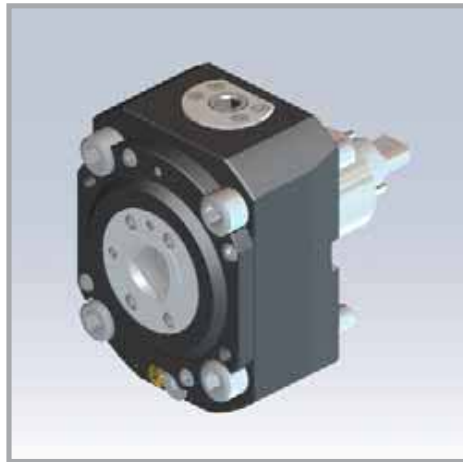
Capto C3 OD Drill/Milling Unit

Part Number: T32290



Clockwise Input

Clockwise Output



External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Capto Size	Coolant Nozzle	Torque Wrench
External	Radial	6000	1:1	21ft.lbs (28.5N-m)	120	C3	T -12	TQW-150 + TQW-CAPTO3(12)

"Cam-Lock, Quick-Change" type tool. Please refer to pages 47 - 49 for Capto Holders and to page 55 for Torque Wrench details.

20 Station - Live Tool

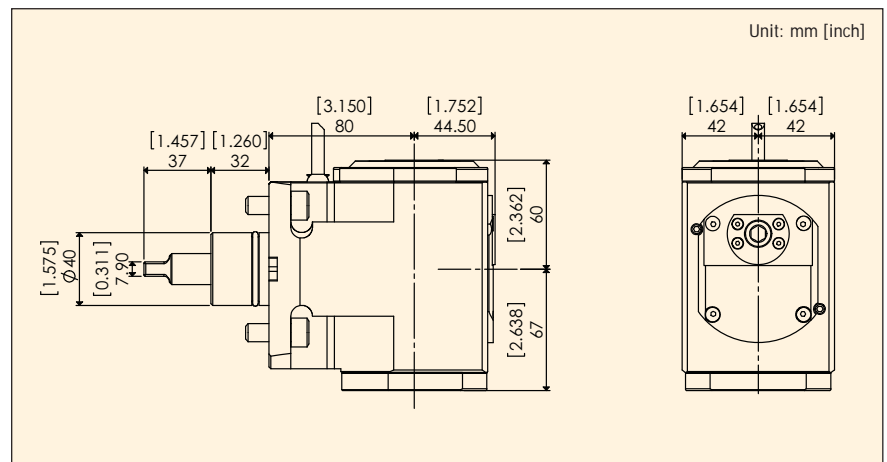
Capto C3 Face Drill/Milling Unit

Part Number: T32291



Clockwise Input

Clockwise Output



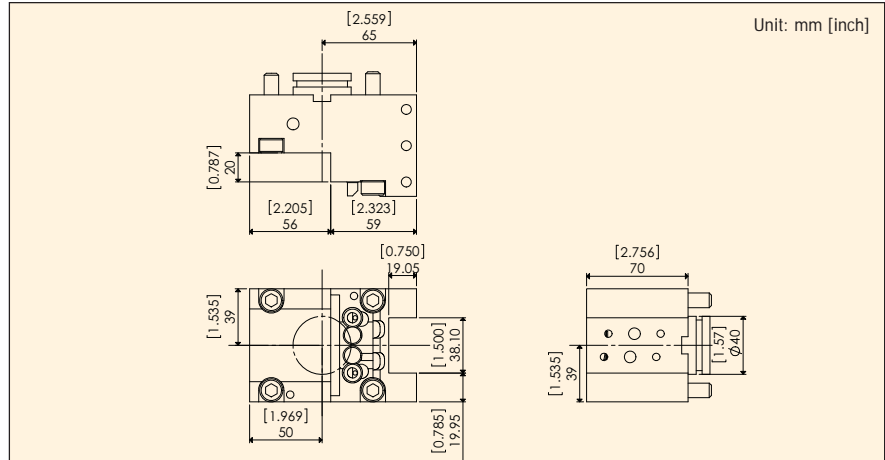
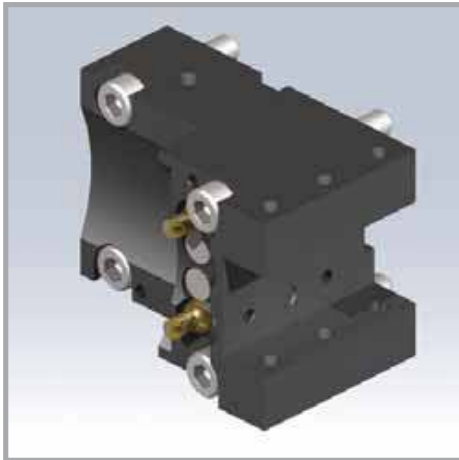
External or Internal Coolant	Radial/Axial	Max. RPM	Gear Ratio	Max. Torque Output	Max. Pressure (PSI)	Center Height (mm)	Capto Size	Coolant Nozzle	Torque Wrench
External	Axial	6000	1:1	21ft.lbs (28.5N-m)	120	85	C3	HI103-37110	TQW-150 + TQW-CAPTO3(12)

"Cam-Lock, Quick-Change" type tool. Please refer to pages 47 - 49 for Capto Holders and to page 55 for Torque Wrench details.



OD Cutting Holder, Short

Part Number: T00234

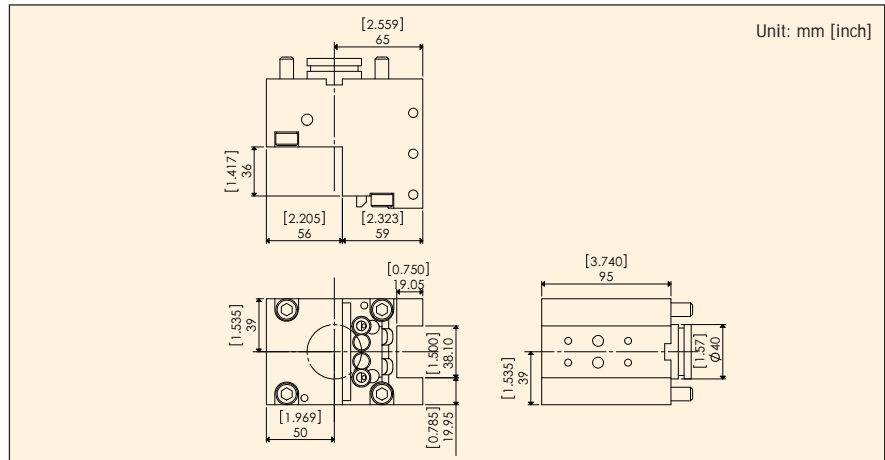
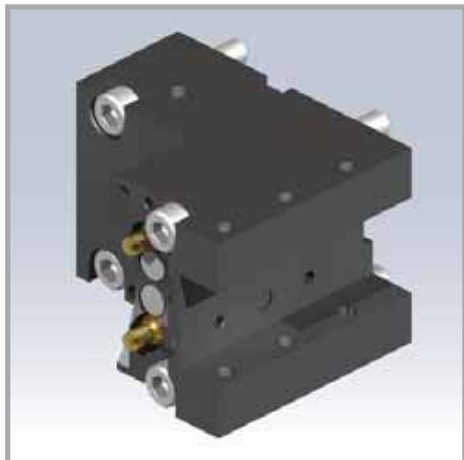


Description	Output Size	Shaft Diameter	Maximum External Pressure
OD cutting holder, short	1.5" (38.1mm)	1.57" (40mm)	100PSI

Height from mounting face to the top is 2.75" (70mm)

OD Cutting Holder, Long

Part Number: T00235



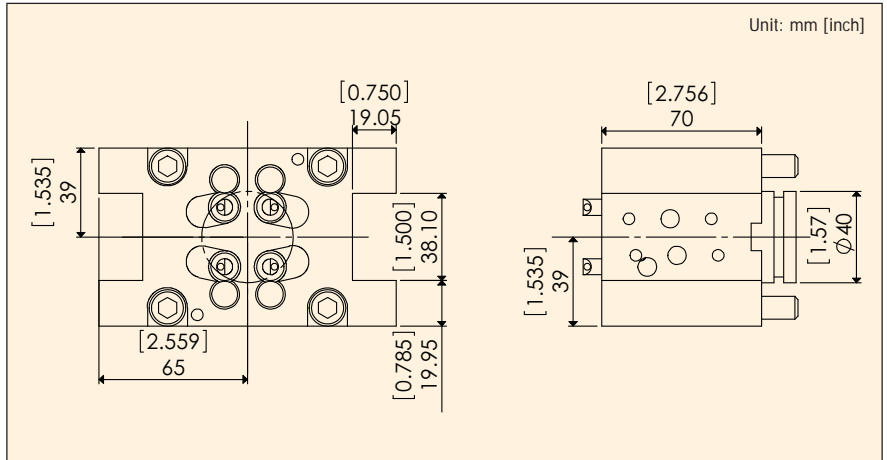
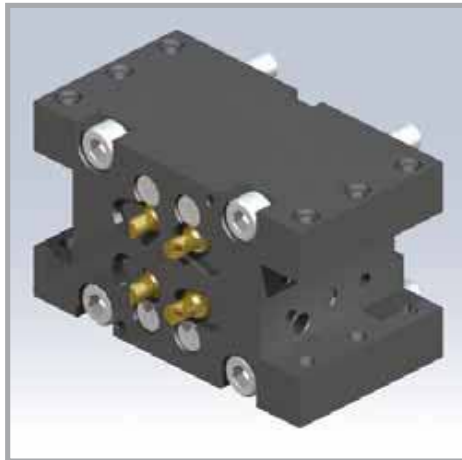
Description	Output Size	Shaft Diameter	Maximum External Pressure
OD cutting holder, long	1.5" (38.1mm)	1.57" (40mm)	100PSI

Height from mounting face to the top is 3.74" (95mm)



