



MEYERSEIKO

We do the best that you need

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- The content of catalogue start and valid from Oct 2024, it will not notice separately if any design change of Specification.
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MEYERSEIKO

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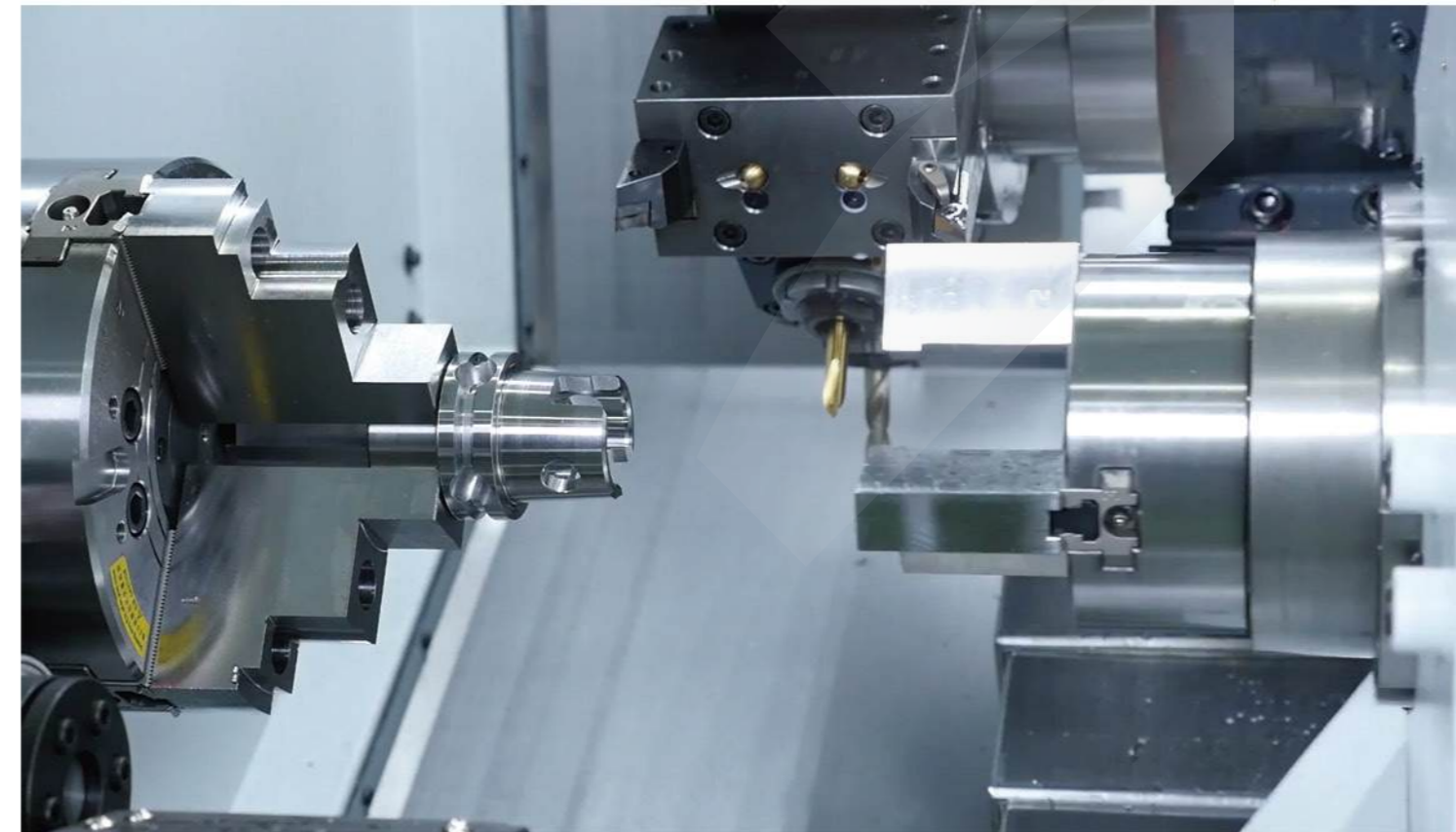


MEYER SEIKO 09-1998
12.2024/100 05-058E/B

MEYERSEIKO

Rich accumulation of OEM/ODM experience -- Made by MEYER SEIKO

YOUR FUTURE TURN MILL FROM HERE



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COMPANY PROFILE & PRODUCTS LINE-UP

Version No.:E-HIL2024-10B/T

COMPANY STRENGTH

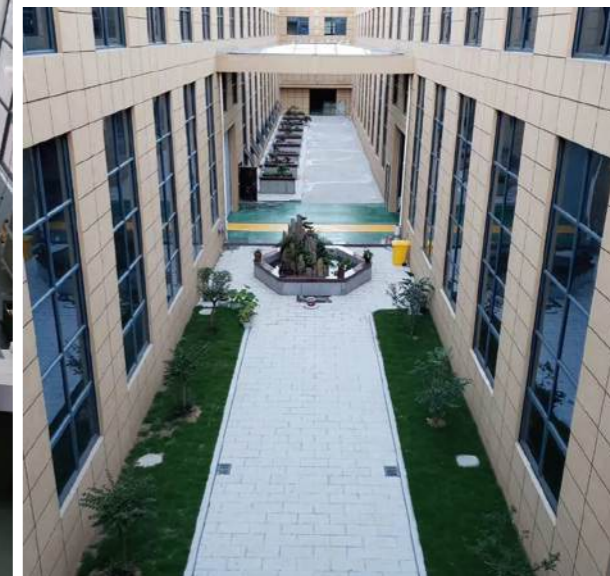
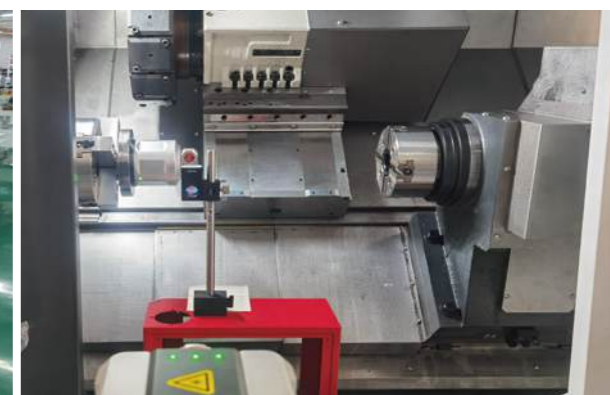
MEYER SEIKO CNC Slant Bed type Turn Mill

The various model range brought by the modular design, can quickly customize the best processing scheme for customers, and become a high-quality supplier of 360° metal cutting solutions in the minds of customers.

- Mechanical, electrical and hydraulic integrated layout, 30°/45°/60° overall inclined bed design, compact structure, high rigidity;
- The main components are cast with resin sand, which effectively improves the performance of castings;
- The castings are treated with secondary aging to further improve the stability of the machine tool;
- Through finite element structure analysis, the machine tool has excellent rigidity, heat dissipation and vibration resistance;
- The key components are finished by world-class working machine to effectively ensure the accuracy of key components;
- The key components adopt international famous brands, which greatly improves the reliability of the machine tool;
- Modular design, flexible and diverse, efficient to meet customer special requirements;
- Compact structure, small footprint, effectively save customer site space;
- Fully enclosed protection, inclined structure, smoother chip removal;
- The product specifications are complete to meet the special needs of customers in different industries.

LEADING TECHNOLOGY AND STRONG STRENGTH

UNITE AS ONE, STRIVE TO MAKE PROGRESS



MODEL AND SERIES OF MACHINE TOOL EQUIPMENT

MACHINE MODEL DESCRIPTION

1、Such as machine model: MIL50/6S-Y500

M	--- Meyer Seiko;
I	--- Inclined Bed Type CNC Lathe
L	--- Lathe Machine ;
50	--- Machine Series (50 Series: Max.Swing dia.over bed ≥ 500 mm);
/6	--- Spindle Nose A2-6, (Reflects the size of Spindle nose model);
S	--- The model with 2nd spindle/Sub-spindle;
Y	--- With Y axis;
500	--- Z Axis travel ≥ 500 mm;

2、Description with letters in the machine model number:

G	--- Gang type Tool Series
T	--- Servo Tool Turret Series;
D	--- Driven Tool Turret Series;
Y	--- Y axis with Driven Tool Turret Series;
S	--- 2nd Spindle/Sub-Spindle;
P	--- Programmable tailstock (tailstock guideway with ballscrew);

3、Description of Y-axis travel:

MIL40 series BMT40	Travel 70mm (Travel 90mm), 120mm toothed disc
MIL50 Series BMT45 (BMT55)	Travel 100mm, 160mm toothed disc
MIL60 series BMT55	Travel 150mm, 200mm toothed disc
MIL70 series BMT65	Travel 150mm (Travel 200mm), 200mm toothed disc

Note: The D and Y series of 36 /40/50/60/70 series of turning and milling composite machine tools all adopt permanent magnet synchronous spindle with high-precision toothed ring encoder.

