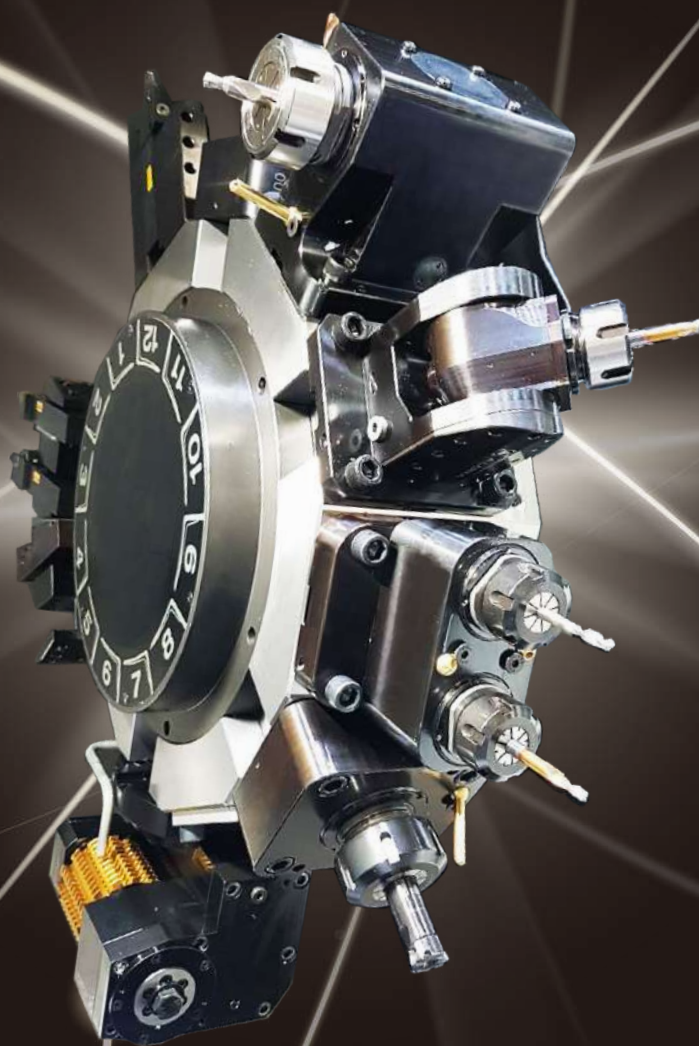




MONGTEC®
CNC職人のこだわり



MONGTEC-TOOLS.COM

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BODY

Re-designed main body to improve rigidity and reduce vibration.
Specially treated corrosion resistant steel body

Torque and Speed

With Speeder 1:4 : 32,000 Rpm
Standard 1:1 : 6000~12000Rpm
Max Torque : 160Nm

Internal Coolant

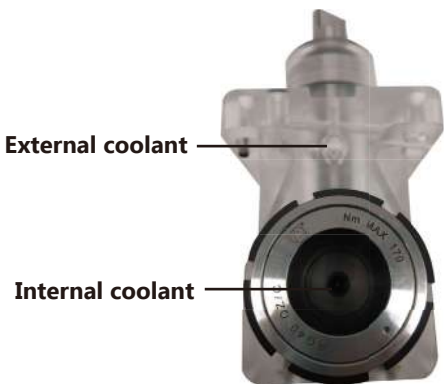
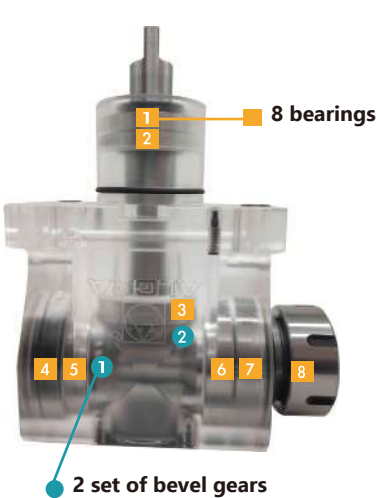
Max Pressure : 70-100 bar

Bearings

Angular contact preloaded ball bearings of precision class P4 / ABEC 9.

Internal Coolant

Gleason computer based calculations for the Gleason cut spiral bevel drive gears with ground teeth in order to guarantee a bigger torque.



Quick Change



Max 100 bar
Internal coolant



speed



Special tool



Asia service center



Quality

Our Partners

Toolholders for more than 6000 combinations

VDI / BMT / External coolant / Internal coolant



0 degree driven toolholders

6000~12000 rpm



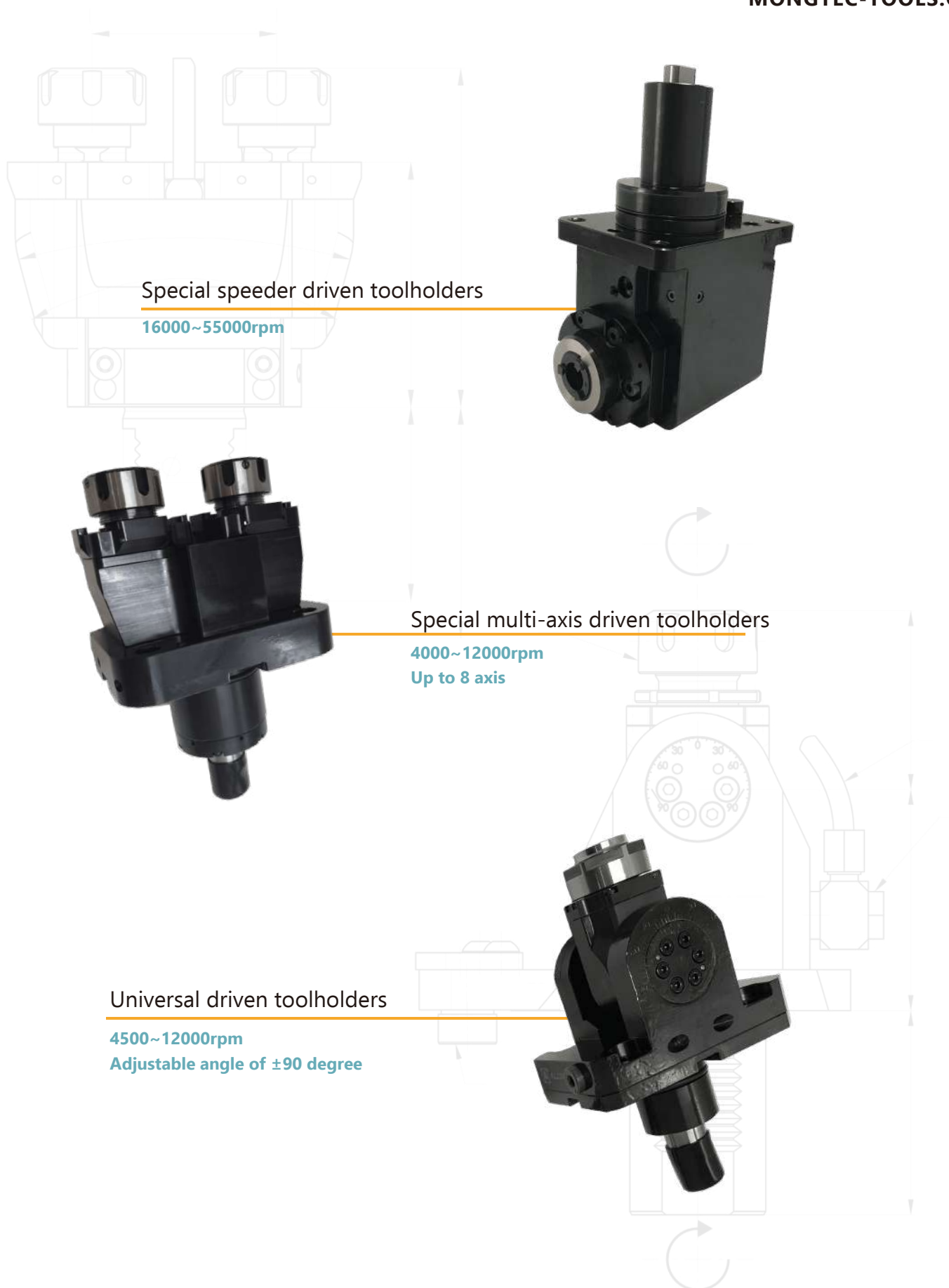
90 degree driven toolholders

4000~12000 rpm

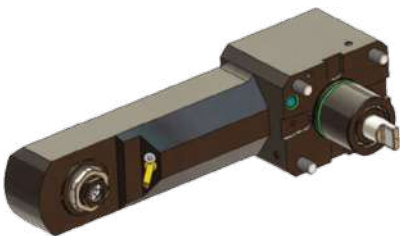


Double 90 degree driven toolholders

4000~12000 rpm

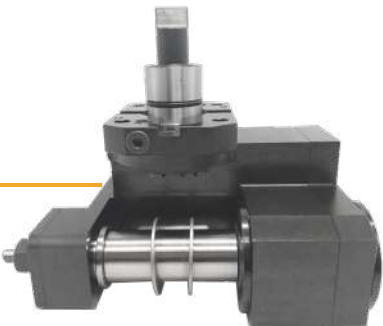


If you have other application requirements for special toolholders, please contact Mongtec sales team.