OD Cutting Holder, Short, Both Sides

Part Number: T00250



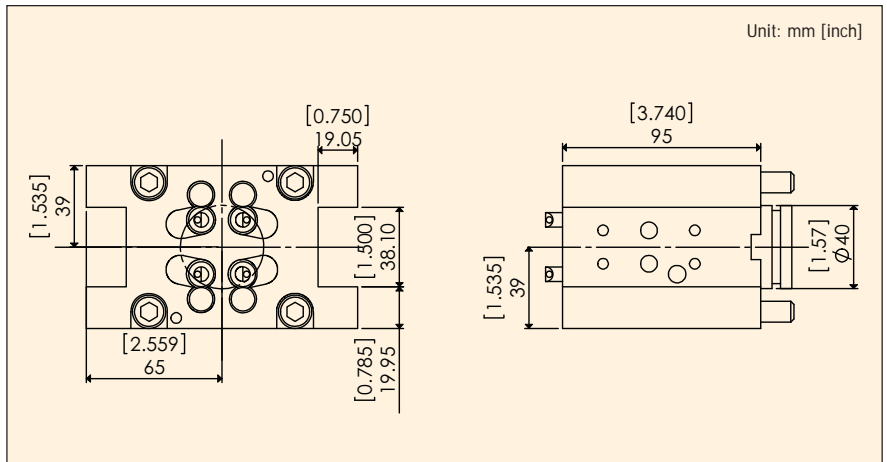
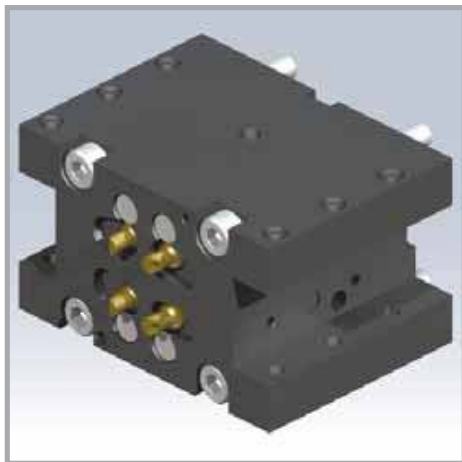
Description	Output Size	Shaft Diameter	Maximum External Pressure
OD cutting holder, short, both sides	1.5" (38.1mm)	1.57" (40mm)	100PSI

Tool not suitable for Mori Seiki DuraTurn Series.

20 Station - Static Tool

OD Cutting Holder, Long, Both Sides

Part Number: T00249



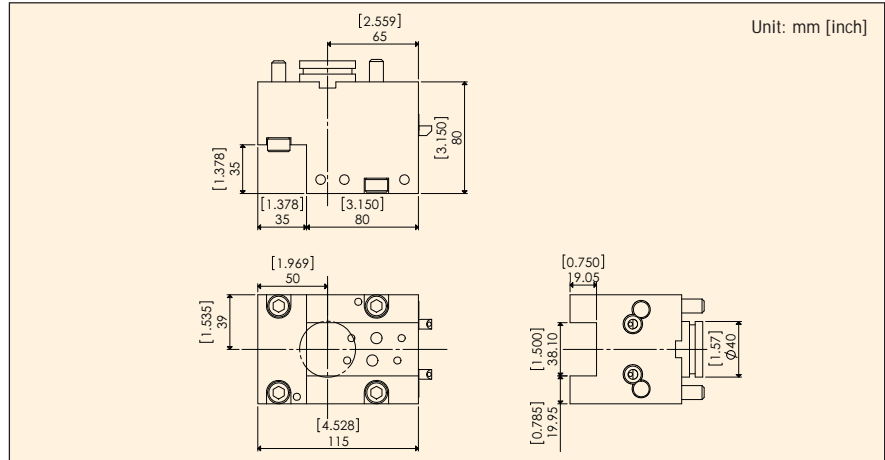
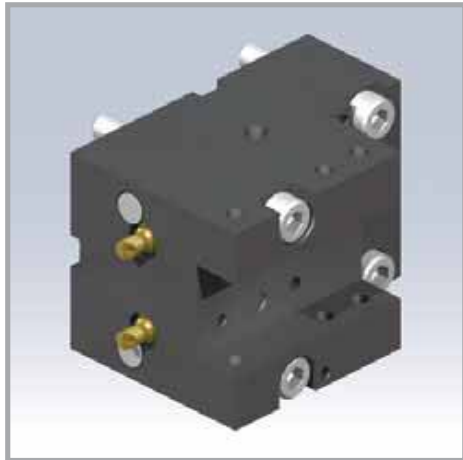
Description	Output Size	Shaft Diameter	Maximum External Pressure
OD cutting holder, long, both sides	1.5" (38.1mm)	1.57" (40mm)	100PSI

Tool not suitable for Mori Seiki DuraTurn Series.



Face and ID Cutting Holder

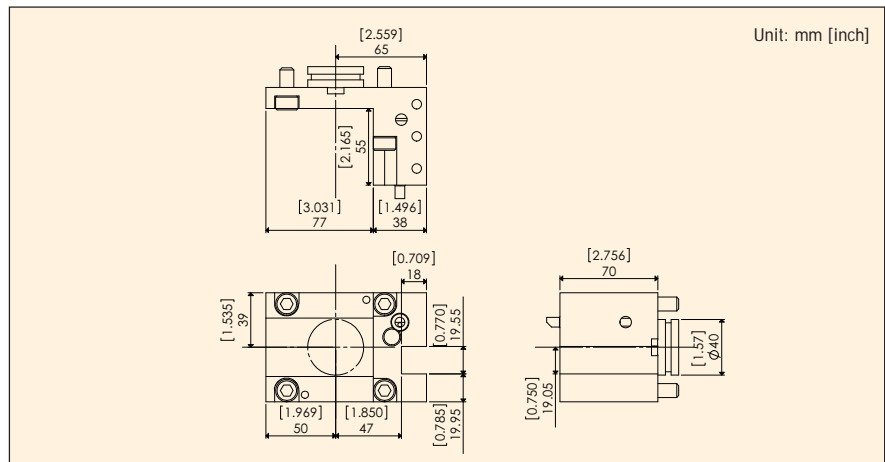
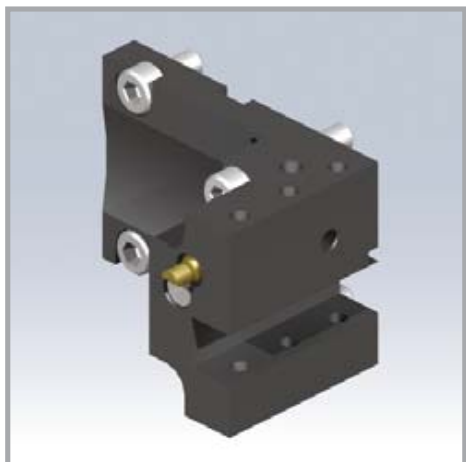
Part Number: T03018



Description	Output Size	Shaft Diameter	Maximum External Pressure
Face and ID cutting holder	1.5" (38.1mm)	1.57" (40mm)	100PSI

Cut-Off Holder, Right Hand

Part Number: T00252

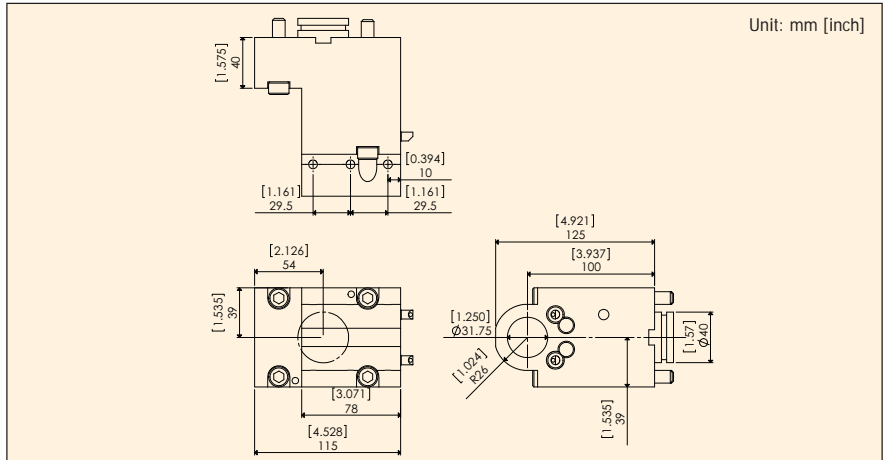
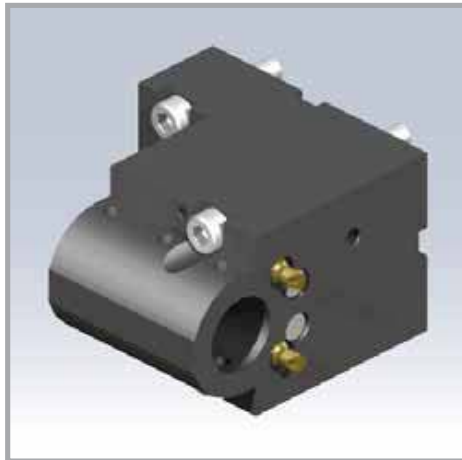


Description	Output Size	Shaft Diameter	Maximum External Pressure
Cut-off holder, right hand	0.77" (19.55mm)	1.57" (40mm)	100PSI



Boring Bar Holder

Part Number: T10119

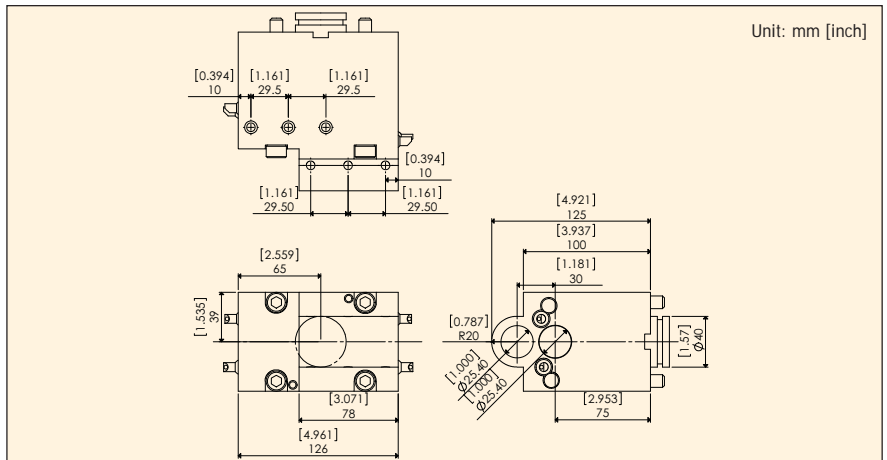


Description	Output Size	Shaft Diameter	Maximum External Pressure
Boring bar holder	1.25" (31.75mm)	1.57" (40mm)	100PSI