MIL36 Series

MIL36A-G500	MIL36B-G500	MIL36A-T250	MIL36B-T250
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MIL40 Series

MIL40/5-T500	MIL40/6-T500	MIL40/5-D500	MIL40/6-D500
MIL40/5-Y500	MIL40/6-Y500		

MIL50 Series

MIL50/6-T500	MIL50/6-T800	MIL50/8-T500	MIL50/8-T800
MIL50/6S-T500	MIL50/6S-T800	MIL50/8S-T500	MIL50/8S-T800
MIL50/6-D500	MIL50/6-D800	MIL50/8-D500	MIL50/8-D500P
MIL50/6S-D500	MIL50/6S-D800	MIL50/8S-D500	MIL50/8S-D800
MIL50/6-Y500	MIL50/6-Y800	MIL50/8-Y500	MIL50/8-Y800
MIL50/6S-Y500	MIL50/6S-Y800	MIL50/8S-Y500	MIL50/8S-Y800
MIL50/6-D500P	MIL50/6-D800P	MIL50/8-D500P	MIL50/8-D800P
MIL50/6-T500P	MIL50/6-T800P	MIL50/8-T500P	MIL50/8-T800P
MIL50/6-Y500P	MIL50/6-Y800P	MIL50/8-Y500P	MIL50/8-Y800P

MIL60 Series

MIL60/8-T500	MIL60/8-D500	MIL60/8-Y500	
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MIL70 Series

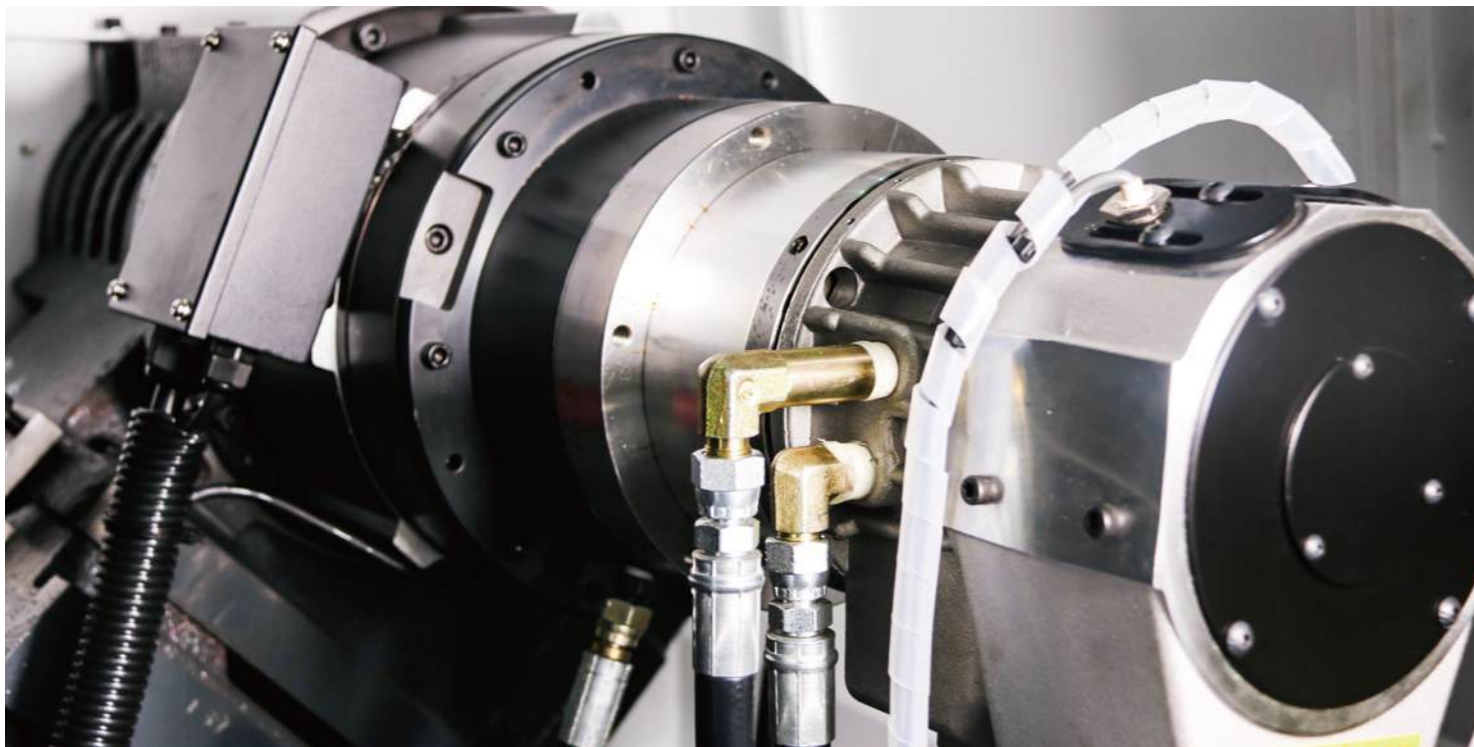
MIL70/11-T1000	MIL70/11S-D1000	MIL70/11-Y1000	MIL70/11-T1000P
MIL70/11-D1000P	MIL70/11-Y1000P	MIL70/11-T2000	MIL70/11-D2000
MIL70/11-Y2000	MIL70/11-T2000P	MIL70/11-D2000P	MIL70/11-Y2000P

TM Series

TM200			
TM06S-Y	TM06-ZY	TM06S-D	TM06-ZD

01 High Speed

Independent design of spindle, bed, saddle, tailstock and other key components, the maximum speed of the machine tool reaches 6000rpm, The rapid feedrate reaches 24m/min, more higher rapid feedrate are available as requested, which greatly improves the processing efficiency of the machine.



Spindle

- Independent design, the spindle bearing adopts high-precision rolling bearing support and is optimized by finite element structure to ensure excellent rigidity accuracy and surface roughness.
- The mounting surface of the spindle bearing and the mounting thread of the lock nut ensure the precise matching of the spindle and the spindle box through one grinding and molding, which improves the speed and stability of the spindle;
- All spindle bearings are imported P4 special bearings for machine, lubricated with permanent grease, with good accuracy retention and long life.

Maximum spindle speed ▶

MIL36 series standard speed: 4000rpm, optional speed: 6000rpm
 MIL40 series standard speed: 4000rpm, optional speed: 5000rpm
 MIL50 series standard speed: 3000rpm, optional speed: 4000rpm
 MIL60 series standard speed: 3000rpm, optional speed: 4000rpm
 MIL70 series standard speed: 1500rpm, optional speed: 3000rpm
 TM series standard speed: 4000/4500rpm, optional speed: 6000rpm

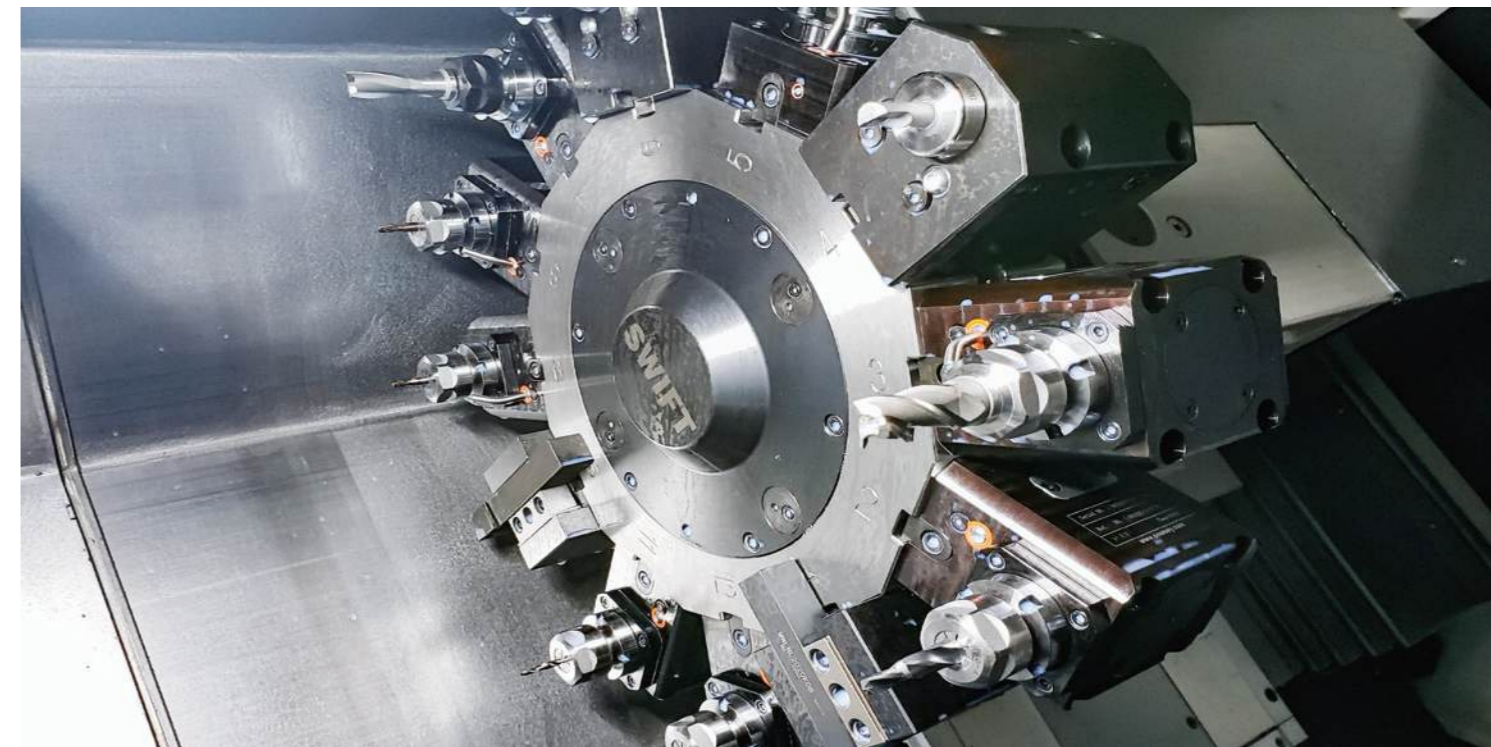


X/Z Rapid Feedrate ▶

MIL36 series X/Z Rapid Feedrate 24/24m/min, MIL40 series X/Z Rapid Feedrate 24/24m/min
 MIL50 series X/Z Rapid Feedrate 24/24m/min, MIL60 series X/Z Rapid Feedrate 24/24m/min
 MIL70 series X/Z Rapid Feedrate 20/20m/min, TM Series X/Z Rapid feedrate 20/20m/min

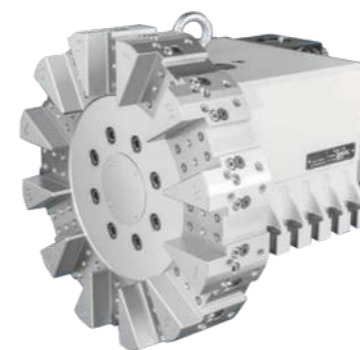
Spindle Box

- The use of thermal symmetry design, combined with a wide range of heat dissipation structure, greatly reduces the amount of deformation caused by machine heating, and improves accuracy;
- The spindle adopts permanent magnet synchronous direct drive to ensure constant torque output, and the stator and rotor ensure constant temperature through oil cooling, which can ensure high precision, high rigidity, high torque, high finish, high spindle positioning accuracy and low noise.