Special internal groove driven toolholders

Gear hobbing driven toolholders
Arbor 16/22/27,Adjustable angle $\pm 30^{\circ} \sim 50^{\circ}$



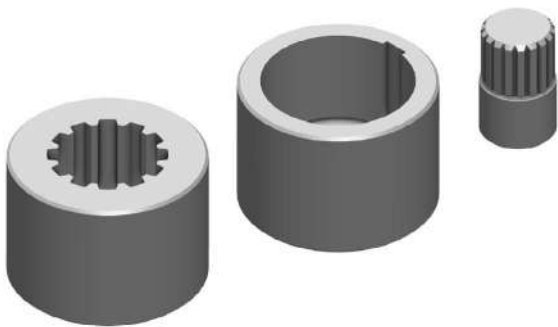
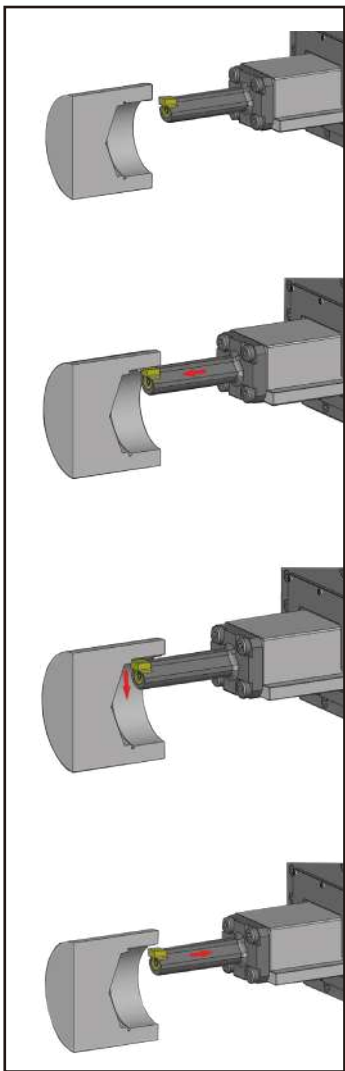
PSC Quick Change System

Toolholders can be customized according to customer's requirement



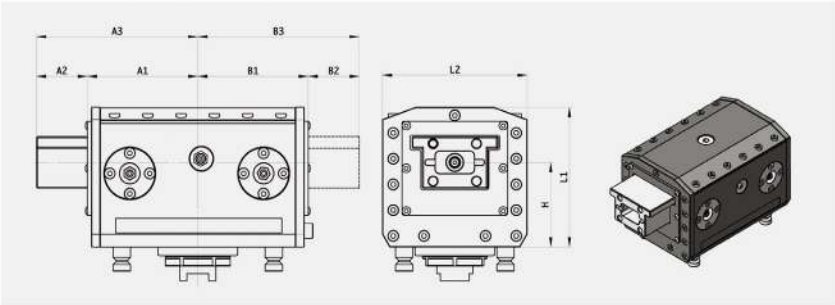
Polygonal cone	Repeat accuracy is $\pm 2\mu\text{m}$.
High pressure coolant	High pressure coolant supply up to 130 bar increases efficiency and extends tool life.
Quick change	Quick change inserts within 30 seconds.

Broaching Unit Toolholders



DIFFERENT SIZES

SLOTTER NUMBER	STROKE (mm)	A1 (mm)	A2 (mm)	A3 (mm)	B1 (mm)	B2* (mm)	B3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)
ALST-25	25	50	27	77	46	27	73	52	63	30
ALST-35	35	76	35	111	76	35	111	95	100	58
ALST-50	50	91	50	141	76	50	126	95	110	58
ALST-65	65	106	65	171	76	65	141	97	125	57.5



* Dimension to consider during machining

If you have other application requirements for special toolholders, please contact Mongtec team, we accept OEM service for machine makers