20 Station - Static Tool

Boring Bar Holder, Both Sides

Part Number: T10139



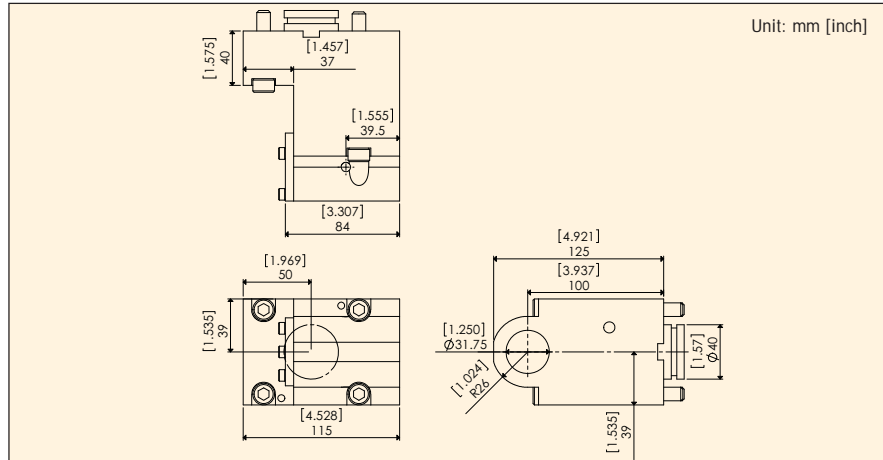
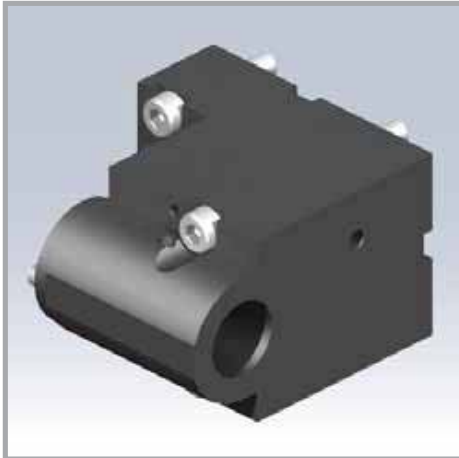
Description	Output Size	Shaft Diameter	Maximum External Pressure
Boring bar holder, both sides	1" (25.4mm)	1.57" (40mm)	100PSI

Tool not suitable for Mori Seiki DuraTurn Series.



Combination Holder

Part Number: T13135

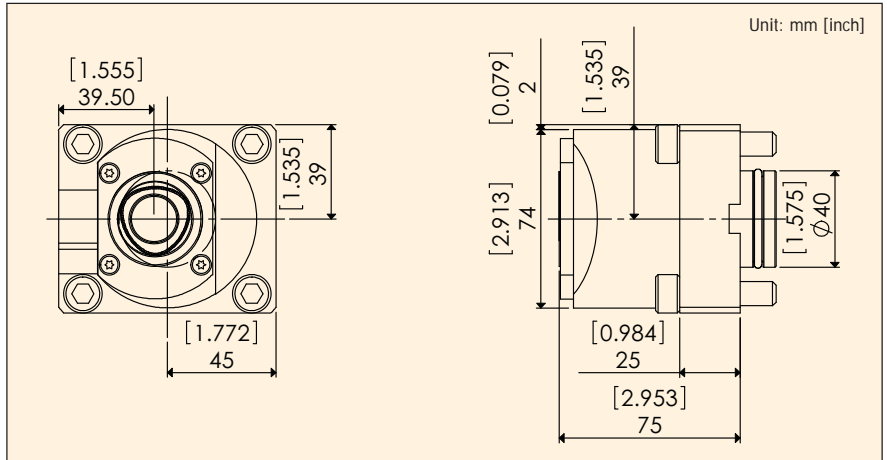
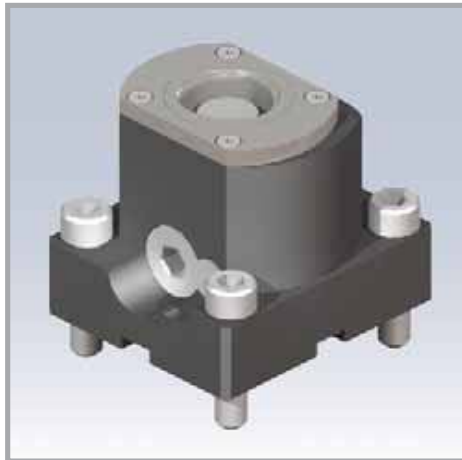


Description	Output Size	Shaft Diameter	Maximum External Pressure
Combination holder	1.25" (31.75mm)	1.57" (40mm)	100PSI



OD Capto Holder

Part Number: T12074



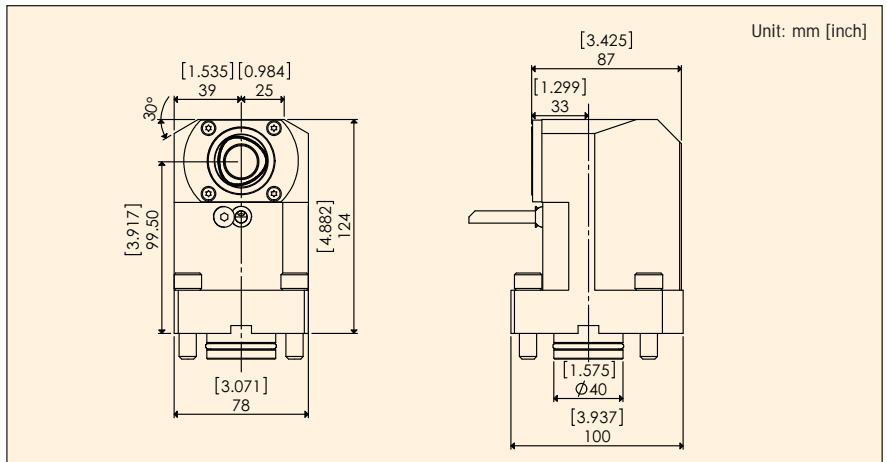
Description	Output Size	Shaft Diameter	Maximum External Pressure
OD Capto Holder	C4	1.57" (40mm)	100PSI

Internal sleeves can be rotated to accommodate for main/sub clockwise and counterclockwise spindle rotation for left or right hand turning tools. See page 46 for details.
 "Cam-Lock, Quick-Change" type tool.

20 Station - Static Tool

ID Capto Holder

Part Number: T12075



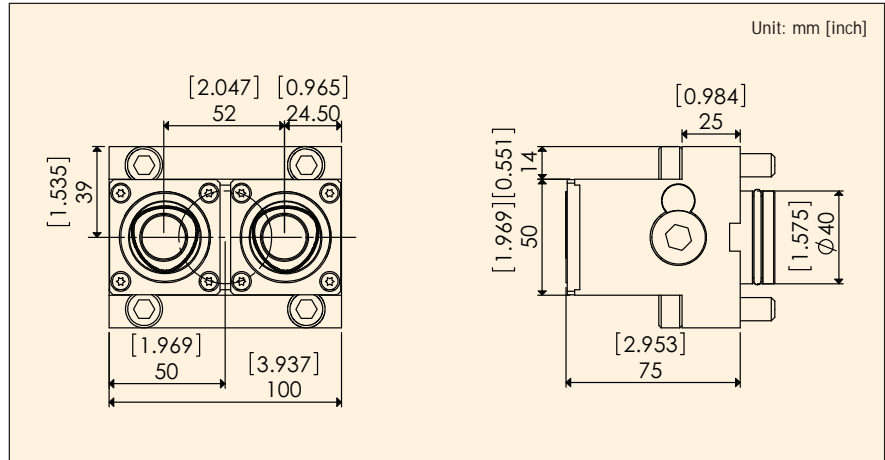
Description	Output Size	Shaft Diameter	Maximum External Pressure
ID Capto Holder	C4	1.57" (40mm)	100PSI

Internal sleeves can be rotated to accommodate for main/sub clockwise and counterclockwise spindle rotation for left or right hand turning tools. See page 46 for details.
 "Cam-Lock, Quick-Change" type tool.



OD Both Sides Capto Holder

Part Number: AC4-AMS100-WA

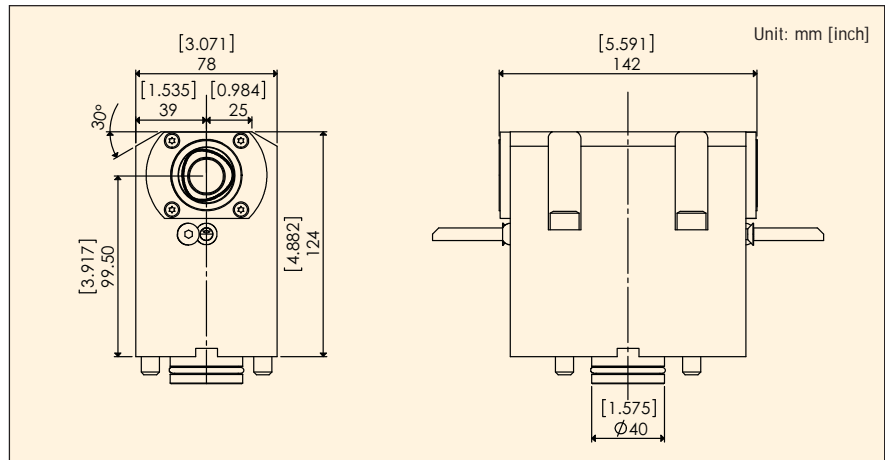
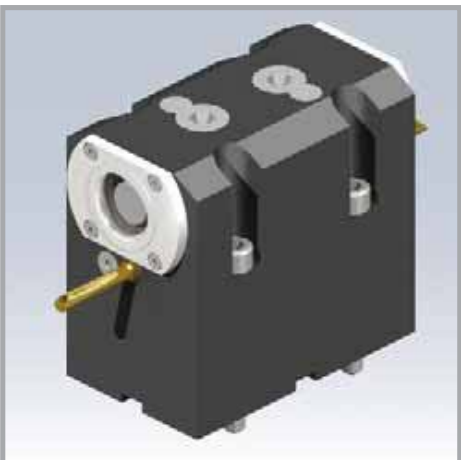


Description	Output Size	Shaft Diameter	Maximum External Pressure
OD Both Side Capto Holder	C4	1.57" (40mm)	100PSI

Internal sleeves can be rotated to accommodate for main/sub clockwise and counterclockwise spindle rotation for left or right hand turning tools. See page 46 for details. "Cam-Lock, Quick-Change" type tool.