Turret

- T** This turret is a new type of tool holder developed by servo motor indexing to improve product reliability, lock and unlock by oil pressure, and precise positioning with end toothed discs, which can realize two-way indexing and arbitrary tool selection nearby. It has high positioning accuracy, compact structure, fast indexing speed, and can withstand large cutting force;
- D** This turret uses servo motor to drive the cutterhead rotation, two-way arbitrary fast tool change function, oil pressure locking, high-precision three-piece tooth positioning, motor built-in structure, with compact structure, accurate positioning, high strength to withstand large cutting force characteristics;
- Y** The Y-axis turret adopts the box structure and uses servo motor, which is directly connected by belt screw transmission and alpha reducer, so that the turret can greatly improve the processing capacity of complex workpieces and improve the machining accuracy of a number of machining engineering parts. 1. The dynamic cutterhead index adopts servo turret; 2. Forward and reverse cutting is possible; 3. Two-way nearby tool change, fast speed and high efficiency; 4. High positioning accuracy and repeatability; 5. High rigidity, stability and reliability.



T



D



Y

02 High Precision

The spindle adopts high-precision encoder, the highest accuracy of spindle positioning can reach 3 arcseconds, XYZA adopts C3 grade screw, The lead screw has a pre-stretched structure.

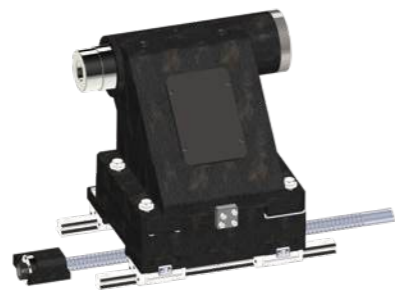


Tailstock

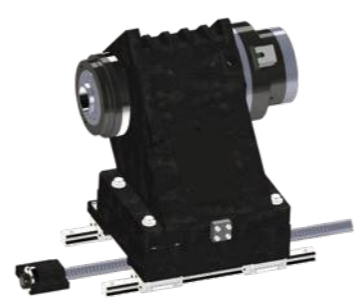
Due to the modular design, Hydraulic tailstock, Programmable tailstock (P), and Sub Spindle (S) can be selected according to customer requirements.



Hydraulic Tailstock (Hard rail)



Programmable tailstock (Linear rail)



Sub Spindle (Linear rail)

Scraping

The surface is carefully scraped, and the spindle table, turret, tailstock, and ball structure and base foundation are carefully scraped to achieve maximum assembly accuracy, mechanism rigidity and load balancing.



Single Nut

It adopts single nuts with the latest technology, high-speed silent screw, no backlash, high precision and fast speed.



03 High Stability

The assembly process of key components is subdivided and quantitatively managed, and each process has strict quality control to ensure the high stability of the output machine tool.

Spindle torque test

Permanent magnet synchronous spindle constant torque output, test whether its low-speed torque value is stable.



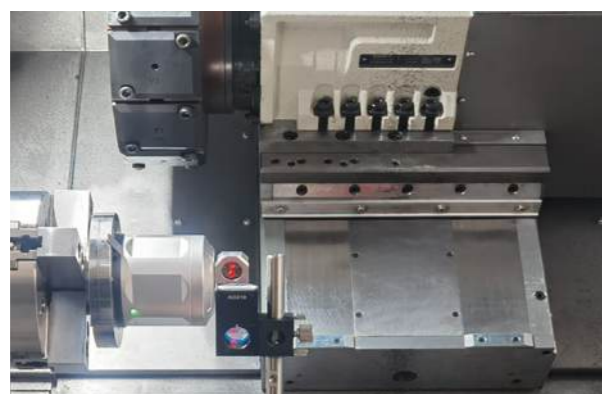
Torque wrench locking process standard

The important mating face locking screws are all locked according to the process standard using torsion wrenches to ensure the stability of the connection



Machine tool laser interferometer to detect various accuracy

The mechanical error is detected by the laser interferometer and compensated, so that the final accuracy of the machine tool is higher, and the machined parts are more stable.



04 User-friendly design

Elaborate design, continuous optimization, good operability, convenient adjustment and maintenance, good protection level.

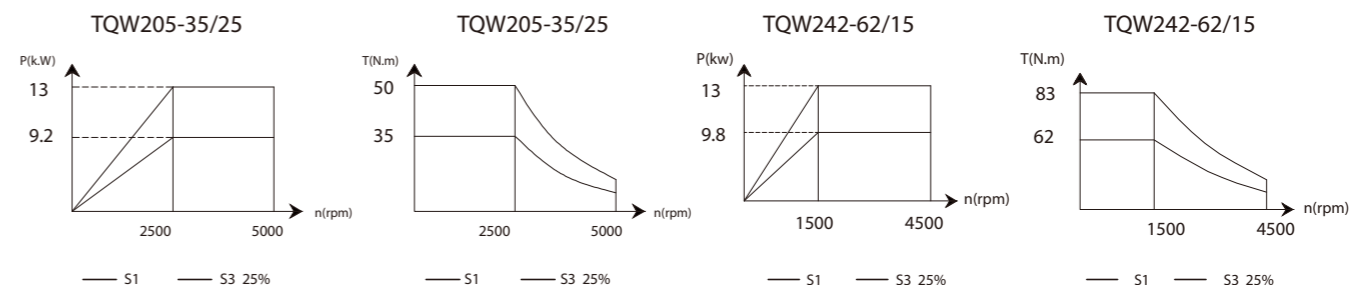


- External sliding door structure design: no iron filings, easy to clean;
- Rotatable operation panel: can be rotated to the best viewing angle position to make the operation smoother;
- Front pressure gauge and Adjusting handle: easy to read and adjust;
- Front headstock access window: maintenance and repair without obstacles;
- Stainless steel brushed plate prevents bumping by the workpiece and keeps the appearance of the machine perfect for a long time.

36 SERIES INTRODUCTION

Product features

- The main components of the machine tool are made of high-quality resin sand molding, high-strength and high-quality cast iron, with a perfect heat treatment process, eliminating residual stress and arranging sufficient stiffeners to ensure that the whole machine has sufficient strength, rigidity and high stability, all of which have been processed by Three-dimensional finite element method (FEM);
- The spindle adopts permanent magnet synchronous electric spindle direct drive, its advantages are sensitive drive, stable output torque, high finish, fast positioning and high speed,
- Low noise and other characteristics. The base adopts double-layer isolation technology to prevent high-pressure water leakage;
- The machine tool adopts modular design, which can quickly realize the automation device to meet the needs of customers;
- Withdrawable coolant tank for easy chip sweeping;
- Wide range of options: such as feeders, parts catcher, tool setter, automated truss robot;



Item	Parameter	unit	MIL36A-G500	MIL36B-G500	MIL36A-T250	MIL36B-T250
Capacity	Max.Swing dia.over bed	mm	φ 410	φ 450	φ 410	φ 450
	Height from carriage to spindle center	mm	80	111	80	111
Spindle	Spindle through-hole dia.	mm	φ 45	φ 56	φ 45	φ 56
	Spindle model	/	A ₂ -5	A ₂ -5	A ₂ -5	A ₂ -5
	Collet/Chuck size	inch	Collet 46mm	Chuck 6 inch	Collet 46mm	Chuck 6 inch
	Max. spindle speed	rpm	5000(8000)	4500	5000(8000)	4500
	Max.bar can pass	mm	φ 36	φ 46	φ 36	φ 46
	Spindle motor power	KW	92	9.8	92	9.8
	Spindle Torque	N.m	35	62	35	62
X/Z Axis	X/Z axis Linear rail type	/	Ball type	Ball type	Ball type	Ball type
	X Axis travel	mm	500	500	250	250
	Z Axis travel	mm	350	350	250	250
	X/Z Axis feed motor torque	Nm	8.4/8.4	8.4/8.4	8.4/8.4	8.4/8.4
	X/Z Axis Linear rail width	mm	30/30	30/30	30/30	30/30
	X/Z Axis ballscrew dia./pitch	mm	φ 32x10/ φ 32x10	φ 32x10/ φ 32x10	φ 32x10/ φ 32x10	φ 32x10/ φ 32x10
	X/Z Axis rapid feedrate	m/min	24/24	24/24	24/24	24/24
	X/Z Axis Positioning Accuracy	mm	±0.006/300	±0.006/300	±0.006/300	±0.006/300
	X/Z Axis Re-Positioning Accuracy	mm	±0.003	±0.003	±0.003	±0.003
Tool	Turret type	/	Gang Type	Gang Type	Tool Turret	Tool Turret
	Tool Station Capacity	Positions	5	5	8	8
Turret	Size of OD Cutter	mm	20x20	20x20	20x20	20x20
	Max.Dia. of Boring Cutter	mm	φ25	φ25	φ25	φ25
Others	Overall Dimensions (L x W x H)	mm	1805x1400x2000			
	Weight	kg	2200	2300	2200	2300
	CNC Controller	-	KND (FANUC/Siemens/SYNTEC/HNC Opt.)			