OD static toolholders



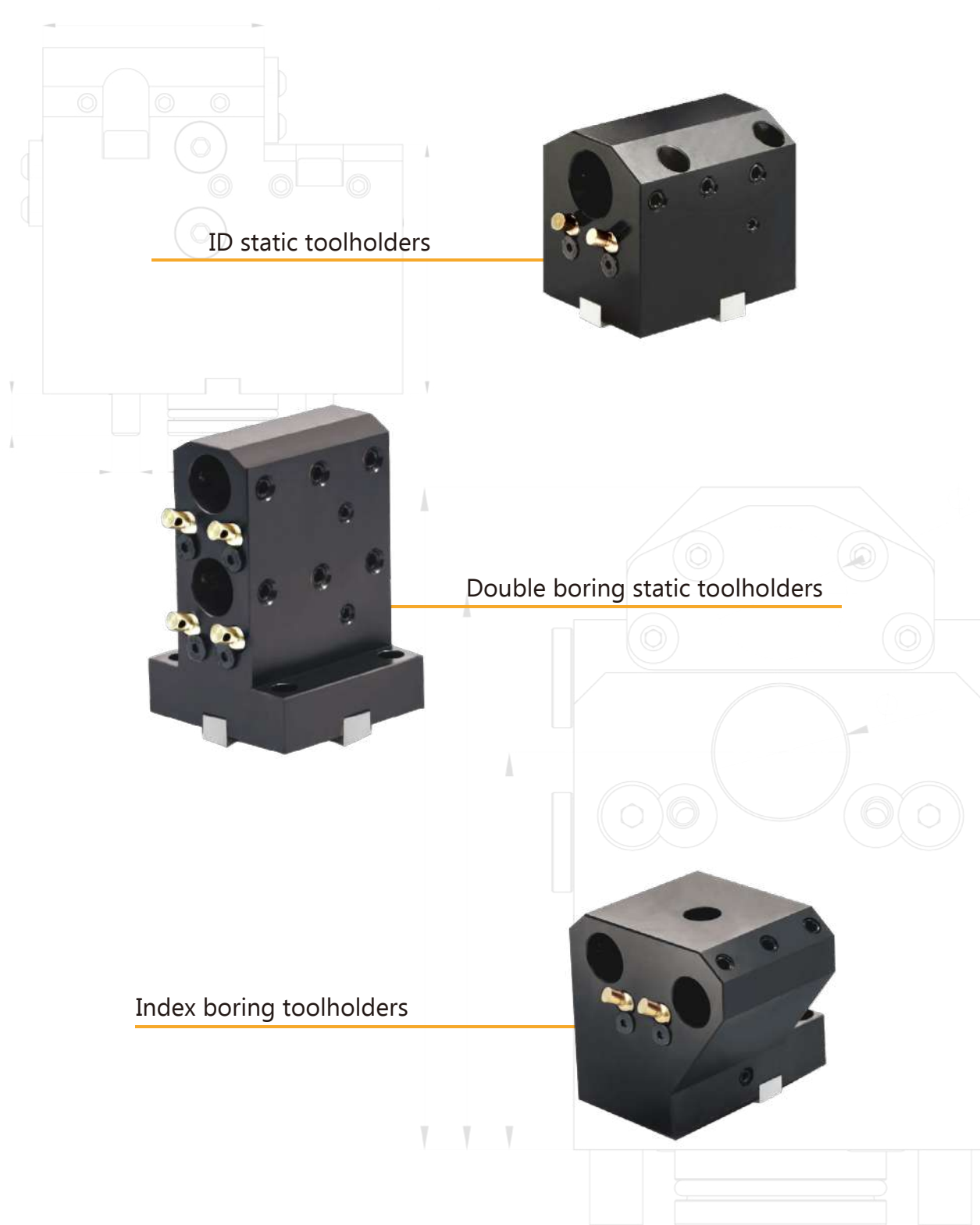
Face static toolholders



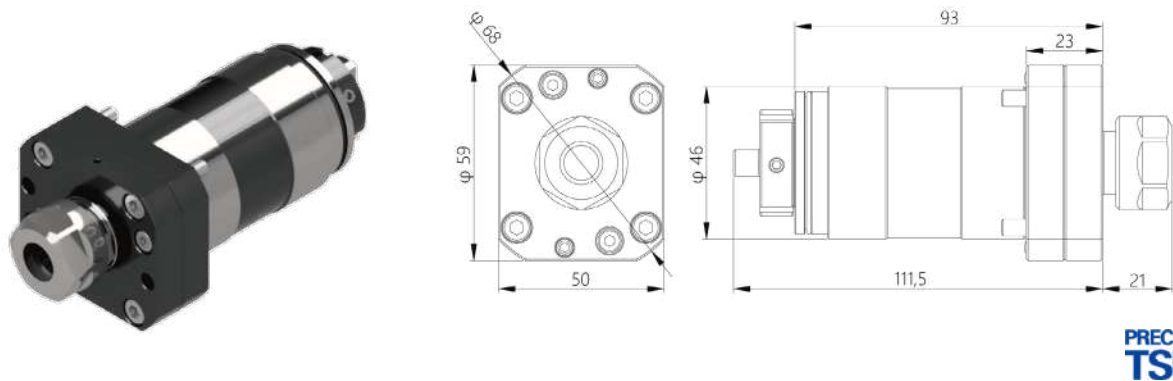
Double OD static toolholders

Custom made toolholders



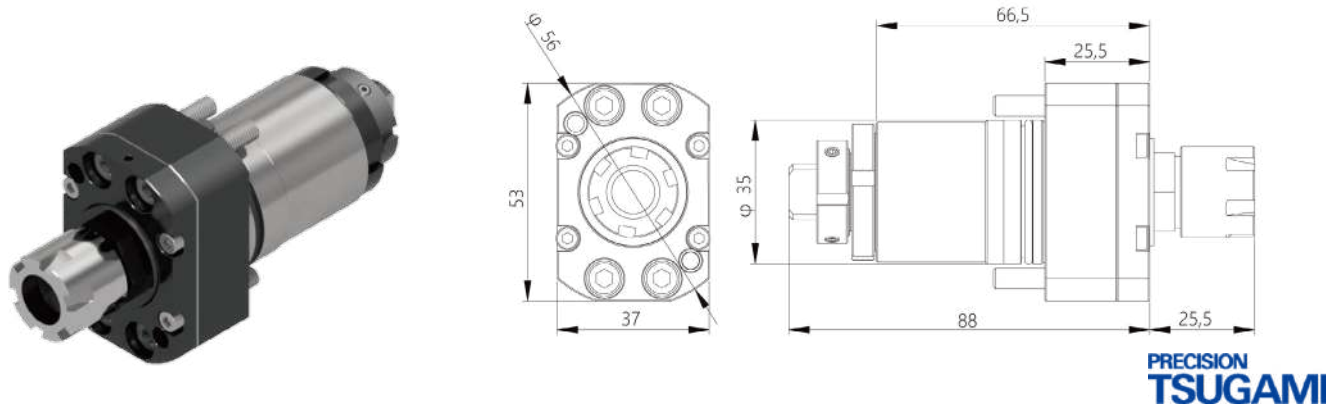


Axial toolholders



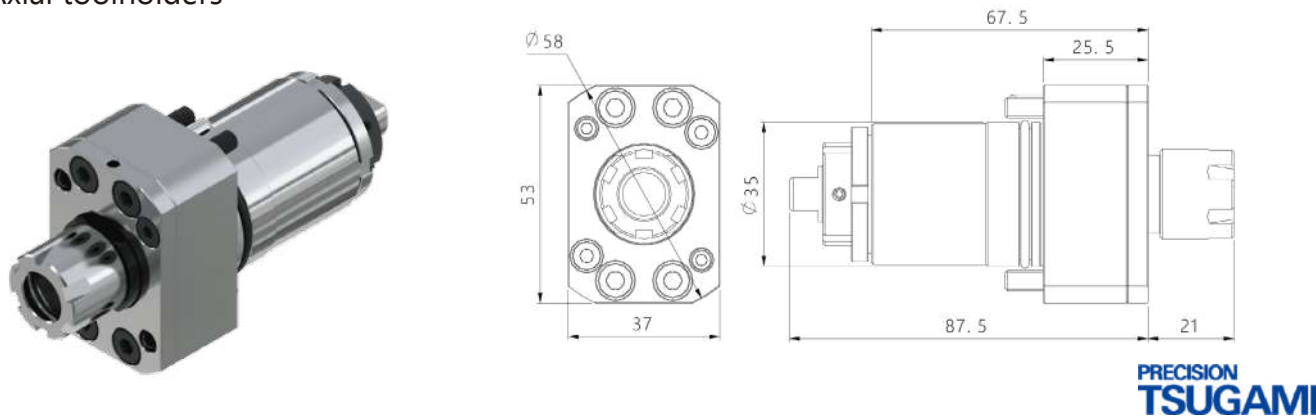
Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	TSUGAMI Code
10.0	46	1 : 1	6000rpm	ER16	3268-T051	3268-T051

Axial toolholders



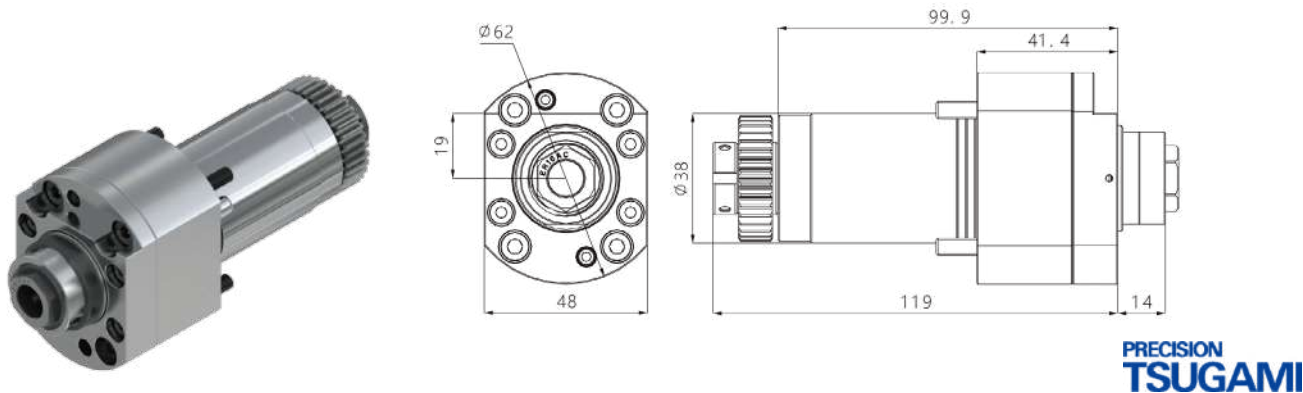
Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	TSUGAMI Code
10.0	35	1 : 1	8000rpm	ER16	3281-S080	3281-S080

Axial toolholders



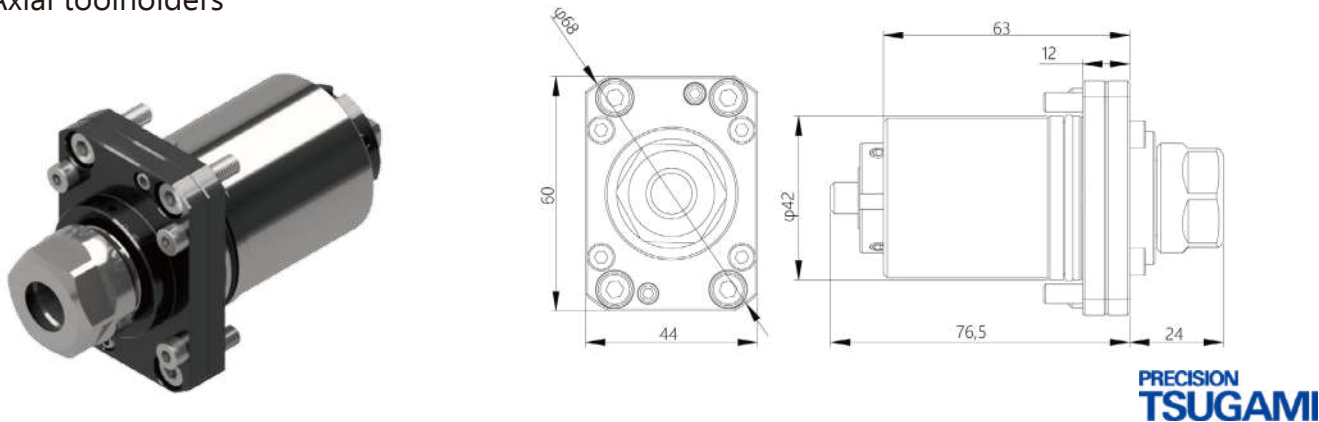
Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	TSUGAMI Code
10.0	35	1 : 1	8000rpm	ER16	3281-Z79098	3281-Z79098

Axial toolholders



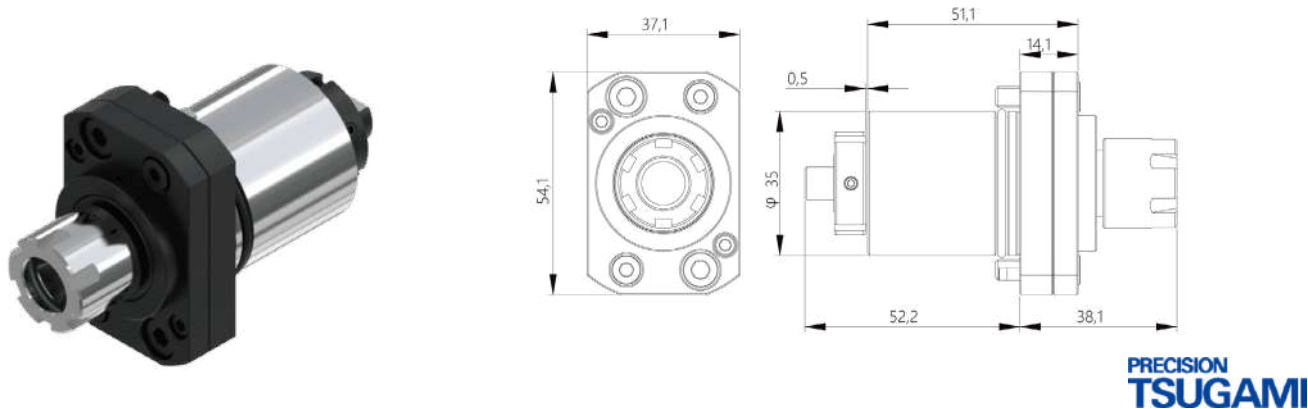
Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	TSUGAMI Code
10.0	38	1 : 1	6000rpm	ER16	3281-Z74045-0100	3281-Z74045-0100