ID Both Sides Capto Holder

Part Number: AC4-AMS100-WB



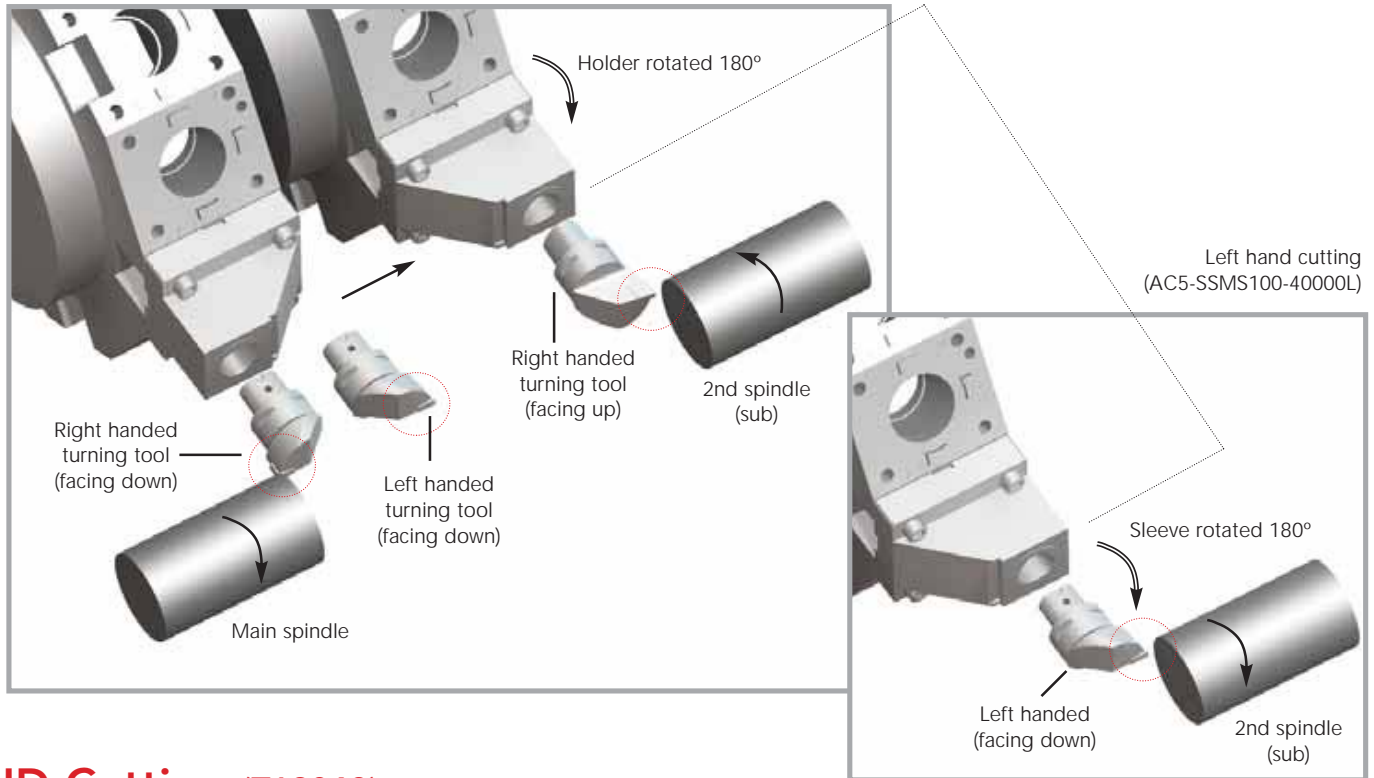
Description	Output Size	Shaft Diameter	Maximum External Pressure
ID Both Side Capto Holder	C4	1.57" (40mm)	100PSI

Internal sleeves can be rotated to accommodate for main/sub clockwise and counterclockwise spindle rotation for left or right hand turning tools. See page 46 for details. "Cam-Lock, Quick-Change" type tool.

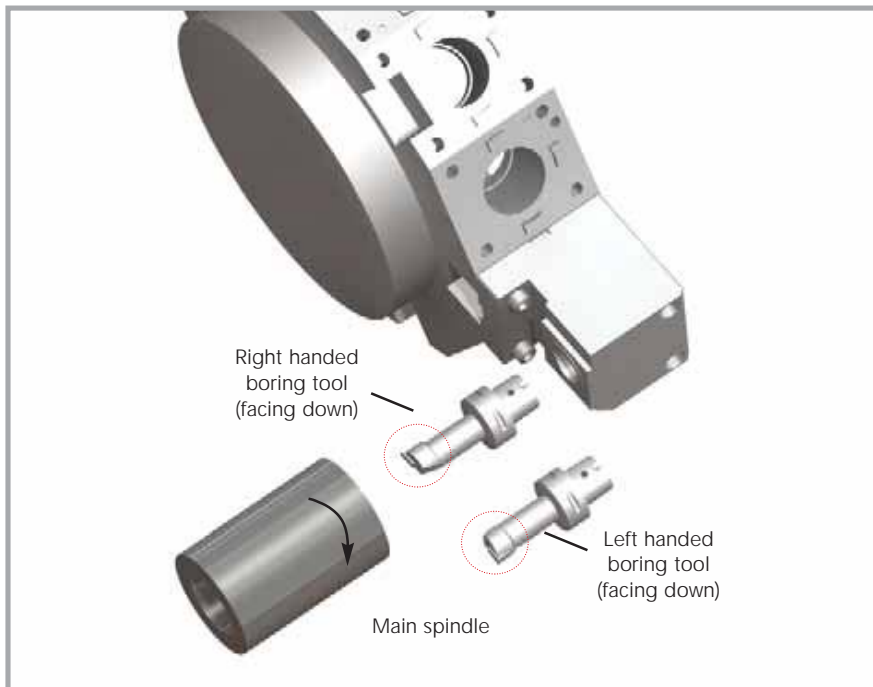
How to Choose Cutting Heads for Capto Static Tools

Internal sleeves can be rotated to accommodate for main/sub clockwise and counterclockwise spindle rotation for left or right hand turning tools.

OD Cutting (T00208)



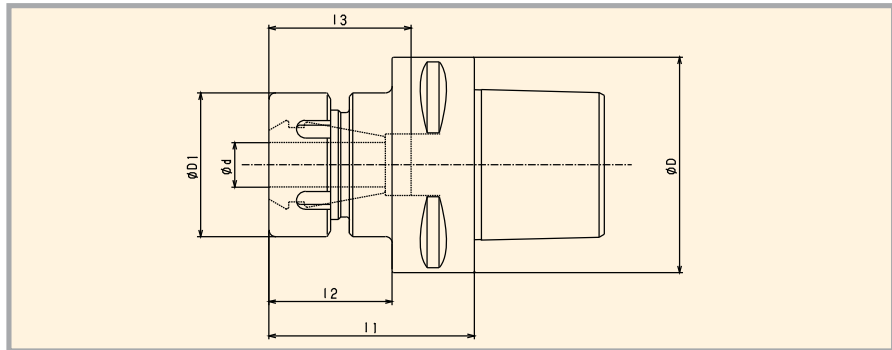
ID Cutting (T12068)



Capto ER Collet Chucks and Tap Holders



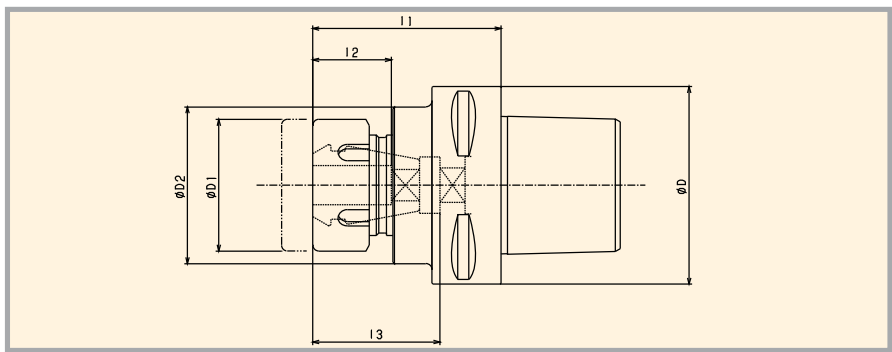
Capto ER Collet Chuck Holders



Part Number	Collet Size	d	D		D1		I1		I2		I3		Nut Wrench
			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
AC3 - ECH10F - 35	ER16	1-10	32	1.260	30	1.818	35	1.378	21	0.827	33.0	1.299	FK-4
AC3 - ECH13F - 43	ER20	1-13	32	1.260	35	1.378	43	1.693	-	-	37.0	1.457	FK-5
AC4 - ECH13F - 45	ER20	1-13	40	1.575	35	1.378	45	1.772	25	0.984	37.0	1.457	FK-5
AC4 - ECH16F - 50	ER25	1-16	40	1.575	42	1.654	40	1.969	-	-	41.5	1.634	FK-6
AC4 - ECH20F - 55	ER32	3-20	40	1.575	50	1.969	55	2.165	-	-	47.5	1.870	FK-7
AC5 - ECH7F - 60	ER11	0.5-7	50	1.969	23	1.906	60	2.362	38	1.496	22.5	0.866	FK-3
AC5 - ECH7F - 90	ER11	0.5-7	50	1.969	23	1.906	90	3.543	68	2.677	22.5	0.866	FK-3
AC5 - ECH10F - 60	ER16	1-10	50	1.969	30	1.818	60	2.362	38	1.496	33.0	1.299	FK-4
AC5 - ECH10F - 90	ER16	1-10	50	1.969	30	1.818	90	3.543	68	2.677	33.0	1.299	FK-4
AC5 - ECH13F - 60	ER20	1-13	50	1.969	35	1.378	60	2.362	38	1.496	37.0	1.457	FK-5
AC5 - ECH13F - 90	ER20	1-13	50	1.969	35	1.378	90	3.543	68	2.677	37.0	1.457	FK-5
AC5 - ECH16F - 60	ER25	1-16	50	1.969	42	1.654	60	2.362	38	1.496	41.5	1.634	FK-6
AC5 - ECH16F - 90	ER25	1-16	50	1.969	42	1.654	90	3.543	68	2.677	41.5	1.634	FK-6
AC5 - ECH20F - 60	ER32	3-20	50	1.969	50	1.969	60	2.362	-	-	47.5	1.870	FK-7
AC5 - ECH20F - 90	ER32	3-20	50	1.969	50	1.969	90	3.543	-	-	47.5	1.870	FK-7
AC5 - ECH26F - 70	ER40	3-26	50	1.969	61.5	2.421	70	2.756	-	-	54.5	2.146	FK-9

Please refer to pages 50 - 53 for ER Series Collets details.