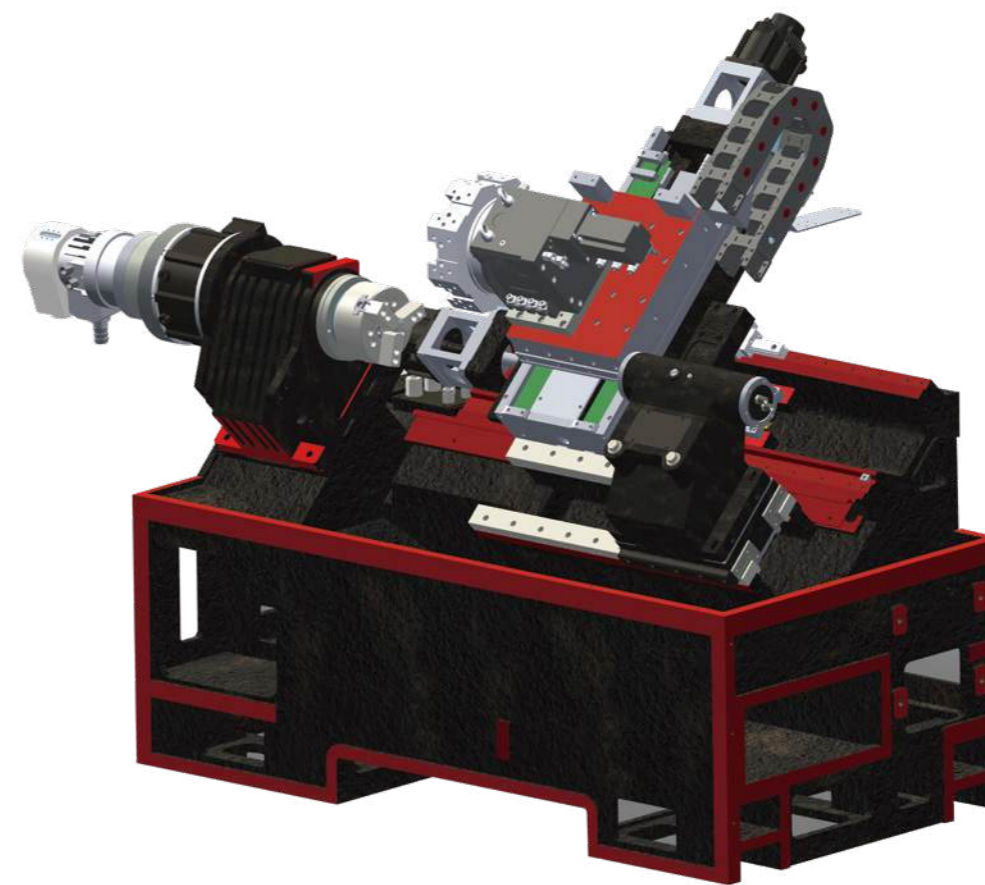


40 SERIES INTRODUCTION

40 SERIES 500

Product Features

- 45° overall inclined bed design, high rigidity, smoother chip removal;
- Finite element structure analysis, reasonable layout of casting ribs, good force effect;
- X/Y/Z axis lead screws are all pre-stretched structures, which can reduce the influence of temperature rise on the accuracy of the lead screw during processing, and add oil seals to protect the screw bearing at the installation on both sides of the lead screw, and silent ball screws;
- The tailstock adopts straight steel guide rail, strong heavy-duty rigidity, upper and lower layered structure, and a micro-adjustment device between the upper and lower layers, which is convenient for the tailstock top swing center to be fine-tuned in the X-axis direction, and the standard live center structure tailstock;
- MEYER SEIKO independently designed integrated permanent magnet synchronous headstock box, low noise, high precision, long life, high finish, constant torque output, high C-axis positioning accuracy;
- Wide range of options: such as feeders, parts catcher, large hollow chucks, enlarged spindle through-holes, tool setting instruments, automated truss robot;
- The machine tool adopts modular design, and selects different functional equipment according to different customer product requirements, which can quickly realize the automation device and meet the needs of customers;



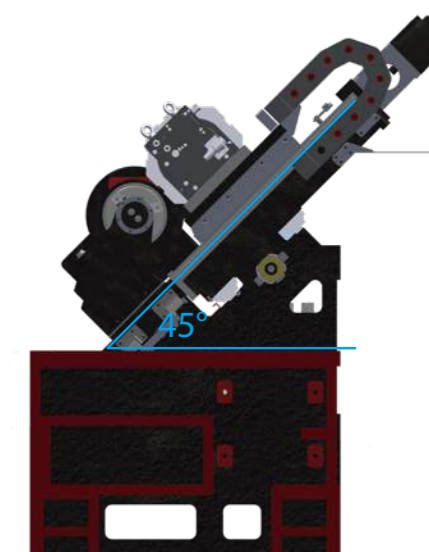
Rolling rails

High-precision linear rolling guide rails increase the speed of movement and greatly reduce non-cutting time. The imported ball guide rail is adopted, which has high positioning accuracy and less wear, which can maintain accuracy for a long time, fully improve production efficiency, and ensure its processing stability.



45° integral inclined bed design

High-speed silent ball screw, improve the accuracy of the machine tool, ensure its processing stability, high positioning accuracy, less wear can maintain accuracy for a long time.

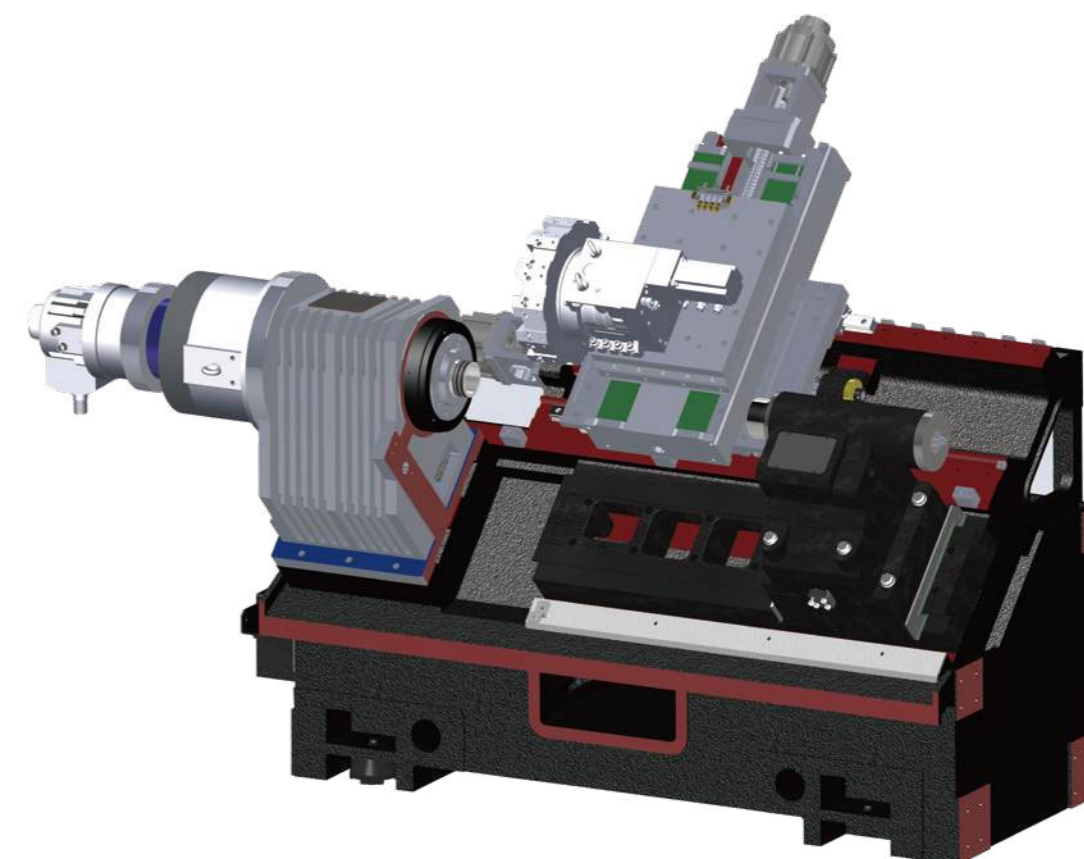


50 SERIES INTRODUCTION

50 SERIES 500

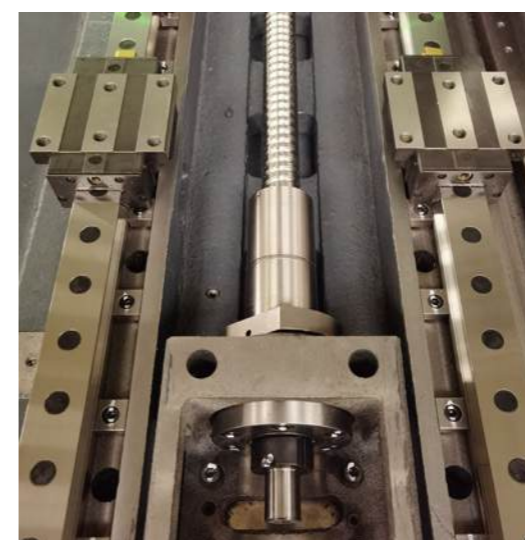
Product Features

- 45° overall inclined bed design, high rigidity, smoother chip removal;
- Finite element structure analysis, reasonable layout of casting ribs, good force effect;
- X/Y/Z/A axis lead screws are all pre-stretched structures, which can reduce the influence of temperature rise on the accuracy of the lead screw during processing, and add oil seals to protect the screw bearing at the installation on both sides of the lead screw, and silent ball screws;
- The tailstock adopts V Type guide rail, strong heavy-duty rigidity, upper and lower layered structure, and a micro-adjustment device between the upper and lower layers, which is convenient for the tailstock top swing center to be fine-tuned in the X-axis direction, and the standard live center structure tailstock;
- MEYER SEIKO independently designed integrated permanent magnet synchronous headstock box, low noise, high precision, long life, high finish, constant torque output, high C-axis positioning accuracy;
- Wide range of options: such as feeders, parts catcher, large hollow chucks, enlarged spindle through-holes, tool setting instruments, Programmable tailstock, The second spindle can be docked at high speed, automated truss robot;
- The machine tool adopts modular design, and selects different functional equipment according to different customer product requirements, which can quickly realize the automation device and meet the needs of customers;