Axial toolholders



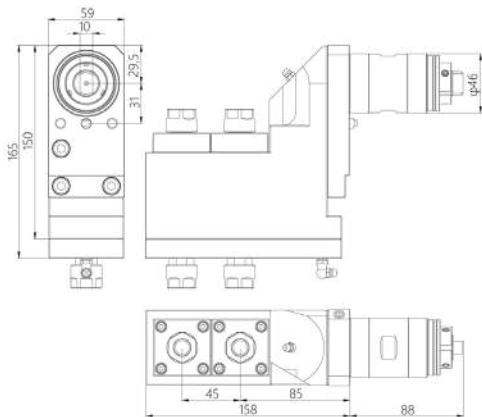
Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	TSUGAMI Code
10.0	42	1 : 1	6000rpm	ER16	3282-Y041	3282-Y041

Axial toolholders



Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	TSUGAMI Code
10.0	35	1 : 1	6000rpm	ER16	3220-Y7072	3220-Y7072

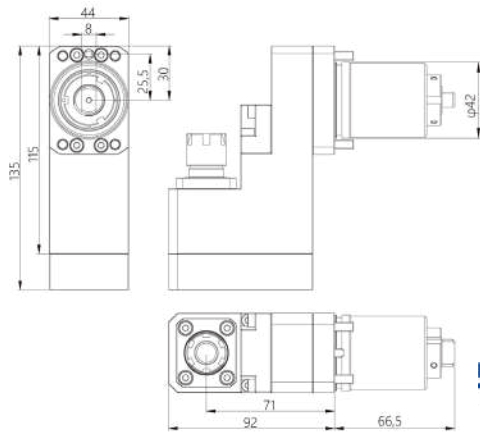
Radial 4 spindles toolholders



PRECISION
TSUGAMI

Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	TSUGAMI Code
10.0	46	1 : 1	6000rpm	ER16	3282-Y901	3282-Y901

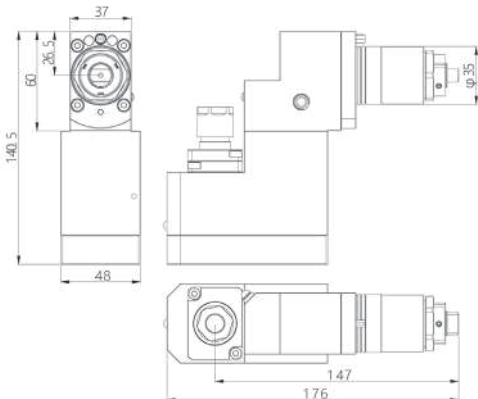
Radial offset toolholders



PRECISION
TSUGAMI

Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	TSUGAMI Code
10.0	42	1 : 1	6000rpm	ER16	3290-Y041	3290-Y041

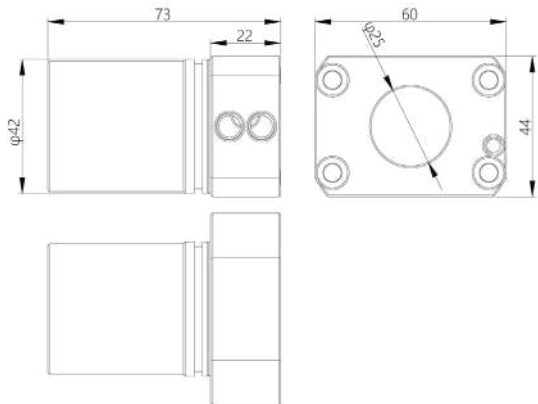
Radial offset toolholders



PRECISION
TSUGAMI

Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	TSUGAMI Code
10.0	35	1 : 1	8000rpm	ER16	3281-Y461-9010	3281-Y461-9010

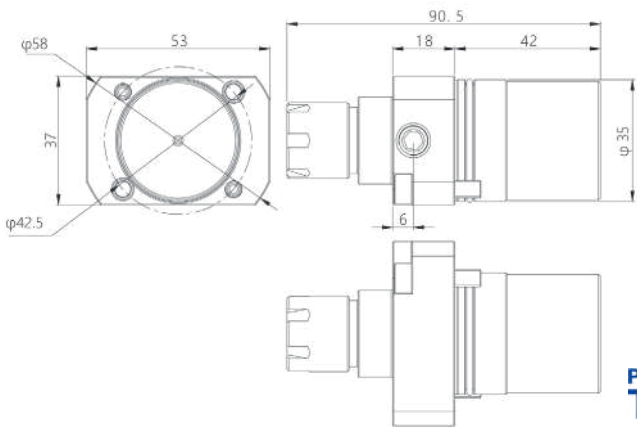
Sleeves(internal coolant)



PRECISION
TSUGAMI

Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	TSUGAMI Code
25.0	42	—	—	—	3282-Y212	3282-Y212

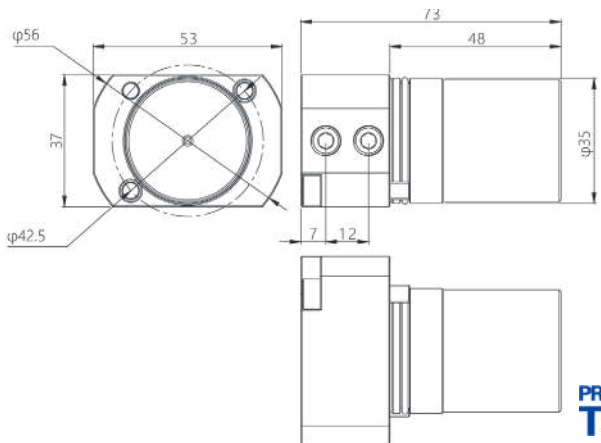
Static drilling toolholders



PRECISION
TSUGAMI

Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	TSUGAMI Code
10.0	35	—	—	ER16	3282-Z71051-9010	3282-Z71051-9010

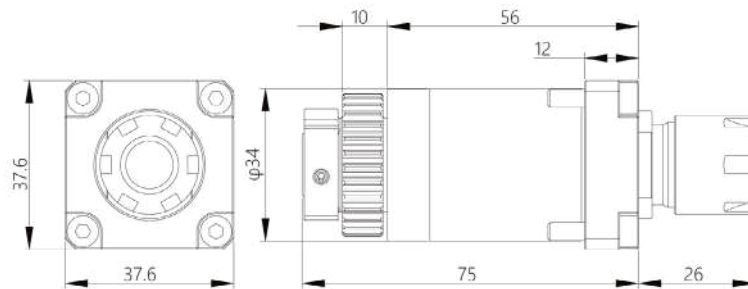
Sleeves



PRECISION
TSUGAMI

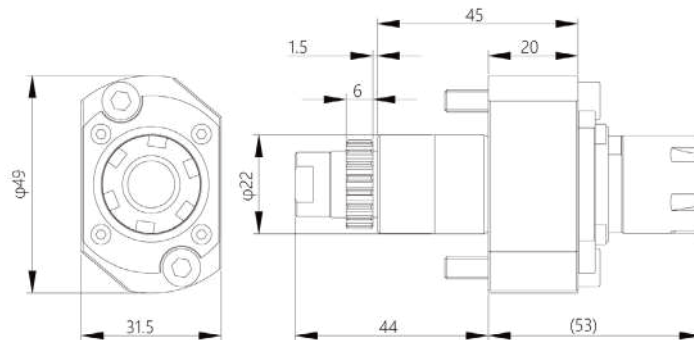
Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	TSUGAMI Code
20.0	35	—	—	—	3281-Z79055-0302	3281-Z79055-0302

Axial toolholders



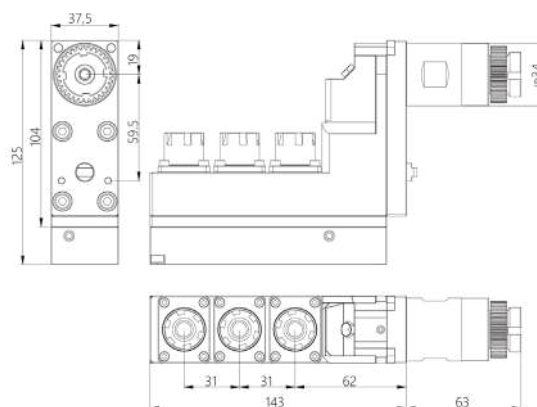
Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	STAR Code
10.0	34	1 : 1	8000rpm	ER16	33150	33150

Axial toolholders



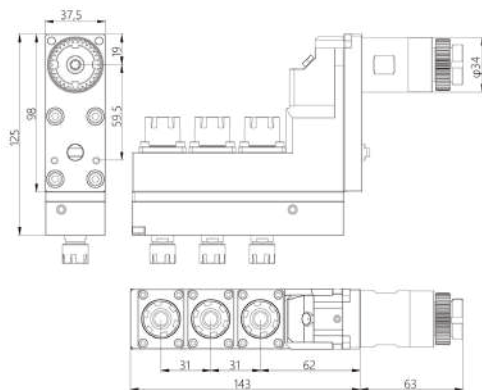
Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	STAR Code
10.0	22	1 : 1	6000rpm	ER16	57161	57161

Radial 3 spindles toolholders



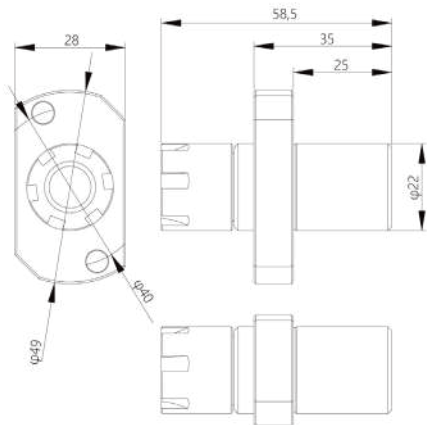
Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	STAR Code
10.0	34	1 : 1	6000rpm	ER16	66151	66151