Capto ER Tap Holders



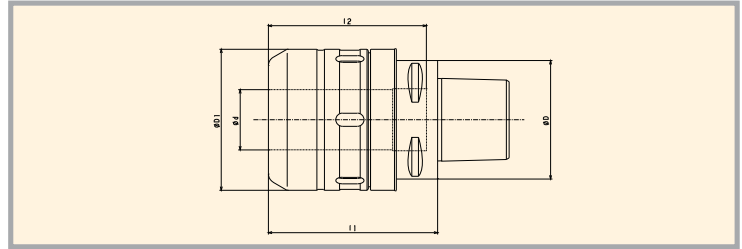
Part Number	Collet Size	Tap Size		Axial Ext.		D		D1		D2		I1		I2		I3		Nut	Nut Wrench	Setting Wrench
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch			
AC3-ETH10M-44	ER16	M4-M12	#6 to 7/16	8	0.315	32	1.260	22	0.866	32	1.260	40	1.732	27	1.063	32	1.260	NA16M	E16M	SP15
AC4-ETH13F-50	ER20	M4-M14	#6 to 1/2	10	0.394	40	1.575	35	1.378	40	1.575	50	1.969	31	1.220	36	1.417	NA20F	FK-5	SP21
AC5-ETH13F-60	ER20	M4-M14	#6 to 1/2	10	0.394	50	1.969	35	1.378	40	1.575	60	2.362	31	1.220	36	1.417	NA20F	FK-5	SP21
AC5-ETH16F-60	ER25	M6-M18	1/4 to 5/8	10	0.394	50	1.969	42	1.654	50	1.969	60	2.362	35	1.378	40.5	1.594	NA25F	FK-6	SP27

Please refer to pages 50 - 53 for Capto ER Tap Holders details.

Capto Milling Chuck, Morse Taper and End Mill Holders



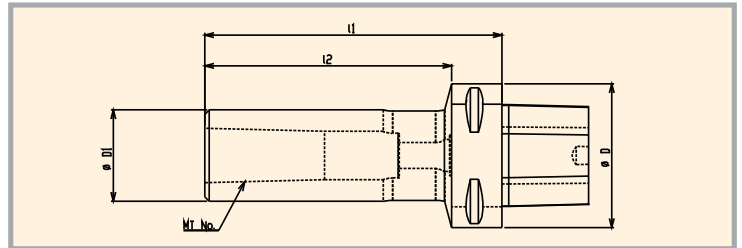
Capto Milling Chuck Holders



Part Number	Collet Size	d		D		D1		I1		I2		Nut Wrench
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
AC4-TRX16-70	AS16	16	0.630	40	1.575	45	1.772	70	2.756	65	2.559	FK-6
AC4-TRX20-75	AS20	20	0.787	40	1.575	52	2.047	75	2.953	69	2.717	FK-8
AC4-TRX5/8-70	AS5/8	15.875	0.625	40	1.575	45	1.772	70	2.756	65	2.559	FK-6
AC4-TRX3/4-75	ASS3/4	19.05	0.750	40	1.575	52	2.047	75	2.953	69	2.717	FK-8

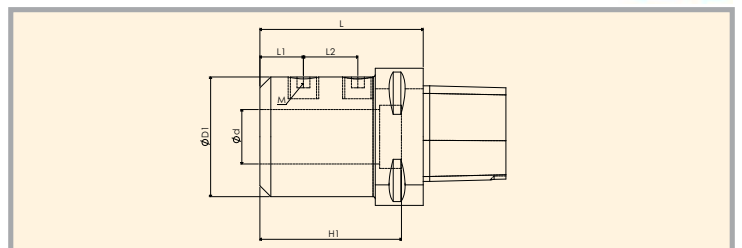
Please refer to page 55 for Milling Chuck KM Collets details.

Capto Morse Taper Holders



Part Number	Taper Size	D		D1		I1		I2		Drawing Bolt
		mm	inch	mm	inch	mm	inch	mm	inch	
AC3-MTA1-90	1	32	1.260	25	0.984	90	3.543	71.5	2.815	M6*30
AC3-MTA2-95	2	32	1.260	32	1.260	95	3.740	80	3.150	NA
AC4-MTA1-90	1	40	1.575	25	0.984	90	3.543	68	2.677	M6*30
AC4-MTA2-95	2	40	1.575	32	1.260	95	3.740	73	2.874	NA
AC4-MTA3-115	3	40	1.575	40	1.575	115	4.528	95	3.740	NA
AC5-MTA2-105	2	50	1.969	32	1.260	105	4.134	82	3.228	M10*35 (special)
AC5-MTA3-115	3	50	1.969	40	1.575	115	4.528	92	3.622	NA
AC5-MTA4-145	4	50	1.969	52	2.047	145	5.709	125	4.921	NA

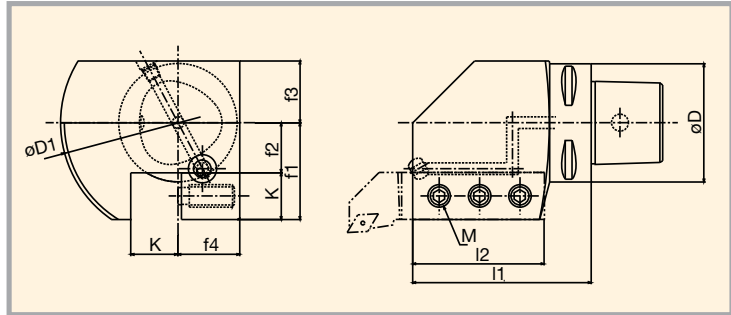
Capto End Mill Holders



Part Number	d		D1		L		H1		L1		L2		M	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
AC5-SLA20-65	20	0.787	50	1.969	65	2.559	60	2.362	17	0.669	20	0.787	10	0.394
AC5-SLA25-75	25	0.984	55	2.165	75	2.953	65	2.559	20	0.787	25	0.984	12	0.472
AC5-SLA32-80	32	1.260	60	2.362	80	3.150	70	2.756	23	0.906	25	0.984	16	0.630
AC5-SLA3/4-65	19.05	0.750	50	1.969	65	2.559	60	2.362	17	0.669	20	0.787	10	0.394
AC5-SLA1-75	25.4	1.000	55	2.165	75	2.953	65	2.559	20	0.787	25	0.984	12	0.472
AC5-SLA5/4-80	31.875	1.255	60	2.362	80	3.150	70	2.756	23	0.906	25	0.984	16	0.630

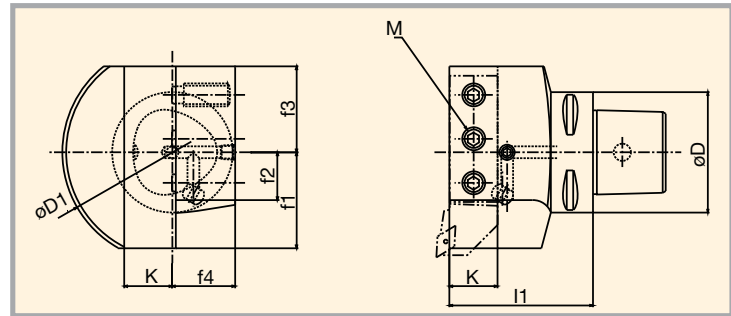
Capto Square Shank Holders and Tool Clamper

Capto Square Shank Holders



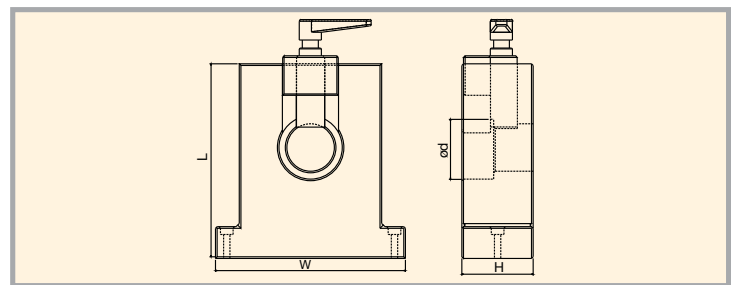
Part Number	Square Shank		D		D1		I1		I2		f1		f2		K		M
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
AC4-ABSB101-422LO	20	0.787	40	1.575	100	3.937	80	3.150	57	2.244	40	1.575	20	0.787	20	0.787	M10
AC4-ABSB101-422RO	20	0.787	40	1.575	100	3.937	80	3.150	57	2.244	40	1.575	20	0.787	20	0.787	M10
AC5-ABSB101-522LO	25	0.984	50	1.969	110	4.331	90	3.543	67	2.638	43	1.693	18	0.709	25	0.984	M12
AC5-ABSB101-522RO	25	0.984	50	1.969	110	4.331	90	3.543	67	2.638	43	1.693	18	0.709	25	0.984	M12