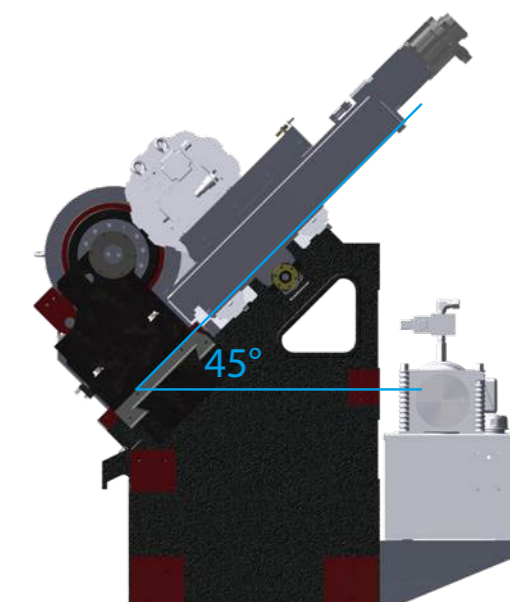
Rolling rails

High-precision linear rolling guide rails increase the speed of movement and greatly reduce non-cutting time. The imported ball guide rail is adopted, which has high positioning accuracy and less wear, which can maintain accuracy for a long time, fully improve production efficiency, and ensure its processing stability.



45° integral inclined bed design

High-speed silent ball screw, improve the accuracy of the machine tool, ensure its processing stability, high positioning accuracy, less wear can maintain accuracy for a long time.



Item		unit	MIL50/6-T500	MIL50/6S-T500	MIL50/6-D500	MIL50/6S-D500	MIL50/6-Y500	MIL50/6S-Y500	MIL50/6-D500P	
Processing Range	Max.Swing dia. over bed	mm	570	570	570	620	620	620	570	
	Max.Cutting dia.	mm	480	480	398	344	434	344	398	
	Max.cutting length	mm	500	500	466	464.5	464.5	464.5	466	
	Max.bar dia. can pass	mm	52	52	52	52	52	52	52	
Spindle	Max.Spindle Speed	rpm	4000	4000	4000	4000	4000	4000	4000	
	Spindle Nose Model	ISO	A ₂ -6	A ₂ -6	A ₂ -6	A ₂ -6	A ₂ -6	A ₂ -6	A ₂ -6	
	Spindle thru-hole dia.	mm	61	61	61	61	61	61	61	
	Spindle Taper	-	Metric 70	Metric 70	Metric 70	Metric 70	Metric 70	Metric 70	Metric 70	
	Height from Spd.center to floor	mm	1032.5	1032.5	1032.5	1057.5	1057.5	1057.5	1032.5	
Sub-Spindle	Max. Sub-Spindle Speed	rpm	/	2940	/	2940	/	2940	/	
	Sub-Spindle Nose End Model	ISO	/	A ₂ -5	/	A ₂ -5	/	A ₂ -5	/	
	Sub-Spindle Thru-Hole Dia	mm	/	56	/	56	/	56	/	
	Sub-Spindle Taper	-	/	MT 6#	/	MT 6#	/	MT 6#	/	
Hydraulic Tailstock	Tailstock Sleeve Dia	mm	100	/	100	/	100	/	/	
	Tailstock Sleeve Travel	mm	125	/	125	/	125	/	/	
	Taper of the Taper Hole	Morse	5#	/	5#	/	5#	/	/	
Servo Tailstock	Tailstock Travel	mm	/	/	/	/	/	/	550	
	Taper of the taper hole	Morse	/	/	/	/	/	/	5#	
XYZA Axis	Travel X/Z	mm	240/525	240/525	225/525	180/525	225/525	180/525	225/525	
	Travel Y/A	mm	/	A550	/	A550	Y100	100/550	A550	
	X/Z Axis Rapidfeedrate	m/min	24/24	24/24	24/24	24/24	24/24	24/24	24/24	
	Y/A Axis Rapidfeedrate	m/min	/	A 24	/	A 24	Y15	15/24	A 24	
Tool Turret	Tool Station No.	-	12	12	12	12	12	12	12	
	OD Turning Tool Holder Size	mm	25x25	25x25	20x20	20x20	20x20	25x25	20x20	
	Max.Tool Holder Dia.of Boring Cutter	mm	40	40	32	32	32	32	32	
Accuracy	Positioning	X/Z	mm	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300
		Y/A	mm	/	A ±0.006/300	/	A ±0.006/300	Y ±0.006/300	±0.006/300	A ±0.006/300
	Re-Positioning	X/Z	mm	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003
		Y/A	mm	/	A ±0.003	/	A ±0.003	Y ±0.003	±0.003	A ±0.003
Power Requested	KVA	25	45	30	50	35	60	40		
Machine Dimensions (Lx WxH)	mm	3975x2140x1910								
Machine Weight	kg	4800	5000	4800	5000	5000	5200	4800		
CNC Controller	-	KND (FANUC/Siemens/SYNTec/HNC Opt.)								
Spindle Torque	N.m	105	105	105	105	105	105	105		
Servo Motor Torque X/Z	N.m	15	15	15	15	15	15	15		
Servo Motor Torque Y	N.m	/	/	/	/	9.6	9.6	/		
Hydraulic Chuck	inch	8"								
[Hydraulic Steady Rest	mm	Opt.	/	Opt.	/	Opt.	/	/		
Automatic Chip Conveyor	-	R/L Chip Removal								

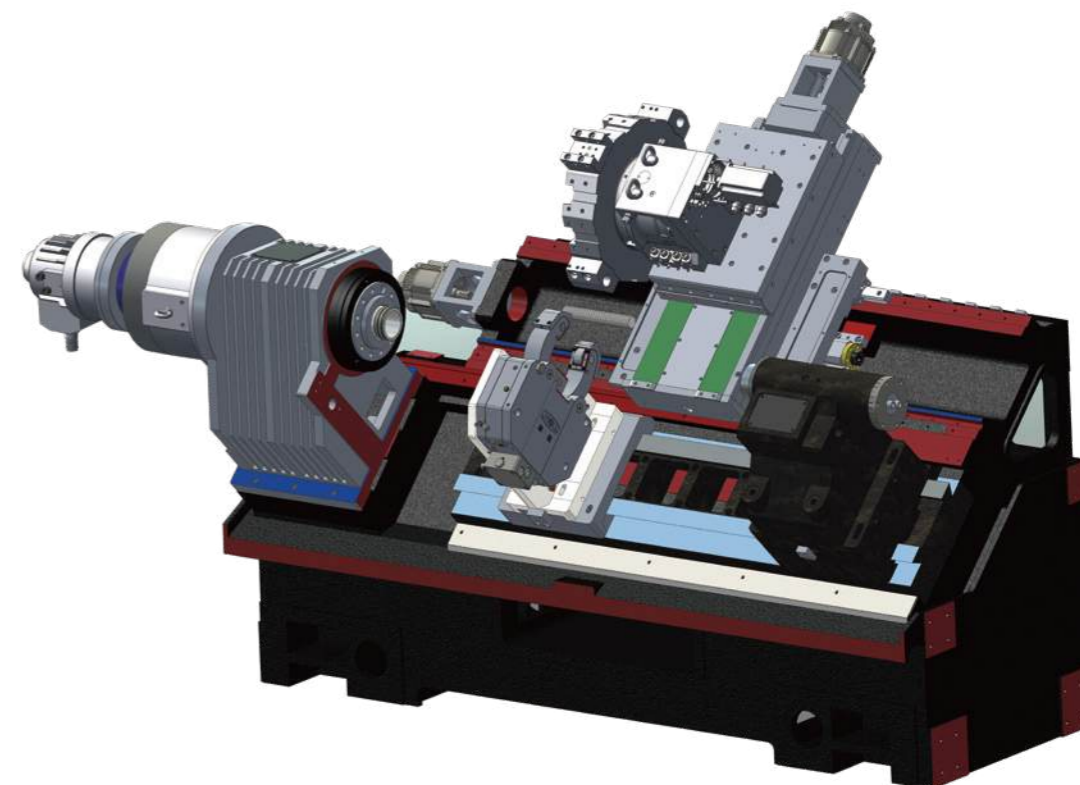
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570	620	570	570	570	620	620	620	570	570	620
480	434	480	480	398	344	434	344	398	480	434
500	464.5	485	485	451	449.5	449.5	449.5	451	485	449.5
52	52	75	75	75	75	75	75	75	75	75
4000	4000	3000	3000	3000	3000	3000	3000	3000	3000	3000
A ₂ -6	A ₂ -6	A ₂ -8	A ₂ -8	A ₂ -8	A ₂ -8	A ₂ -8	A ₂ -8	A ₂ -8	A ₂ -8	A ₂ -8
61	61	86	86	86	86	86	86	86	86	86
Metric 70	Metric 70	Metric 90	Metric 90	Metric 90	Metric 90	Metric 90	Metric 90	Metric 90	Metric 90	Metric 90
1032.5	1067.8	1032.5	1032.5	1032.5	1057.5	1057.5	1057.5	1032.5	1032.5	1057.5
/	/	/	2940	/	2940	/	2940	/	/	/
/	/	/	A ₂ -5	/	A ₂ -5	/	A ₂ -5	/	/	/
/	/	/	56	/	56	/	56	/	/	/
/	/	/	MT 6#	/	MT 6#	/	MT 6#	/	/	/
/	/	100	/	100	/	100	/	/	/	/
/	/	125	/	125	/	125	/	/	/	/
/	/	5#	/	5#	/	5#	/	/	/	/
550	550	/	/	/	/	/	/	550	550	550
5#	5#	/	/	/	/	/	/	5#	5#	5#
240/525	225/525	240/525	240/525	225/525	180/525	225/525	180/525	225/525	240/525	225/525
A550	100/550	/	A550	/	A550	Y100	100/550	A550	A550	100/550
24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24
A 24	15/24	/	A 24	/	A 24	Y 15	15/24	A 24	A 24	15/24
12	12	12	12	12	12	12	12	12	12	12
25x25	20x20	25x25	25x25	20x20	20x20	20x20	25x25	20x20	25x25	20x20
40	32	40	40	32	32	32	32	32	40	32
±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300
A ±0.006/300	±0.006/300	/	A ±0.006/300	/	A ±0.006/300	Y ±0.006/300	±0.006/300	A ±0.006/300	A ±0.006/300	±0.006/300
±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003
A ±0.003	±0.003	/	A ±0.003	/	A ±0.003	Y ±0.003	±0.003	±0.003	A ±0.003	±0.003
30	40	30	50	35	55	40	65	45	35	45
3975x2140x1910										
4800	5000	4900	5100	4900	5100	5100	5300	4900	4900	5100
KND (FANUC/Siemens/SYNTec/HNC Opt.)										
105	105	176	176	176	176	176	176	176	176	176
15	15	15	15	15	15	15	15	15	15	15
/	9.6	/	/	/	/	9.6	9.6	/	/	9.6
10"										
/	/	Opt.	/	Opt.	/	Opt.	/	/	/	/
R/L Chip Removal										