Radial 6 spindles toolholders



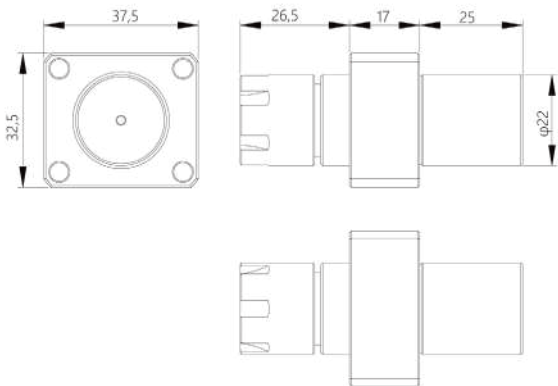
Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	STAR Code
10.0/7.0	34	1 : 1	6000rpm	ER16/ER11	67161	67161/OM155

Static drilling toolholders



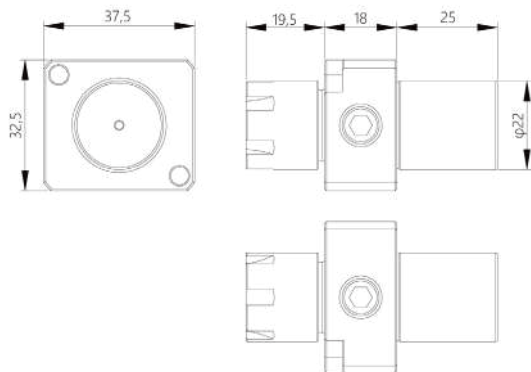
Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	STAR Code
10.0	22	–	–	ER16	54121-01	54121-01

Static drilling toolholders



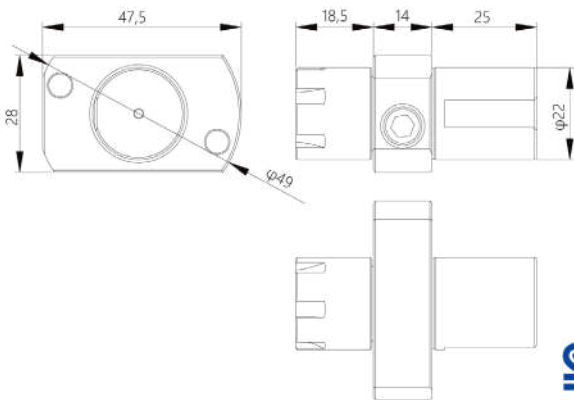
Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	STAR Code
10.0	22	–	–	ER16	OR122	OR122

Static drilling toolholders (Internal coolant)



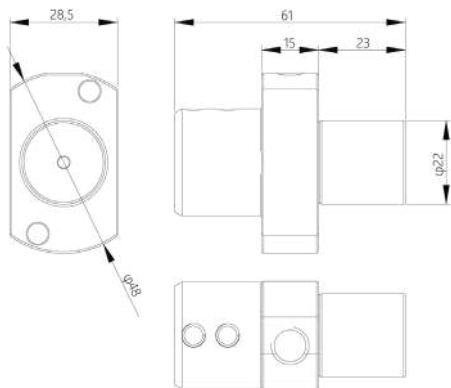
Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	STAR Code
10.0	22	–	–	ER16	OR123	OR123

Static drilling toolholders (Internal coolant)



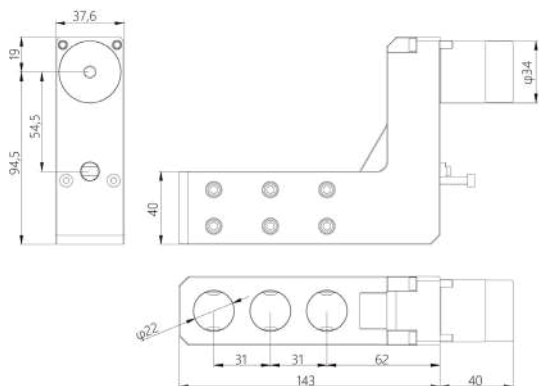
Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	STAR Code
10.0	22	–	–	ER16	67127	67127

Static drilling toolholders (Internal coolant)

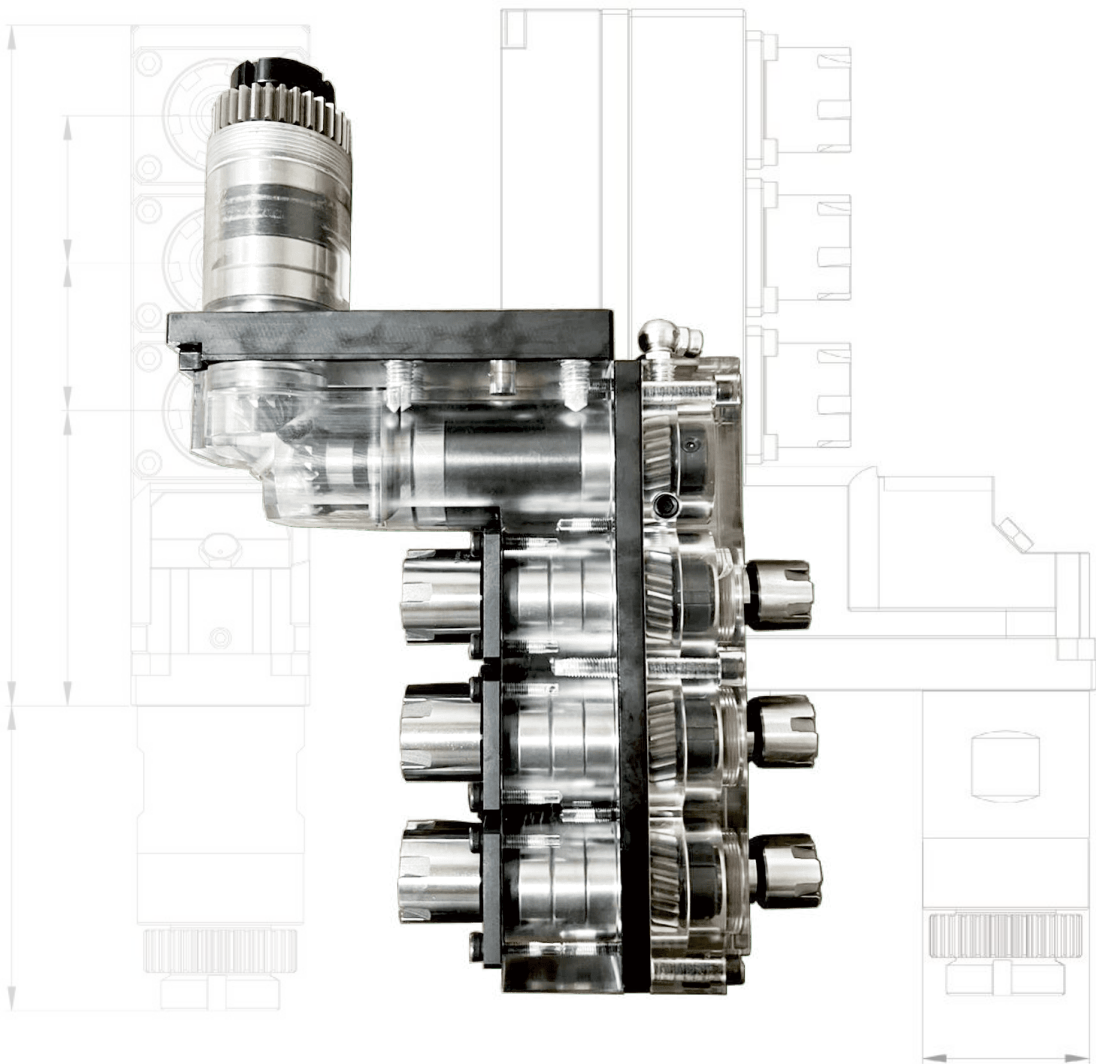


Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	STAR Code
6/8/10/12/16	22	–	–	–	B2E22	B2E22

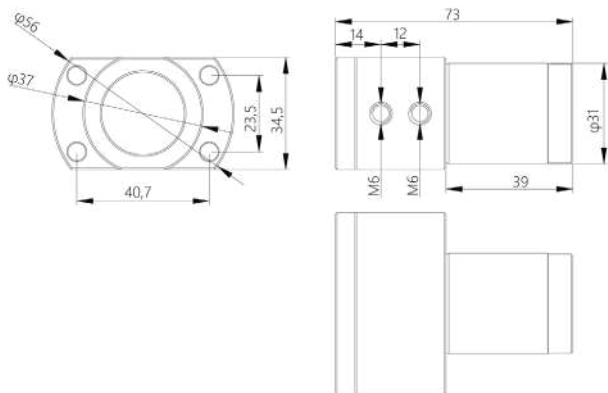
Static 3 toolholders



Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	STAR Code
22	34	–	–	–	STAR34322	STAR34322



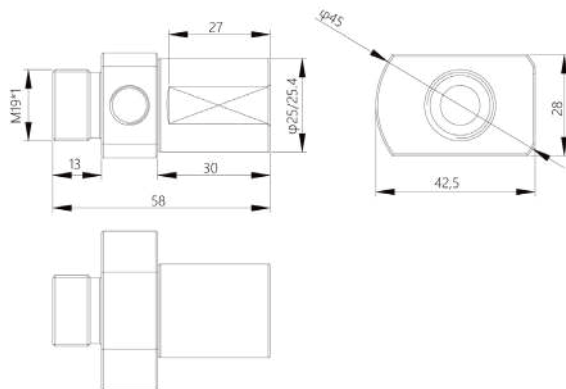
Sleeves



CITIZEN

Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	CITIZEN Code
25. 4	31	–	–	–	SAU825	SAU825