Capto Square Shank Holders



Part Number	Square Shank		D		D1		I1		f1		f2		K		M
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
AC4-ABSB101-421LO	20	0.787	40	1.575	95	3.740	60	2.362	40	1.575	20	0.787	20	0.787	M10
AC4-ABSB101-421RO	20	0.787	40	1.575	95	3.740	60	2.362	40	1.575	20	0.787	20	0.787	M10
AC5-ABSB101-521LO	25	0.984	50	1.969	110	4.331	70	2.756	50	1.969	25	0.984	25	0.984	M12
AC5-ABSB101-521RO	25	0.984	50	1.969	110	4.331	70	2.756	50	1.969	25	0.984	25	0.984	M12

Capto Tool Clamper



Part Number	Capto Size	d		W		H		L	
		mm	inch	mm	inch	mm	inch	mm	inch
AC4-TC40	C4	40	1.57	120	4.72	45	1.77	123	4.84
AC5-TC50	C5	50	1.97	120	4.72	50	1.97	143	5.63

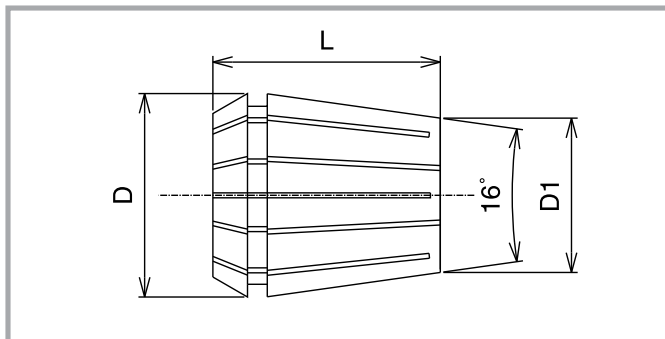
ER Series Collets

STANDARD (INCH)

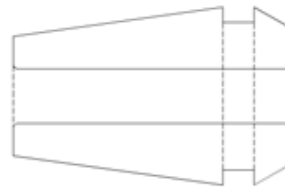
SIZE	ER16	ER20	ER25	ER32	ER40
1/32"	E16-002	-	-	-	-
1/16"	E16-004	E20-004	E25-004	-	-
3/32"	E16-006	E20-006	E25-006	-	-
1/8"	E16-008	E20-008	E25-008	E32-008	-
5/32"	E16-010	E20-010	E25-010	E32-010	E40-010
3/16"	E16-012	E20-012	E25-012	E32-012	E40-012
7/32"	E16-014	E20-014	E25-014	E32-014	E40-014
1/4"	E20-016	E20-016	E25-016	E32-016	E40-016
9/32"	E20-018	E20-018	E25-018	E32-018	E40-018
5/16"	E20-020	E20-020	E25-020	E32-020	E40-020
11/32"	E20-022	E20-022	E25-022	E32-022	E40-022
3/8"	E20-024	E20-024	E25-024	E32-024	E40-024
13/32"	E20-026	E20-026	E25-026	E32-026	E40-026
7/16"	-	E20-028	E25-028	E32-028	E40-028
15/32"	-	E20-030	E25-030	E32-030	E40-030
1/2"	-	E20-032	E25-032	E32-032	E40-032
17/32"	-	-	E25-034	E32-034	E40-034
9/16"	-	-	E25-036	E32-036	E40-036
19/32"	-	-	E25-038	E32-038	E40-038
5/8"	-	-	E25-040	E32-040	E40-040
21/32"	-	-	-	E32-042	E40-042
11/16"	-	-	-	E32-044	E40-044
23/32"	-	-	-	E32-046	E40-046
3/4"	-	-	-	E32-048	E40-048
25/32"	-	-	-	E32-050	E40-050
13/16"	-	-	-	-	E40-052
27/32"	-	-	-	-	E40-044
7/8"	-	-	-	-	E40-056
29/32"	-	-	-	-	E40-058
15/16"	-	-	-	-	E40-060
31/32"	-	-	-	-	E40-062
1"	-	-	-	-	E40-064

STANDARD (METRIC)

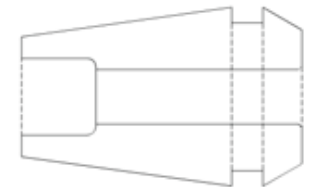
SIZE	ER16	ER20	ER25	ER32	ER40
1.0mm	E16-039	-	-	-	-
1.5mm	E16-059	-	-	-	-
2.0mm	E16-078	E20-078	E25-078	-	-
3.0mm	E16-118	E20-118	E25-118	E32-118	-
3.5mm	E16-137	E20-137	E25-137	E32-137	-
4.0mm	E16-157	E20-157	E25-157	E32-157	E40-157
5.0mm	E16-196	E20-196	E25-196	E32-196	E40-196
6.0mm	E16-236	E20-236	E25-236	E32-236	E40-236
7.0mm	E16-275	E20-275	E25-275	E32-275	E40-275
8.0mm	E16-314	E20-314	E25-314	E32-314	E40-314
9.0mm	E16-354	E20-354	E25-354	E32-354	E40-354
10.0mm	E16-393	E20-393	E25-393	E32-393	E40-393
11.0mm	-	E20-433	E25-433	E32-433	E40-433
11.5mm	-	E20-452	E25-452	E32-452	E40-452
12.0mm	-	E20-472	E25-472	E32-472	E40-472
13.0mm	-	E20-511	E25-511	E32-511	E40-511
14.0mm	-	-	E25-551	E32-551	E40-551
15.0mm	-	-	E25-590	E32-590	E40-590
16.0mm	-	-	E25-629	E32-629	E40-629
17.0mm	-	-	-	E32-669	E40-669
18.0mm	-	-	-	E32-708	E40-708
19.0mm	-	-	-	E32-748	E40-748
19.5mm	-	-	-	E32-767	E40-767
20.0mm	-	-	-	E32-787	E40-787
21.0mm	-	-	-	-	E40-826
22.0mm	-	-	-	-	E40-866
23.0mm	-	-	-	-	E40-905
24.0mm	-	-	-	-	E40-944
25.0mm	-	-	-	-	E40-984
26.0mm	-	-	-	-	E40-1023



ER Standard type collet



ER Counter-Bored type collet



Style	D	D1	L	Collet Range	Coolant Collet Size Range	Nut Tightening Torque	
						standard collet	counter-bored collet
ER16	17.2mm	11.3mm	27.0mm	0.5 - 10.0mm	4.0 - 10.0mm (3/16" - 17/64")	30 - 37 ft-lbs	18 - 22 ft-lbs
ER20	21.2mm	14.5mm	31.0mm	1.0 - 13.0mm	5.0 - 13.0mm (5/32" - 1/2")	60 - 74 ft-lbs	42 - 52 ft-lbs
ER25	26.2mm	18.5mm	35.0mm	1.0 - 16.0mm	6.0 - 16.0mm (7/32" - 5/8")	77 - 96 ft-lbs	54 - 67 ft-lbs
ER32	33.2mm	24.4mm	40.0mm	2.0 - 20.0mm	10.0 - 20.0mm (1/4" - 25/32")	100 - 125 ft-lbs	77 - 96 ft-lbs
ER40	41.2mm	31.2mm	46.0mm	3.0mm - 26.0mm	10.0 - 26.0mm	125 - 157 ft-lbs	130 - 162 ft-lbs

ER Series Coolant Collets

COOLANT (INCH)

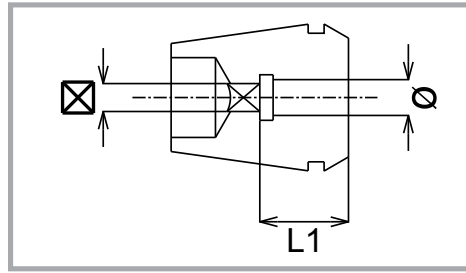
SIZE	ER16	ER20	ER25	ER32
3/32"	E16-006(C)	-	-	-
7/64"	E16-007(C)	-	-	-
1/8"	E16-008(C)	-	-	-
9/64"	E16-009(C)	-	-	-
5/32"	E16-010(C)	E20-010(C)	-	-
11/64"	E16-011(C)	E20-011(C)	-	-
3/16"	E16-012(C)	E20-012(C)	-	-
13/64"	E16-013(C)	E20-013(C)	-	-
7/32"	E16-014(C)	E20-014(C)	E25-014(C)	-
15/64"	E16-015(C)	E20-015(C)	E25-015(C)	-
1/4"	E16-016(C)	E20-016(C)	E25-016(C)	E32-016(C)
17/64"	E16-017(C)	E20-017(C)	E25-017(C)	E32-017(C)
9/32"	E16-018(C)	E20-018(C)	E25-018(C)	E32-018(C)
19/64"	E16-019(C)	E20-019(C)	E25-019(C)	E32-019(C)
5/16"	E16-020(C)	E20-020(C)	E25-020(C)	E32-020(C)
21/64"	E16-021(C)	E20-021(C)	E25-021(C)	E32-021(C)
11/32"	E16-022(C)	E20-022(C)	E25-022(C)	E32-022(C)
23/64"	E16-023(C)	E20-023(C)	E25-023(C)	E32-023(C)
3/8"	E16-024(C)	E20-024(C)	E25-024(C)	E32-024(C)
25/64"	E16-025(C)	E20-025(C)	E25-025(C)	E32-025(C)
13/32"	E16-026(C)	E20-026(C)	E25-026(C)	E32-026(C)
27/64"	-	E20-027(C)	E25-027(C)	E32-027(C)
7/16"	-	E20-028(C)	E25-028(C)	E32-028(C)
29/64"	-	E20-029(C)	E25-029(C)	E32-029(C)
15/32"	-	E20-030(C)	E25-030(C)	E32-030(C)
31/64"	-	E20-031(C)	E25-031(C)	E32-031(C)
1/2"	-	E20-032(C)	E25-032(C)	E32-032(C)
33/64"	-	-	E25-033(C)	E32-033(C)
17/32"	-	-	E25-034(C)	E32-034(C)
35/64"	-	-	E25-035(C)	E32-035(C)
9/16"	-	-	E25-036(C)	E32-036(C)
37/64"	-	-	E25-037(C)	E32-037(C)
19/32"	-	-	E25-038(C)	E32-038(C)
39/64"	-	-	E25-039(C)	E32-039(C)
5/8"	-	-	E25-040(C)	E32-040(C)
41/64"	-	-	-	E32-041(C)
21/32"	-	-	-	E32-042(C)
43/64"	-	-	-	E32-043(C)
11/16"	-	-	-	E32-044(C)
45/64"	-	-	-	E32-045(C)
23/32"	-	-	-	E32-046(C)
47/64"	-	-	-	E32-047(C)
3/4"	-	-	-	E32-048(C)
49/64"	-	-	-	E32-049(C)
25/32"	-	-	-	E32-050(C)