50 SERIES INTRODUCTION

50 SERIES 800

Product characteristics

- 45° overall inclined bed design, high rigidity, smoother chip removal;
- Finite element structure analysis, reasonable layout of casting ribs, good force effect;
- X/Y/Z/A axis lead screws are all pre-stretched structures, which can reduce the influence of temperature rise on the accuracy of the lead screw during processing, and add oil seals to protect the screw bearing at the installation on both sides of the lead screw, and silent ball screws;
- The tailstock adopts V Type guide rail, strong heavy-duty rigidity, upper and lower layered structure, and a micro-adjustment device between the upper and lower layers, which is convenient for the tailstock top swing center to be fine-tuned in the X-axis direction, and the standard live center structure tailstock;
- MEYER SEIKO independently designed integrated permanent magnet synchronous headstock box, low noise, high precision, long life, high finish, constant torque output, high C-axis positioning accuracy;
- Wide range of options: such as feeders, parts catcher, large hollow chucks, enlarged spindle through-holes, tool setting instruments, Programmable tailstock, The second spindle can be docked at high speed, automatic truss robot;
- The machine tool adopts modular design, and selects different functional equipment according to different customer product requirements, which can quickly realize the automation device and meet the needs of customers;



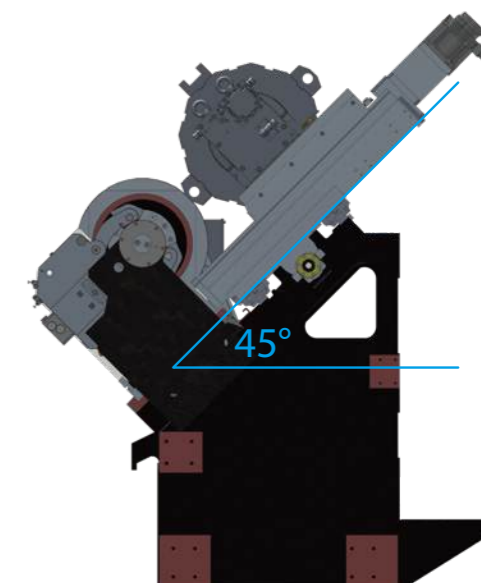
Rolling rails

High-precision linear rolling guide rails increase the speed of movement and greatly reduce non-cutting time. The imported ball guide rail is adopted, which has high positioning accuracy and less wear, which can maintain accuracy for a long time, fully improve production efficiency, and ensure its processing stability.



45° integral inclined bed design

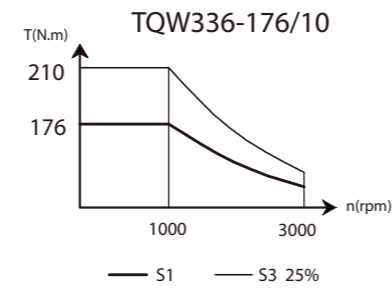
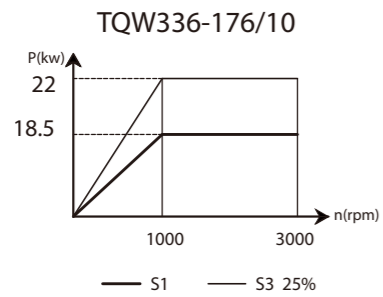
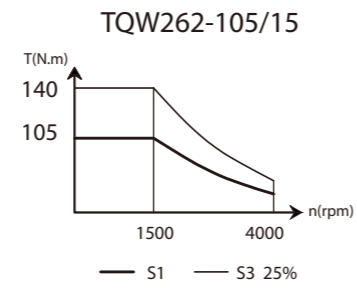
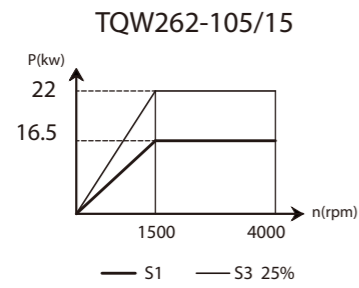
High-speed silent ball screw, improve the accuracy of the machine tool, ensure its processing stability, high positioning accuracy, less wear can maintain accuracy for a long time.



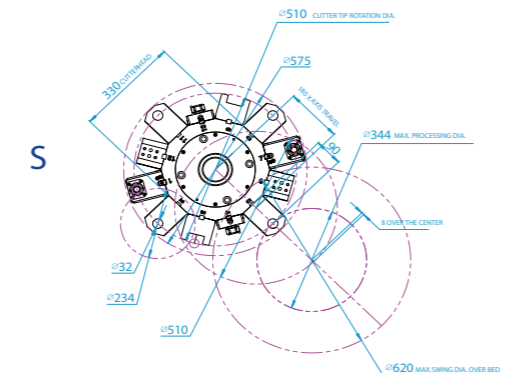
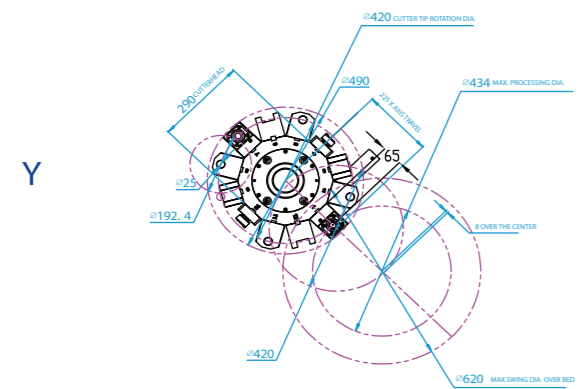
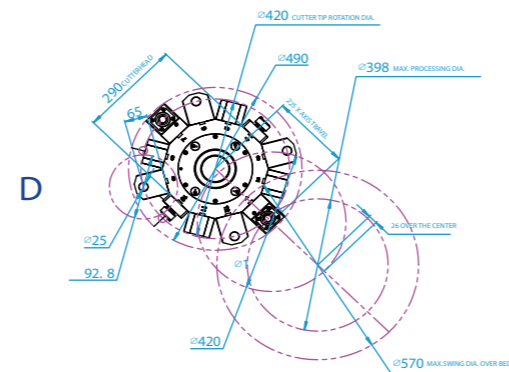
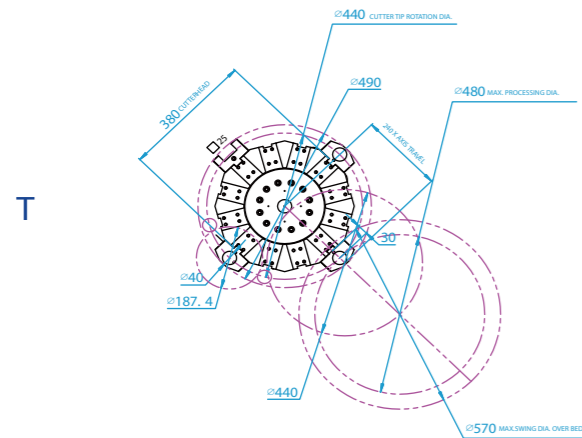
Item		unit	MIL50/6-T800	MIL50/6S-T800	MIL50/6-D800	MIL50/6S-D800	MIL50/6-Y800	MIL50/6S-Y800	MIL50/6-D800P	
Processing range	Max.Swing dia. over bed	mm	570	570	570	620	620	620	570	
	Max.Cutting dia.	mm	480	480	398	344	434	344	398	
	Max.cutting length	mm	800	800	766	764.5	764.5	764.5	766	
	Max.bar dia. can pass	mm	52	52	52	52	52	52	52	
Spindle	Max.Spindle Speed	rpm	4000	4000	4000	4000	4000	4000	4000	
	Spindle Nose Model	ISO	A ₂ -6	A ₂ -6	A ₂ -6	A ₂ -6	A ₂ -6	A ₂ -6	A ₂ -6	
	Sub-Spindle Thru-Hole Dia	mm	61	61	61	61	61	61	61	
	Spindle Taper	-	Metric 70	Metric 70	Metric 70	Metric 70	Metric 70	Metric 70	Metric 70	
	Height from Spd.Center to floor	mm	1032.5	1032.5	1032.5	1057.5	1057.5	1057.5	1032.5	
Sub-Spindle	Max. Sub-Spindle Speed	rpm	/	2940	/	2940	/	2940	/	
	Sub-Spindle Nose End Model	ISO	/	A ₂ -5	/	A ₂ -5	/	A ₂ -5	/	
	Sub-Spindle Thru-Hole Dia.	mm	/	56	/	56	/	56	/	
	Sub-Spindle Taper	-	/	MT 6#	/	MT 6#	/	MT 6#	/	
Hydraulic Tailstock	Tailstock Sleeve Dia.	mm	100	/	100	/	100	/	/	
	Tailstock Sleeve Travel	mm	125	/	125	/	125	/	/	
	Taper of the Taper Hole	Morse	5#	/	5#	/	5#	/	/	
Servo Tailstock	Tailstock Travel	mm	/	/	/	/	/	/	850	
	Taper of the taper hole	Morse	/	/	/	/	/	/	5#	
XYZA axis	X/Z Travel	mm	240/825	240/825	225/825	180/825	225/825	180/825	225/825	
	Y/A Travel	mm	/	A850	/	A850	Y100	100/850	A850	
	X/Z Rapid Feedrate	m/min	24/24	24/24	24/24	24/24	24/24	24/24	24/24	
	Y/A Rapid Feedrate	m/min	/	A 24	/	A 24	Y 15	15/24	A 24	
Tool Turret	Tool Station No.	-	12	12	12	12	12	12	12	
	OD Turning Tool Holder Size	mm	25x25	25x25	20x20	20x20	20x20	25x25	20x20	
	Max.Tool Holder Dia.of Boring Cutter	mm	40	40	32	32	32	32	32	
Accuracy	Positioning	X/Z	mm	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300
		Y/A	mm	/	A ±0.006/300	/	A ±0.006/300	Y ±0.006/300	±0.006/300	A ±0.006/300
	Accuracy	Y/A	mm	/	A ±0.006/300	/	A ±0.006/300	Y ±0.006/300	±0.006/300	A ±0.006/300
		Re-Positioning	X/Z	mm	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003
Accuracy	Accuracy	Y/A	mm	/	A ±0.003	/	A ±0.003	Y ±0.003	±0.003	A ±0.003
		Y/A	mm	/	A ±0.003	/	A ±0.003	Y ±0.003	±0.003	A ±0.003
Power Requested		KVA	25	45	30	50	35	60	40	
Machine Dimensions (Lx WxH)		mm	4355x2085x1980							
Machine Weight		kg	5300	5500	5300	5500	5500	5700	5300	
CNC Controller		-	KND (FANUC/Siemens/SYNTEC/HNC Opt.)							
Spindle Torque		N.m	105	105	105	105	105	105	105	
Servo Motor Torque X/Z		N.m	15	15	15	15	15	15	15	
Servo Motor Torque Y		N.m	/	/	/	/	9.6	9.6	/	
Hydraulic Chuck		inch	8"							
[Hydraulic Steady Rest]		mm	Opt.	/	Opt.	/	Opt.	/	/	
Automatic Chip Conveyor		-	R/L Chip Removal							