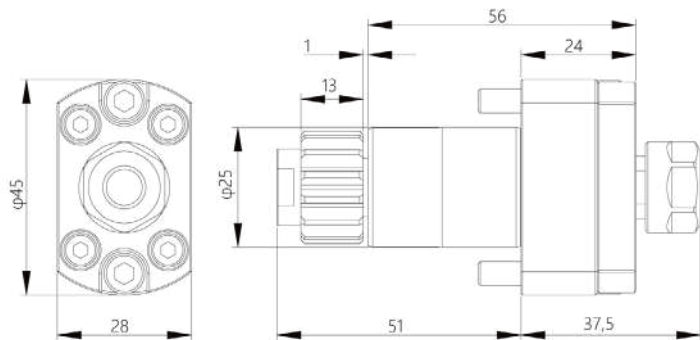
Static drilling toolholders (Internal coolant)



CITIZEN

Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	CITIZEN Code
19. 05	25/25. 4	–	–	–	GDE1025/GDE10254	–

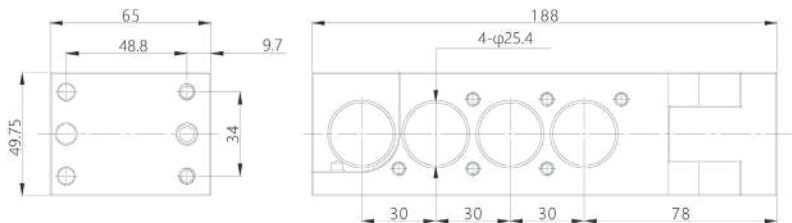
Axial toolholders



CITIZEN

Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	CITIZEN Code
7. 0	25	1 : 1	10000rpm	ER11	MSC507	MSC507

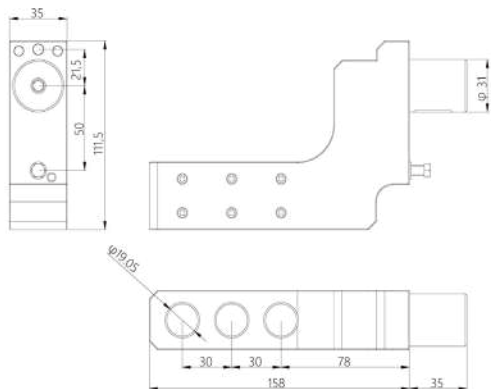
Static 4 holes drilling toolholders



CITIZEN

Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	CITIZEN Code
25. 4	–	–	–	–	GDF1801	GDF1801

Static 3 holes drilling toolholders



CITIZEN

Max tool shank	Shank diameter	Ratio	Maximum speed	Collet	Model	CITIZEN Code
19. 05	31	–	–	–	GDF1207	GDF1207



Power Angle Heads

- ◆ BT/HSK/PSC interface
- ◆ The angle head direction can be adjusted 360 degrees.



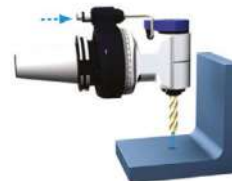
Ideal for Micromachining in narrow spaces



deal for milling, drilling, tapping at $\pm 90^\circ$



Long Series for machining at deep position



With coolant input from positioning Pin and output through the tool



Offset series for machining in narrow spaces with coolant input directly from machine spindle and output through the tool at 70 BAR



Adjustable output at $\pm 90^\circ$ for tilt drilling, milling and tapping



BT



ISO



HSK



KM



PCS



A choice of Modular Interchangeable Arrestor Pins



The Same Machine With Many Heads

Standard



Extended



Dual Heads



Angel Adjustable



Jet Spindles

Advantage

- ◆ The general spindle speed is only 6000-15000rpm, and the tool can be pushed up to 55000rpm through 15-70bar coolant pressure, saving 70% of cycle time
- ◆ Various interfaces can choose BT/HSK/ER/Capto/straight
- ◆ Tool can be changed by ATC
- ◆ Display processing tool speed with chip transmission
- ◆ Excellent run out within 0.003mm



Applications



Drilling



Thread Milling



Milling



Engraving



Chamfering



Grinding

Zero Nuts

Product Features:

- ♦ Correction of runout errors and misalignment
- ♦ For metallic sealed and normal collets as per DIN 6499 / ISO 15488

Product Advantages:

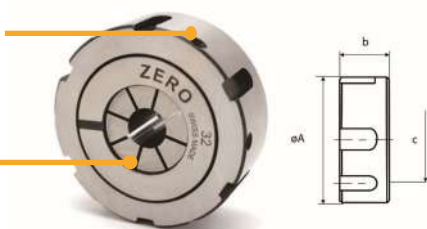
- ♦ Compatible with all tool holders for collets as per DIN 6499 / ISO 15488
- ♦ Easy to set
- ♦ Maximum process capability due to correction of runout
- ♦ Extended tool life due to perfect runout
- ♦ Highest quality of bores due to correction of runout



Specification Sheet

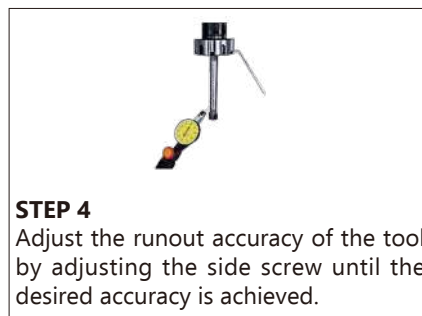
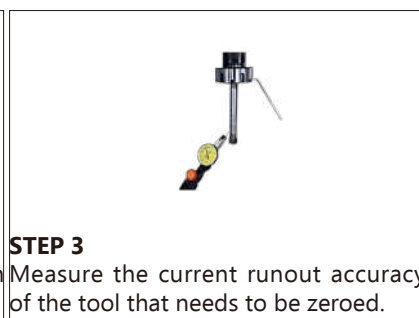
A total of 6 oil circuit screw holes

With AA grade collet

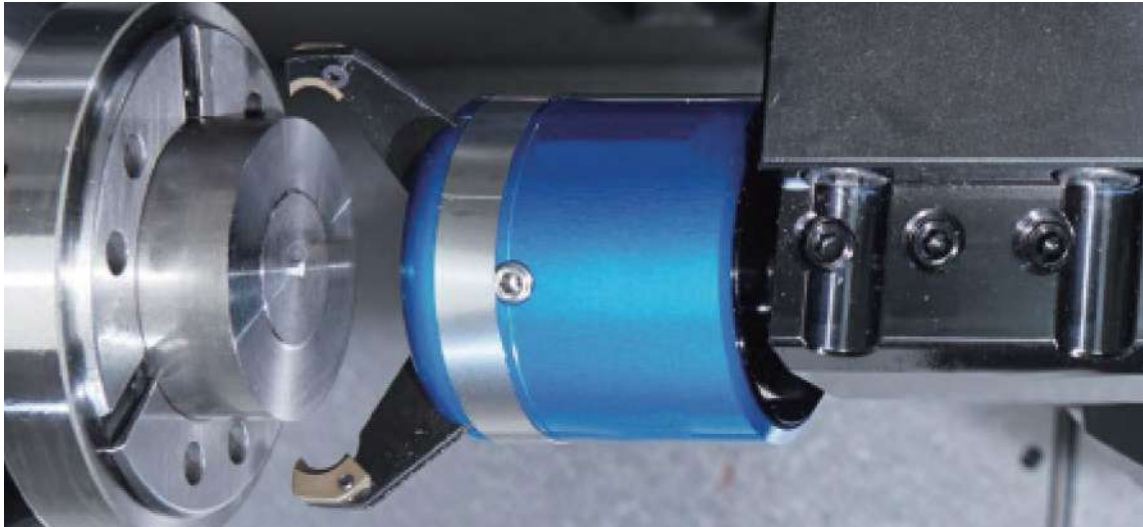


Part Number	Tool Max	ϕ a	b	Hex Key
ER 16	10 mm	34 mm	20 mm	2.0 mm
ER 20	13 mm	42 mm	20 mm	2.0 mm
ER 25	16 mm	50 mm	22 mm	2.5 mm
ER 32	20 mm	63 mm	23 mm	2.5 mm
ER 40	30 mm	79 mm	28 mm	3.0 mm

Steps for usage

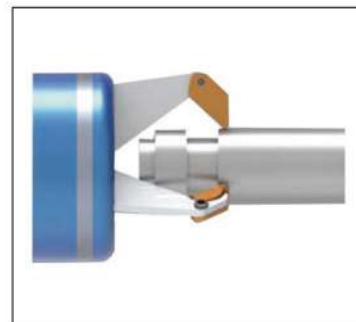
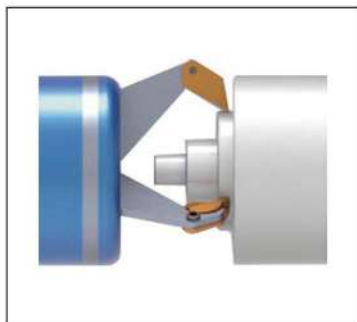
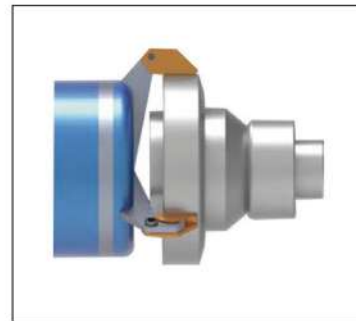
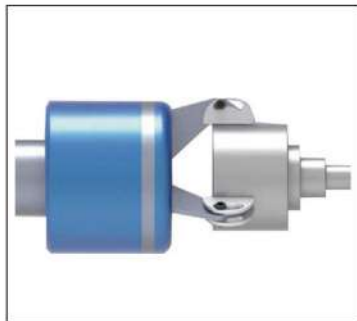