COOLANT (METRIC)

SIZE	ER16	ER20	ER25	ER32	ER40
4.0mm	E16-157(C)	-	-	-	-
4.5mm	E16-177(C)	-	-	-	-
5.0mm	E16-196(C)	E20-196(C)	-	-	-
5.5mm	E16-216(C)	E20-216(C)	-	-	-
6.0mm	E16-236(C)	E20-236(C)	E25-236(C)	-	-
6.5mm	E16-255(C)	E20-255(C)	E25-255(C)	-	-
7.0mm	E16-275(C)	E20-275(C)	E25-275(C)	-	-
7.5mm	E16-295(C)	E20-295(C)	E25-295(C)	-	-
8.0mm	E16-314(C)	E20-314(C)	E25-314(C)	-	-
8.5mm	E16-334(C)	E20-334(C)	E25-334(C)	-	-
9.0mm	E16-354(C)	E20-354(C)	E25-354(C)	-	-
9.5mm	E16-374(C)	E20-374(C)	E25-374(C)	-	-
10.0mm	E16-393(C)	E20-393(C)	E25-393(C)	E32-393(C)	E40-393(C)
10.5mm	-	E20-413(C)	E25-413(C)	E32-413(C)	E40-413(C)
11.0mm	-	E20-433(C)	E25-433(C)	E32-433(C)	E40-433(C)
11.5mm	-	E20-452(C)	E25-452(C)	E32-452(C)	E40-452(C)
12.0mm	-	E20-472(C)	E25-472(C)	E32-472(C)	E40-472(C)
12.5mm	-	E20-492(C)	E25-492(C)	E32-492(C)	E40-492(C)
13.0mm	-	E20-511(C)	E25-511(C)	E32-511(C)	E40-511(C)
13.5mm	-	-	E25-531(C)	E32-531(C)	E40-531(C)
14.0mm	-	-	E25-551(C)	E32-551(C)	E40-551(C)
14.5mm	-	-	E25-570(C)	E32-570(C)	E40-570(C)
15.0mm	-	-	E25-590(C)	E32-590(C)	E40-590(C)
15.5mm	-	-	E25-610(C)	E32-610(C)	E40-610(C)
16.0mm	-	-	E25-629(C)	E32-629(C)	E40-629(C)
16.5mm	-	-	-	E32-649(C)	E40-649(C)
17.0mm	-	-	-	E32-669(C)	E40-669(C)
17.5mm	-	-	-	E32-688(C)	E40-688(C)
18.0mm	-	-	-	E32-708(C)	E40-708(C)
18.5mm	-	-	-	E32-728(C)	E40-728(C)
19.0mm	-	-	-	E32-748(C)	E40-748(C)
19.5mm	-	-	-	E32-767(C)	E40-767(C)
20.0mm	-	-	-	E32-787(C)	E40-787(C)
20.5mm	-	-	-	-	E40-807(C)
21.0mm	-	-	-	-	E40-826(C)
21.5mm	-	-	-	-	E40-846(C)
22.0mm	-	-	-	-	E40-866(C)
22.5mm	-	-	-	-	E40-885(C)
23.0mm	-	-	-	-	E40-905(C)
23.5mm	-	-	-	-	E40-925(C)
24.0mm	-	-	-	-	E40-944(C)
24.5mm	-	-	-	-	E40-964(C)
25.0mm	-	-	-	-	E40-984(C)
25.5mm	-	-	-	-	E40-1003(C)
26.0mm	-	-	-	-	E40-1023(C)



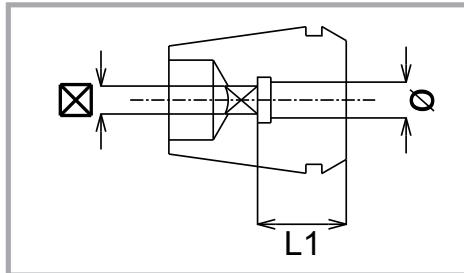
ER Tap Collets



ER Tap Collets feature a unique design that incorporates an internal square drive with our popular ER Series collets. The square drive matches the tap square, providing a tight fit for all rigid tapping applications.

PART NUMBER	TAP INCH SIZE	TAP METRIC SIZE	L1	Ø	⊠
ET16-168	#8, 5/32"	M4	18.0mm	0.168	0.131
ET16-194	#10, 3/16"	M4.5, M5	18.0mm	0.194	0.152
ET16-220	#12, 7/32"	-	18.0mm	0.220	0.165
ET16-255	#14, 1/4"	M6, M6.5	18.0mm	0.255	0.191
ET20-168	#8, 5/32"	M4	18.0mm	0.168	0.131
ET20-194	#10, 3/16"	M4.5, M5	18.0mm	0.194	0.152
ET20-220	#12, 7/32"	-	18.0mm	0.220	0.165
ET20-255	#14, 1/4"	M6, M6.5	18.0mm	0.255	0.191
ET20-318	5/16"	M7, M6.5	18.0mm	0.318	0.238
ET20-323	7/16"	-	18.0mm	0.323	0.242
ET20-367	1/2"	M12, M12.5	18.0mm	0.367	0.275
ET20-381	3/8"	M10	18.0mm	0.381	0.286
ET25-168	#8, 5/32"	M4	18.0mm	0.168	0.131
ET25-194	#10, 3/16"	M4.5, M5	18.0mm	0.194	0.152
ET25-220	#12, 7/32"	-	18.0mm	0.220	0.165
ET25-255	#14, 1/4"	M6, M6.5	18.0mm	0.255	0.191
ET25-318	5/16"	M7, M6.5	18.0mm	0.318	0.238
ET25-323	7/16"	-	18.0mm	0.323	0.242
ET25-367	1/2"	M12, M12.5	18.0mm	0.367	0.275
ET25-381	3/8"	M10	18.0mm	0.381	0.286
ET25-429	9/16"	M14	22.0mm	0.429	0.322
ET25-437	1/8" NPT(L)	-	22.0mm	0.437	0.328
ET25-480	5/8"	M16	25.0mm	0.480	0.360
ET32-168	#8, 5/32"	M4	18.0mm	0.168	0.131
ET32-194	#10, 3/16"	M4.5, M5	18.0mm	0.194	0.152
ET32-220	#12, 7/32"	-	18.0mm	0.220	0.165
ET32-255	#14, 1/4"	M6, M6.5	18.0mm	0.255	0.191
ET32-318	5/16"	M7, M6.5	18.0mm	0.318	0.238
ET32-323	7/16"	-	18.0mm	0.323	0.242
ET32-367	1/2"	M12, M12.5	18.0mm	0.367	0.275
ET32-381	3/8"	M10	18.0mm	0.381	0.286
ET32-429	9/16"	M14	22.0mm	0.429	0.322
ET32-437	1/8" NPT	-	22.0mm	0.437	0.328
ET32-480	5/8"	M16	25.0mm	0.480	0.360
ET32-542	11/16"	M18	25.0mm	0.542	0.406
ET32-562	1/4" NPT	-	25.0mm	0.562	0.421
ET32-590	3/4"	-	25.0mm	0.590	0.422
ET32-652	13/16"	M20	25.0mm	0.652	0.489
ET40-255	#14, 1/4"	M6, M6.5	18.0mm	0.255	0.191
ET40-318	5/16"	M7, M6.5	18.0mm	0.318	0.238
ET40-323	7/16"	-	18.0mm	0.323	0.242
ET40-367	1/2"	M12, M12.5	18.0mm	0.367	0.275
ET40-381	3/8"	M10	18.0mm	0.381	0.286
ET40-429	9/16"	M14	22.0mm	0.429	0.322
ET40-437	1/8" NPT	-	22.0mm	0.437	0.328
ET40-480	5/8"	M16	25.0mm	0.480	0.360
ET40-542	11/16"	M18	25.0mm	0.542	0.406
ET40-562	1/4" NPT	-	25.0mm	0.562	0.421
ET40-590	3/4"	-	25.0mm	0.590	0.422
ET40-652	13/16"	M20	25.0mm	0.652	0.489
ET40-687	1/2" NPT	-	25.0mm	0.687	0.515
ET40-697	7/8"	M22	25.0mm	0.697	0.523
ET40-700	3/8" NPT	-	25.0mm	0.700	0.531
ET40-760	15/16"	M24	25.0mm	0.760	0.570
ET40-800	1"	M25	28.0mm	0.800	0.600

ER Tap Coolant Collets



Lyndex-Nikken has now combined the versatility of our ER tapping collets with the popularity of our coolant collets to create our patented ER Coolant Tap Collets.