MIL50/6-T800P	MIL50/6-Y800P	MIL50/8-T800	MIL50/8S-T800	MIL50/8-D800	MIL50/8S-D800	MIL50/8-Y800	MIL50/8S-Y800	MIL50/8-D800P	MIL50/8-T800P	MIL50/8-Y800P
570	620	570	570	570	620	620	620	570	570	620
480	434	480	480	398	344	434	344	398	480	434
800	764.5	785	785	751	749.5	749.5	749.5	751	785	749.5
52	52	75	75	75	75	75	75	75	75	75
4000	4000	3000	3000	3000	3000	3000	3000	3000	3000	3000
A ₂ -6	A ₂ -6	A ₂ -8	A ₂ -8	A ₂ -8	A ₂ -8	A ₂ -8	A ₂ -8	A ₂ -8	A ₂ -8	A ₂ -8
61	61	86	86	86	86	86	86	86	86	86
Metric 70	Metric 70	Metric 90	Metric 90	Metric 90	Metric 90	Metric 90	Metric 90	Metric 90	Metric 90	Metric 90
1032.5	1057.5	1032.5	1032.5	1032.5	1057.5	1057.5	1057.5	1032.5	1032.5	1057.5
/	/	/	2940	/	2940	/	2940	/	/	/
/	/	/	A ₂ -5	/	A ₂ -5	/	A ₂ -5	/	/	/
/	/	/	56	/	56	/	56	/	/	/
/	/	/	MT 6#	/	MT 6#	/	MT 6#	/	/	/
/	/	100	/	100	/	100	/	/	/	/
/	/	125	/	125	/	125	/	/	/	/
/	/	5#	/	5#	/	5#	/	/	/	/
850	850	/	/	/	/	/	/	850	850	850
5#	5#	/	/	/	/	/	/	5#	5#	5#
240/825	225/825	240/825	240/825	225/825	180/825	225/825	180/825	225/825	240/825	225/825
A850	100/850	/	A850	/	A850	Y100	100/850	A850	A850	100/850
24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24	24/24
A 24	15/24	/	A 24	/	A 24	Y 15	15/24	A 24	A 24	15/24
12	12	12	12	12	12	12	12	12	12	12
25x25	20x20	25x25	25x25	20x20	20x20	20x20	25x25	20x20	25x25	20x20
40	32	40	40	32	32	32	32	32	40	32
±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300
A ±0.006/300	±0.006/300	/	A ±0.006/300	/	A ±0.006/300	Y ±0.006/300	±0.006/300	A ±0.006/300	A ±0.006/300	±0.006/300
±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003
A ±0.003	±0.003	/	A ±0.003	/	A ±0.003	Y ±0.003	±0.003	A ±0.003	A ±0.003	±0.003
30	40	30	50	35	55	40	65	45	35	45
4355x2085x1980										
5300	5500	5400	5600	5400	5600	5600	5800	5400	5400	5600
KND (FANUC/Siemens/SYNTEC/HNC Opt.)										
105	105	176	176	176	176	176	176	176	176	176
15	15	15	15	15	15	15	15	15	15	15
/	9.6	/	/	/	/	9.6	9.6	/	/	9.6
10"										
/	/	Opt.	/	Opt.	/	Opt.	/	/	/	/
R/L Chip Removal										

Spindle power torque diagram

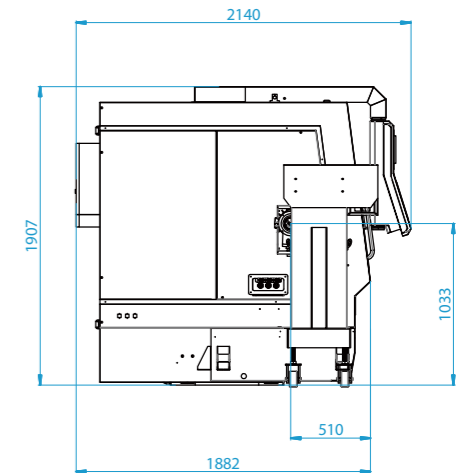
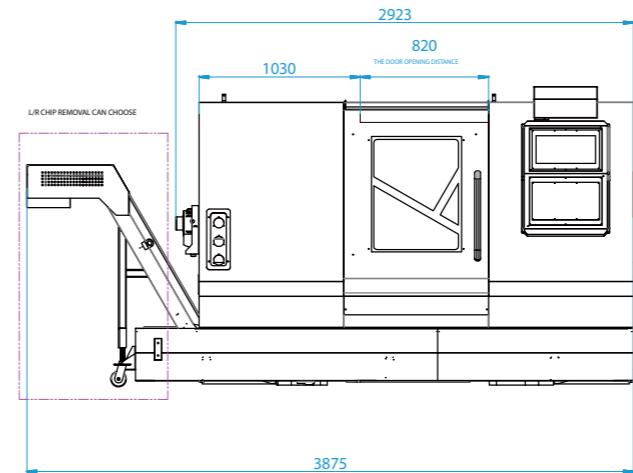


Tool interferogram

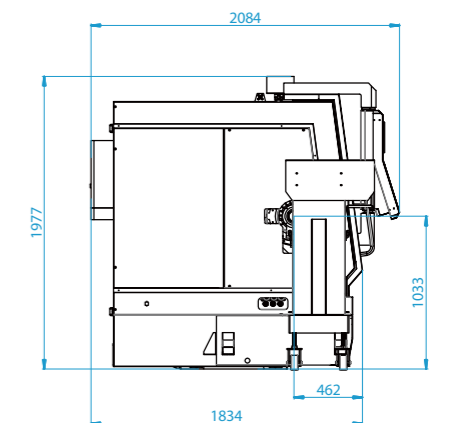
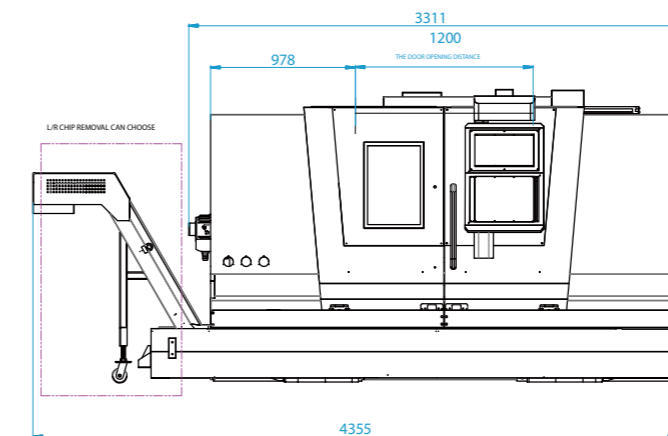