Grippers



Advantage

- ◆ Stationed at the turret
- ◆ Driven by coolant
- ◆ Controlled by the NC-PROGRAMME





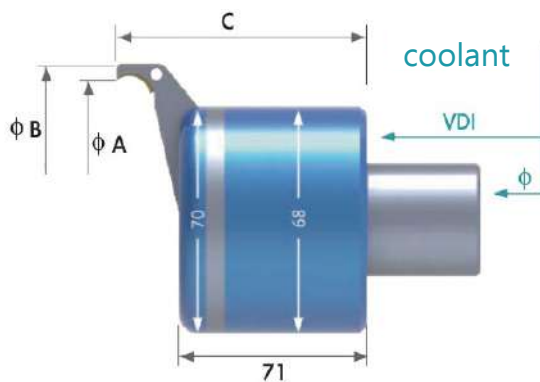
Standard
 $\phi 2$: 60 mm
 $\phi 3$: 80 mm
 $\phi 7$: 105 mm



Small
 $\phi 2$: 52 mm

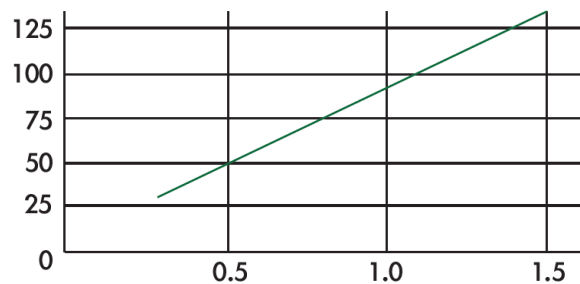


Mini
 $\phi 0$: 38 mm



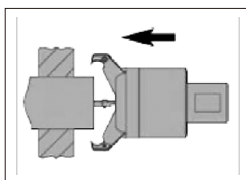
	ϕA	ϕB	C
2 - 60 mm	64 mm	83 mm	89 mm
3 - 80 mm	83 mm	102 mm	94 mm
7 - 105 mm (Option)	110 mm	129 mm	108 mm

Clamping(KG)

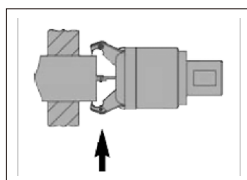


Water pressure(Bar)

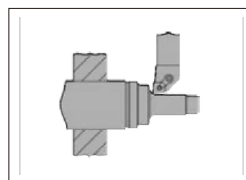
Steps for usage



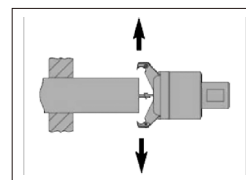
STEP 1
Grippers approach bar to be pulled.



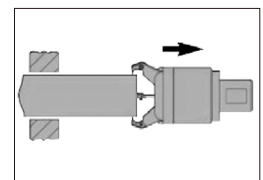
STEP 2
Coolant ON for Grippers to clamp.



STEP 3
Chuck unclamp, turret moves back along Z-axis and stops exactly at programmed position.



STEP 4
Chuck clamp; coolant OFF. Grippers unclamp; turret retracts.



STEP 5
Being machining new par.

10 seconds quick change collet chucks

Advantage

- ◆ Exceptional Grip Force and Rigidity
- ◆ More Aggressive Chip Removal Rates
- ◆ Faster Cycle Times
- ◆ Increased Throughput
- ◆ Higher Profits



Collet Changing Tools

Pressing and releasing the trigger, collet changes take only few seconds.



TYPE	32	42	52	65	80	100	125	160
------	----	----	----	----	----	-----	-----	-----

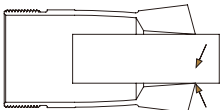
Comparison

Collet Chucks



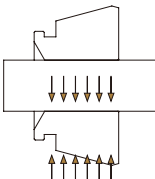
Traditional spring type collet

Longer setup time
Only single point gripping



Quick Change collet

Collet changes less than 10 seconds
Better parrallel workpiece gripping



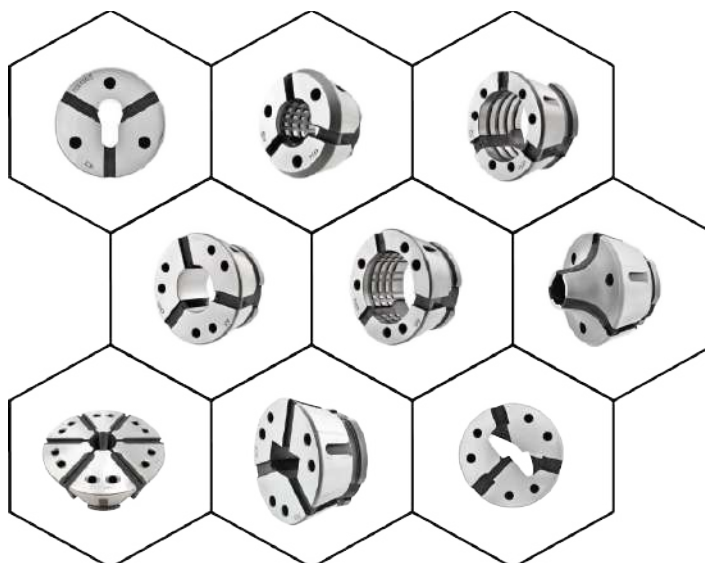
Mill/5 Axis Machining Center Chucks



Less than 10 seconds



Collets



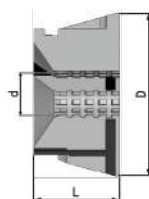
Advantage

- ◆ Parallel workpiece gripping
- ◆ Vulcanized rubber creates great gripping range
- ◆ Reduction of vibrations
- ◆ Less tool wear
- ◆ Less wear on the collet
- ◆ Collet changes less than 10 seconds
- ◆ Heat treated up to HRC60 with vulcanized rubber, which performs best rigidity and life time
- ◆ Capable of custom designed collets

Collet Apifications

A=Bore

L	smooth
R	with radial grooves
S	with radial and longitudinal grooves
W	emergency collet



Type	Ref.	L	D	d	A	d	A	d	A
32	32L	44	57,7	4-32	L	7-27	L	7-22	L
	32R	44	57,7	8-32	R	8-27	R	8-22	R
	32S	44	57,7	11-32	S				
	32EM	44	57,7	4-32	W				

Type	Ref.	L	Ref.	L	D	d	A	d	A
42	42L	42	42BL	47	79,3	4-42	L	7-36	L
	42R	42	42BR	47	79,3	8-42	R	8-36	R
	42S	42	42BS	47	79,3	11-42	S		
	42EM	42			79,3	4-42	W		

Type	d	A
42	7-30	L
	8-30	R

Dimensions in mm
Capable of custom designed collets

Type	Ref.	L	D	d	A	d	A	d	A
52	52L	46	79,3	4-52	L	7-45	L	7-36	L
	52R	46	79,3	8-52	R	8-45	R	8-36	R
	52S	46	79,3	11-52	S				
	52EM	46	79,3	4-52	W				

Type	Ref.	L	Ref.	L	D	d	A	d	A
65	65L	53	65BL	58	99,5	4-65	L	7-56	L
	65R	53	65BR	58	99,5	8-65	R	8-56	R
	65S	53	65BS	58	99,5	11-65	S		
	65EM	53			99,5	4-65	W		

Type	d	A
65	7-46	L
	8-46	R

Type	Ref.	L	D	d	A	d	A	d	A
80	80L	53	114,5	4-80	L	7-68	L	7-56	L
	80R	53	114,5	8-80	R	8-68	R	8-56	R
	80S	53	114,5	11-80	S				
	80EM	53	114,5	4-80	W				

Patented Unichange



- ♦ Universal: suitable for all ER collet.
- ♦ Easy to remove with the one-hand wrench.
- ♦ Presetting inside or out of the machine.
- ♦ All UNI-CHANGE adapters are suitable for ER toolholder with external and internal coolant supply



Stainless Tubes



Applications on Matel
[Water 、 Oil 、 Air Blow]
High Pressure 100Bar

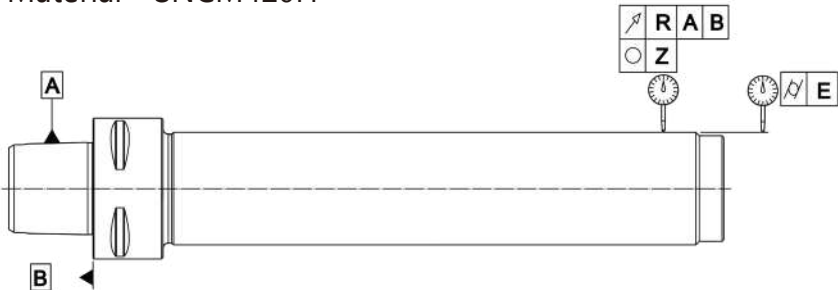


Spindle Test Bars

BT/BBT/HSK/SK/CAPTO/ER



Material : SNCM420H



Taper Tolerance	Roundness	Surface roughness	Yaw accuracy	Cylindricity
AT2	1µm	Ra < 0.15µm	3µm	5µm