PART NUMBER	TAP INCH SIZE	TAP METRIC SIZE	L1	Ø	☒
ET16-255(C)	#14, 1/4"	M6, M6.5	18.0mm	0.255	0.191
ET16-318(C)	5/16"	M7, M6.5	18.0mm	0.318	0.238
ET20-255(C)	#14, 1/4"	M6, M6.5	18.0mm	0.255	0.191
ET20-318(C)	5/16"	M7, M6.5	18.0mm	0.318	0.238
ET20-323(C)	7/16"	-	18.0mm	0.323	0.242
ET20-367(C)	1/2"	M12, M12.5	18.0mm	0.367	0.275
ET20-381(C)	3/8"	M10	18.0mm	0.381	0.286
ET25-318(C)	5/16"	M7, M6.5	18.0mm	0.318	0.238
ET25-323(C)	7/16"	-	18.0mm	0.323	0.242
ET25-367(C)	1/2"	M12, M12.5	18.0mm	0.367	0.275
ET25-381(C)	3/8"	M10	18.0mm	0.381	0.286
ET25-429(C)	9/16"	M14	22.0mm	0.429	0.322
ET25-480(C)	5/8"	M16	25.0mm	0.480	0.360
ET32-255(C)	#14, 1/4"	M6, M6.5	18.0mm	0.255	0.191
ET32-318(C)	5/16"	M7, M6.5	18.0mm	0.318	0.238
ET32-323(C)	7/16"	-	18.0mm	0.323	0.242
ET32-367(C)	1/2"	M12, M12.5	18.0mm	0.367	0.275
ET32-381(C)	3/8"	M10	18.0mm	0.381	0.286
ET32-429(C)	9/16"	M14	22.0mm	0.429	0.322
ET32-480(C)	5/8"	M16	25.0mm	0.480	0.360
ET32-542(C)	11/16"	M18	25.0mm	0.542	0.406
ET32-590(C)	3/4"	-	25.0mm	0.590	0.422
ET32-652(C)	13/16"	M20	25.0mm	0.652	0.489
ET40-323(C)	7/16"	-	18.0mm	0.323	0.242
ET40-367(C)	1/2"	M12, M12.5	18.0mm	0.367	0.275
ET40-381(C)	3/8"	M10	18.0mm	0.381	0.286
ET40-429(C)	9/16"	M14	22.0mm	0.429	0.322
ET40-480(C)	5/8"	M16	25.0mm	0.480	0.360
ET40-542(C)	11/16"	M18	25.0mm	0.542	0.406
ET40-590(C)	3/4"	-	25.0mm	0.590	0.422
ET40-652(C)	13/16"	M20	25.0mm	0.652	0.489
ET40-697(C)	7/8"	M22	25.0mm	0.697	0.523
ET40-760(C)	15/16"	M24	25.0mm	0.760	0.570
ET40-800(C)	1"	M25	28.0mm	0.800	0.600

Note: Seals up to maximum coolant pressure of 1000 PSI.

Replacement Set Screws for End Mill Holders



Part Number	Size of Holder I.D.
S5/8-18X1/2	3/4", 7/8", 18 - 20mm
S3/4-16X11/16	1", 1-1/4", 1-1/2", 25 - 42mm

Replacement Arbor Screws for Shell Mill Holders



Part Number	Description
A1/2-20	use with 1" holders
A10mm-P1.5	use with 22.0mm holders

Milling Chuck Collet and Wrench



Milling Chuck Collets are designed to insure uniform collapsing around the cutting tool shank. This provides maximum gripping power as well as concentric positioning of the cutting tool.

Part Number	Size
9HC22	3/4" and 20mm Milling Chuck Spanner Wrench

20mm KM COLLET (METRIC)

Part Number	Size
KM20-3	3.0mm
KM20-4	4.0mm
KM20-6	6.0mm
KM20-8	8.0mm
KM20-10	10.0mm
KM20-12	12.0mm
KM20-16	16.0mm

16mm KM COLLET (METRIC)

Part Number	Size
KM16-3	3.0mm
KM16-4	4.0mm
KM16-6	6.0mm
KM16-8	8.0mm
KM16-10	10.0mm
KM16-12	12.0mm
KM16-16	16.0mm

3/4" KM COLLET (METRIC)

Part Number	Size
KM3/4-4	4mm
KM3/4-6	6mm
KM3/4-8	8mm
KM3/4-10	10mm
KM3/4-12	12mm
KM3/4-16	16mm

20mm KM COLLET (INCH)

Part Number	Size
KM20-1/8	1/8"
KM20-3/16	3/16"
KM20-1/4	1/4"
KM20-5/16	5/16"
KM20-3/8	3/8"
KM20-7/16	7/16"
KM20-1/2	1/2"
KM20-9/16	9/16"
KM20-5/8	5/8"

16mm KM COLLET (INCH)

Part Number	Size
KM16-1/8	1/8"
KM16-3/16	3/16"
KM16-1/4	1/4"
KM16-5/16	5/16"
KM16-3/8	3/8"
KM16-7/16	7/16"
KM16-1/2	1/2"

3/4" KM COLLET (INCH)

Part Number	Size
KM3/4-1/8	1/8"
KM3/4-3/16	3/16"
KM3/4-1/4	1/4"
KM3/4-5/16	5/16"
KM3/4-3/8	3/8"
KM3/4-7/16	7/16"
KM3/4-1/2	1/2"
KM3/4-5/8	5/8"

TQW Torque Wrenches



The TQW Torque Wrench is very accurate and easy-to-use, guaranteeing maximum accuracy and preventing tool overtightening or breakage.

- Variable torque adjustable wrench
- Robust and durable
- Ergonomic grip
- Easy to read inch and metric scale
- Strong steel shaft is highly corrosion resistant
- Easy to set up and operation:
 - A. Set wrench to desired torque setting
 - B. Insert attachment
 - C. Torque down on collet nut until it clicks in place



A wide selection of attachments are available: ER, SK, TG, Pull Stud, Milling Chuck, Capto

Design and Construction



A "Push-Button Locking Device" securely locks the preset torque and prevents inadvertent adjustment.



Handle is shaped to provide a firm and ergonomic grip.

Collet Number	Part Number	Attachments (Type and Size)			Torque Range		Torque Wrench	
		Description	mm	inch	lbs	Nm	Part Number	Description
ER8	TQW-ER08	Blank	Special Attachment - Call		4	6	TQW-025	14X18, 25ft.lbs
ER11	TQW-ER11(17)	Hex/OE	17	0.67	11	15		
ER16	TQW-ER16(32)	Hook	32 [+/-5mm]	1.25	40	54	TQW-150	14X18, 150ft.lbs
ER20	TQW-ER20(32)		32 [+/-5mm]	1.25	60	81		
ER25	TQW-ER25(43)		43 [+/-5mm]	1.69	75	102		
ER32	TQW-ER32(50)		50 [+/-5mm]	1.96	100	136		
ER40	TQW-ER40(63)		63 [+/-5mm]	2.48	125	169		
ER40	TQW-ER40(63)		63 [+/-5mm]	2.48	125	169		
SK6	TQW-SK06(18)	Hex/OE	18	0.71	14	19	TQW-025	14X18, 25ft.lbs
SK10	TQW-SK10(1)		25.4	1.00	33-34	45-46	TQW-150	14X18, 150ft.lbs
SK16	TQW-SK16(43)	Hook	43 [+/-5mm]	1.69	55-62	74-84		
SK25	TQW-SK25(60)		60 [+/-5mm]	2.36	66-73	90-99		
TG75	TQW-TG075(50)	Hook	50 [+/-5mm]	1.96	55	75	TQW-150	14X18, 150ft.lbs
TG100	TQW-TG100(63)		63 [+/-5mm]	2.48	75	102		
TG150	TQW-TG150(82)		82 [+/-5mm]	3.22	100	136		
Pull-Stud-13mm	TQW-PS(13)	Hex/OE	13	0.51	14 ~ 18	19 to 25	TQW-025	14X18, 25ft.lbs
Pull-Stud-3/4 (19mm)	TQW-PS(19)		19	0.75	44 ~ 59	60 to 80	TQW-150	14X18, 150ft.lbs
Pull-Stud-30mm	TQW-PS(30)		30	1.18	147 ~ 185	200 to 250		
Pull-Stud-1.1/4	TQW-PS(32)		31.75	1/1/2004	147 ~ 185	200 to 250		
Milling Chuck 3/4"	TQW-C3/4(50)	Hook	50 [+/-5mm]	1.96	19 to 24	26-32	TQW-150	14X18, 150ft.lbs
Milling Chuck 1"	TQW-C1(60)		60 [+/-5mm]	2.36	27 to 31	36-42		
Milling Chuck 1.1/4"	TQW-C1/4(72)		72 [+/-5mm]	2.83	48 to 59	65-80		
Capto C3	TQW-CAPTO3(12)	Hex	12	0.47	26	35	TQW-150	14X18, 150ft.lbs
Capto C4	TQW-CAPTO4(10)		10	0.39	37	50		
Capto C5	TQW-CAPTO5(8)		8	0.31	52	70		

Wrench Instructions



1 Insert spindle wrench behind collet nut. Align spindle wrench with the wrench flats on the spindle.



2 After securing spindle wrench in position, apply collet nut wrench onto collet nut.



3 While holding the spindle wrench firmly, turn the collet nut wrench clockwise to tighten.

Service and Support

Lyndex-Nikken is dedicated to providing not only the highest quality of equipment, but also the highest quality of service and customer care. With over 60 years of experience, our service engineers are looking forward to supporting your needs beyond your expectations.

We fully stock all internal components to provide an expedited and cost-effective maintenance program and rebuild package for your live tooling. Managing a maintenance schedule for all your machine tool accessory components can be challenging, so we'll be glad to remind you when the time comes.

Furthermore, to prevent an interruption in your production schedule, for certain models we can offer a "loaner" live tool while your live tool is under repair.

Warranty:

1 year warranty for internal components

2 year manufacturer warranty on external body

For any service request or inquiry, please contact our service department: (847) 367-4800

CNC Rotary Tables

We offer a complete line of extremely accurate Nikken Rotary Tables. Featuring patented hardened assemblies, they retain their precision for years. Please call Lyndex-Nikken for more information: (800) 543-6237.



Worm Wheel System

Installation Service

Lyndex-Nikken regional managers will assist you with product selection, integration and installation, guaranteeing complete customer satisfaction. Installation service includes drive, cable, table installation, parameter changes and documentation. Call Lyndex-Nikken for more information: (800) 543-6237.



U.S. Patent 5385424 (Brake System)



5AX-201

All-Precision Toolholders

Lyndex-Nikken advanced products are innovatively designed to tackle the most complex and demanding applications. They guarantee a runout within 3 micron at 4 times the diameter beyond collet nut.



AngleHeads™

Our large range of AngleHeads™ is designed to easily and effectively upgrade your machine tool capabilities by eliminating additional set ups.

Units are equipped with 4340 ground gear and ground shaft components, high precision spindle bearings (P4 quality) and cast iron bodies for vibration dampening. Each tool also features high torque capabilities for aggressive milling and drilling.

Visit www.lyndexnikken.com to learn more about our complete line of AngleHeads, or call (800) 543-6237.



www.lyndexnikken.com
(800) 543-6237
CAT2010-MORI-LT