100% Accuracy Guarantee

Every test bars is checked by high-precision measuring machines , and a factory inspection report will be included in the product





Advantage

1. The most ideal tool for measuring the main precision of the machine
2. Regularly check the accuracy of the spindle to maximize the processing performance of the tool holder Yield
3. Ensure machining accuracy and prolong tool life
4. Improve tool life, tool holder performance and productivity

ER Sealed Collets

High-pressure 100Bar high temperature resistance



ER11	MM	3	3.5	4	4.5	5	5.5	6	6.5	-	-	-
	INCHES	3/32	1/8	5/32	7/32	1/4	-	-	-	-	-	-

ER16	MM	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
		8.5	9	9.5	10	-	-	-	-	-	-	-
	INCHES	3/32	1/8	5/32	7/32	1/4	9/32	5/16	11/32	3/8	13/32	-

ER20	MM	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5
		9	9.5	10	10.5	11	11.5	12	12.5	13	-	-	
	INCHES	1/8	5/32	7/32	1/4	9/32	5/16	11/32	3/8	13/32	7/16	15/32	1/2

ER25	MM	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5
		9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5
		15	15.5	16	-	-	-	-	-	-	-	-	-
	INCHES	7/32	1/4	9/32	5/16	11/32	3/8	13/32	7/16	15/32	1/2	17/32	9/16
		19/32	5/8	-	-	-	-	-	-	-	-	-	-

ER32	MM	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5
		9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5
		15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	
	INCHES	7/32	1/4	9/32	5/16	11/32	3/8	13/32	7/16	15/32	1/2	17/32	9/16
		19/32	5/8	21/32	11/16	23/32	3/4	-	-	-	-	-	-

ER40	MM	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5
		9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5
		15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5
		21	21.5	22	22.5	23	23.5	24	24.5	25	25.5	26	-
	INCHES	7/32	1/4	9/32	5/16	11/32	3/8	13/32	7/16	15/32	1/2	17/32	9/16
		19/32	5/8	21/32	11/16	23/32	3/4	7/8	1	-	-	-	

Sleeves for boring bars



D16	Non-coolant SIZE	D16-D3	D16-D4	D16-D5	D16-D6	D16-D8	D16-D10	D16-D12	-
D20	Non-coolant SIZE	D20-D4	D20-D5	D20-D6	D20-D7	D20-D8	D20-D10	D20-D12	D20-D11
		D20-D14	D20-D16	-	-	-	-	-	-
D25	Non-coolant SIZE	D25-D14	D25-D15	D25-D16	D25-D17	D25-D18	D25-D20	D25-D22	-
	coolant SIZE	D25-D4	D25-D5	D25-D6	D25-D7	D25-D8	D25-D9	D25-D10	D25-D11
		D25-D12	D25-D13	-	-	-	-	-	-
D32	Non-coolant SIZE	D32-D4	D32-D5	D32-D6	D32-D7	D32-D8	D32-D10	D32-D12	D32-D14
		D32-D15	D32-D18	D32-D20	D32-D22	D32-D25	-	-	-
D40	Non-coolant SIZE	D40-D5	D40-D6	D40-D7	D40-D8	D40-D10	D40-D12	D40-D14	D40-D15
		D40-D16	D40-D18	D40-D20	D40-D22	D40-D25	D40-D32	-	-
	coolant SIZE	D40-D5	D40-D6	D40-D8	D40-D10	D40-D12	D40-D16	D40-D17	D40-D18
		D40-D20	D40-D25	D40-D32	-	-	-	-	-
D50	Non-coolant SIZE	D50-D8	D50-D10	D50-D12	D50-D14	D50-D16	D50-D18	D50-D20	D50-D25
		D50-D32	D50-D40	-	-	-	-	-	-
D60	Non-coolant SIZE	D60-D20	D60-D25	D60-D32	D60-D40	D60-D50	-	-	-

Slim-Fit Collet Chuck



Slim-Fit Collet Chuck



Slim-Fit Collet Chuck
(With Coolant Through)



Slim-Fit Collet Chuck



Slim-Fit Collet Chuck

Shrink Fit Chuck



Shrink Fit Chuck



Shrink Fit Chuck
(CUL Type)



Shrink Fit Chuck
(With CP Coolant Hole)



Slim-Fit Collet Chuck

Milling Chuck



Non-Pullout Milling Chuck



Multi-Lock Milling Chuck

Collet Chuck



Collet Chuck



Collet Chuck



Collet Chuck



Collet Chuck



Collet Chuck



Collet Chuck



Collet Chuck



Collet Chuck

Tapping Chuck



Expansion ER Tapper



Quick Change Tapping
Chuck



Synchronized Tapping
Holder

Face Mill Arbor



Face Mill Arbor



Face Mill Arbor



Face Mill Arbor



Face Mill Arbor
(Extension Type)



Face Mill Arbor
(Extension Type)



Face Mill Arbor
(Light Weight Type-With Two
Flat Sides)

Runout Adjustable Holder



Radial Zero Adjustable
Holder



Runout Adjustable Holder

Turning insert Application



PSC Turning Tool



HSK Turning Tool

Others



Blank



Adapter



Touch Probe Holder



Side Lock End Mill Holder



Drill Chucks



Morse Taper Adapter



Oil Hole Holder



Combi Shell End Mill
Arbor



Side Cutter Adapter



Screwed End Mill Holder

Accessories



Ceramic Fiber Brush



Diamond Brush



Assembly Device



Chip Remove



Collet Series



Pull Stud



Edge Finder



Z Axial Preset Gauge



Rotary Center

Maintenance Service



Taiwan service center, Tooling repair service
German original maintenance methods, for all brands

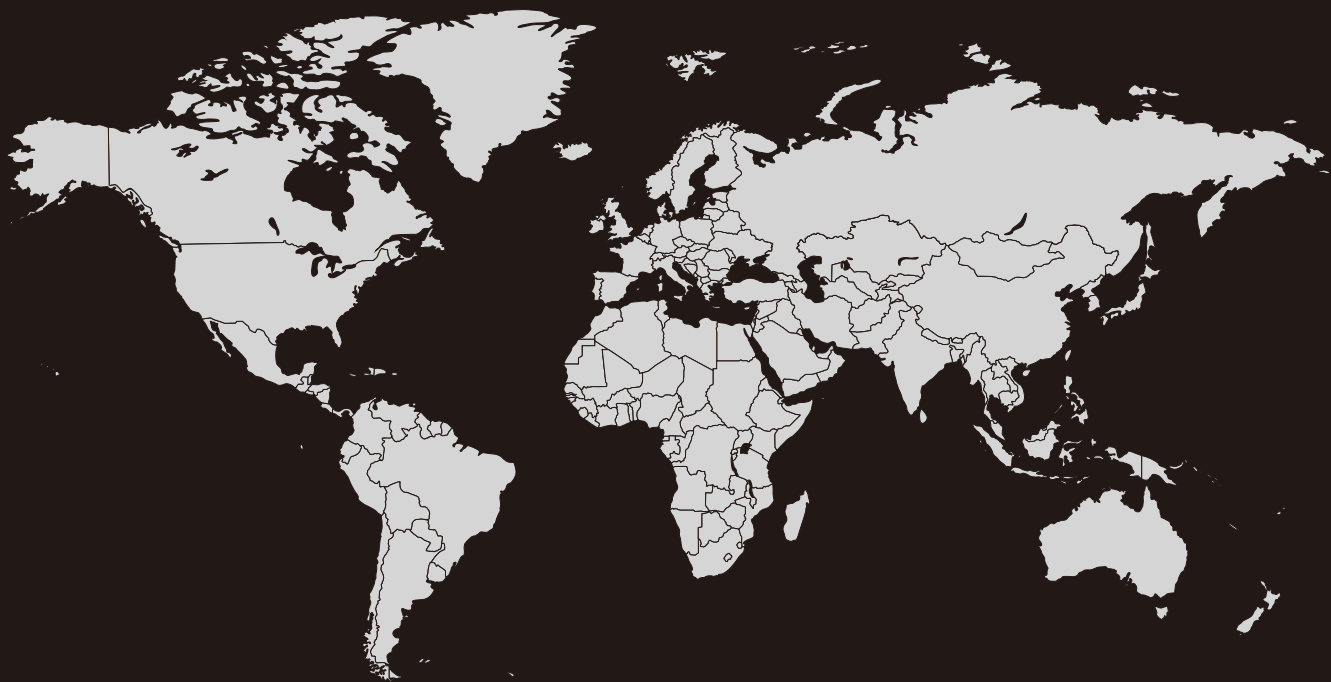


Maintenance service includes cleaning replacement of bearings, oil seals, oring, oiling, assembly, and accuracy calibration

Algra, WTO, heimatic, Eppinger, MT, Evermore, Holdwell ALPS, OMAP, Mimatic, EWS, Sauter.....all available!



MONGTECならではの生き甲斐



FaceBook



WeChat



YouTube



MONGTEC



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