Dimensional drawing

50 SERIES 500



50 SERIES 800

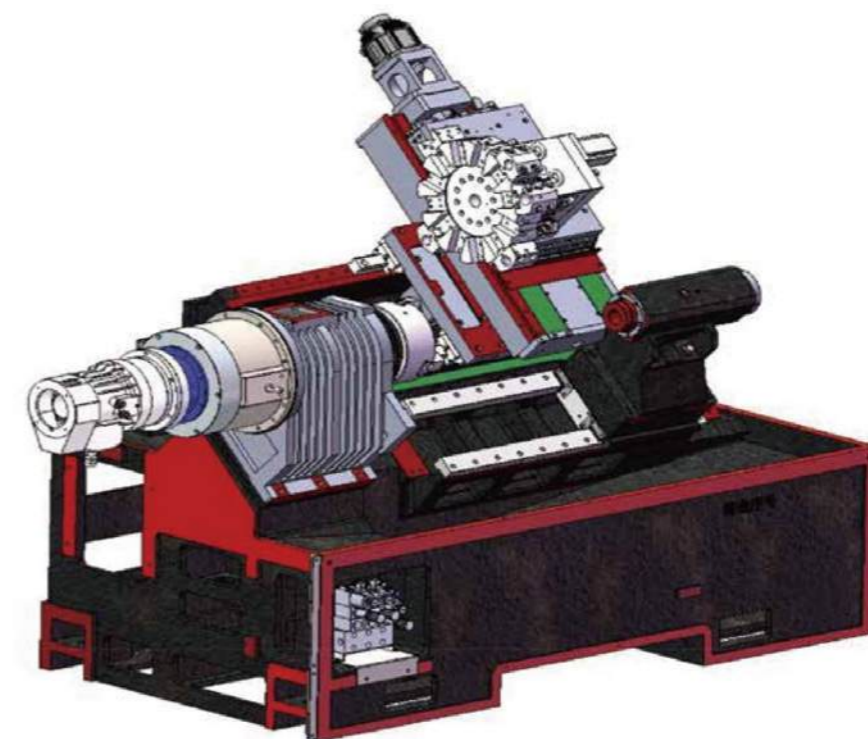


60 SERIES INTRODUCTION

60 SERIES 500

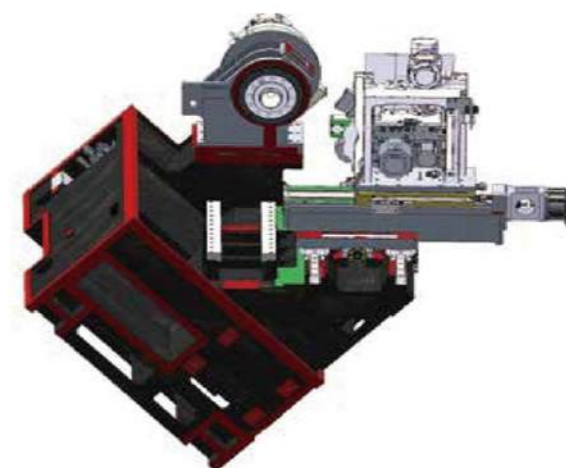
Product characteristics

- 45° overall inclined bed design, high rigidity, smoother chip removal;
- Finite element structure analysis, reasonable layout of casting ribs, good force effect;
- X/Y/Z axis lead screws are all pre-stretched structures, which can reduce the influence of temperature rise on the accuracy of the lead screw during processing, and add oil seals to protect the screw bearing at the installation on both sides of the lead screw, and silent ball screws;
- The tailstock adopts straight steel guide rail, strong heavy-duty rigidity, upper and lower layered structure, and a micro-adjustment device between the upper and lower layers, which is convenient for the tailstock top swing center to be fine-tuned in the X-axis direction, and the standard live center structure tailstock;
- Z Axis Linear Rails width is 45mm, Ensure the absolute rigidity of the machine tool.
- MEYER SEIKO independently designed integrated permanent magnet synchronous headstock box, low noise, high precision, long life, high finish, constant torque output, high C-axis positioning accuracy;
- Wide range of options: such as feeders, parts catcher, large hollow chucks, enlarged spindle through-holes, tool setting instruments, automated truss robot;
- The machine tool adopts modular design, and selects different functional equipment according to different customer product requirements, which can quickly realize the automation device and meet the needs of customers;



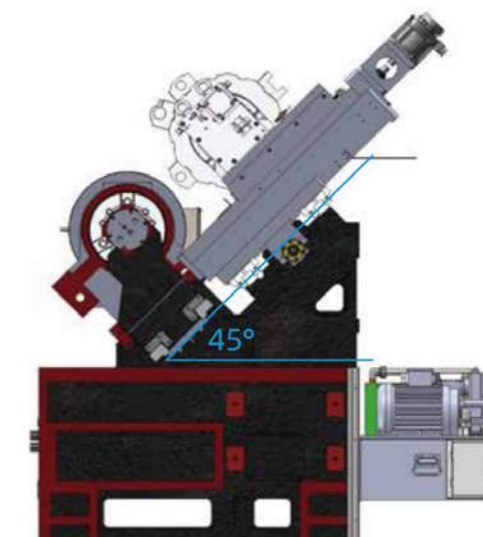
Rolling rails

High-precision linear rolling guide rails increase the speed of movement and greatly reduce non-cutting time. The imported ball guide rail is adopted, which has high positioning accuracy and less wear, which can maintain accuracy for a long time, fully improve production efficiency, and ensure its processing stability.

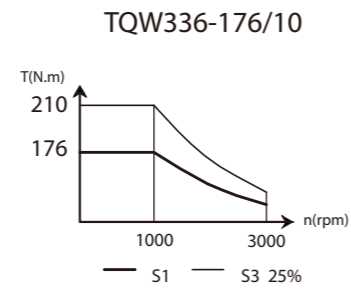
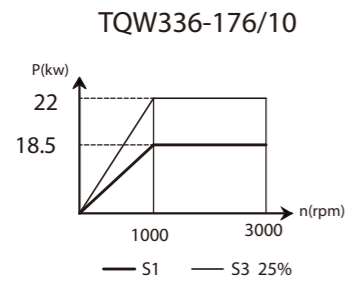


45° integral inclined bed design

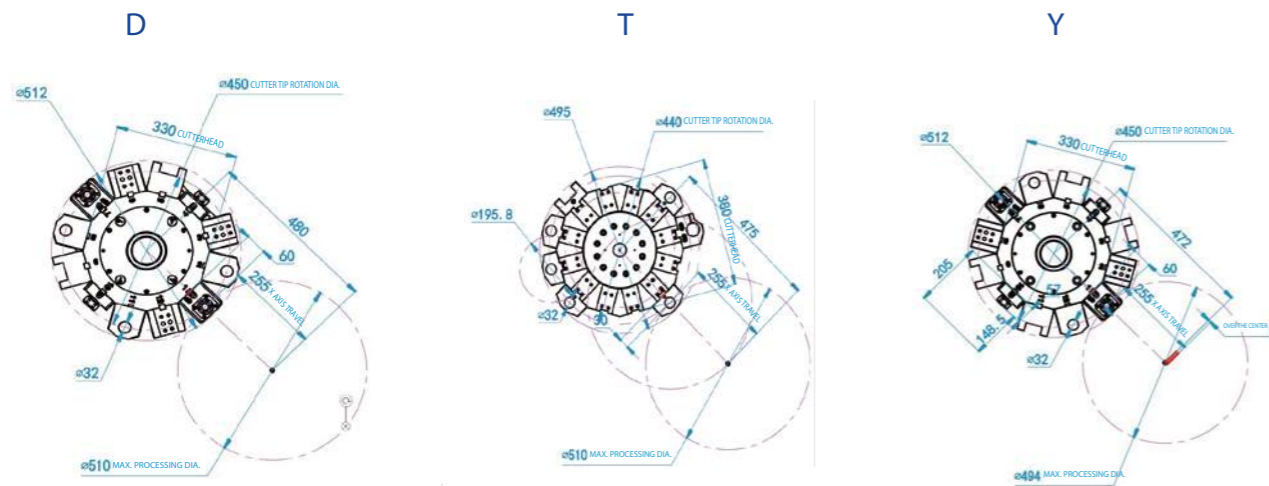
High-speed silent ball screw, improve the accuracy of the machine tool, ensure its processing stability, high positioning accuracy, less wear can maintain accuracy for a long time.



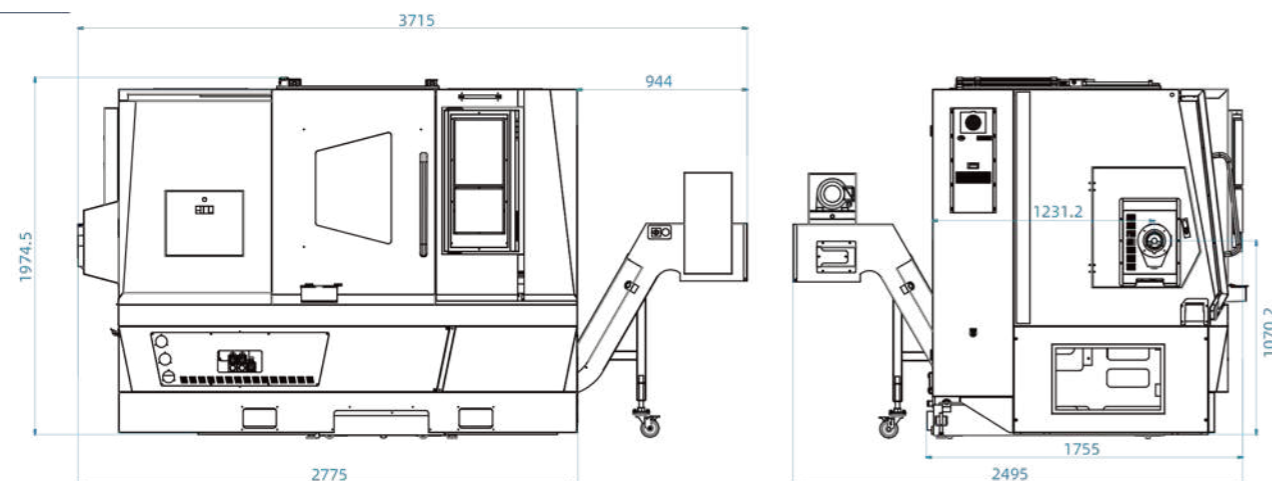
Spindle power torque diagram



Tool interferogram



Dimensional drawing



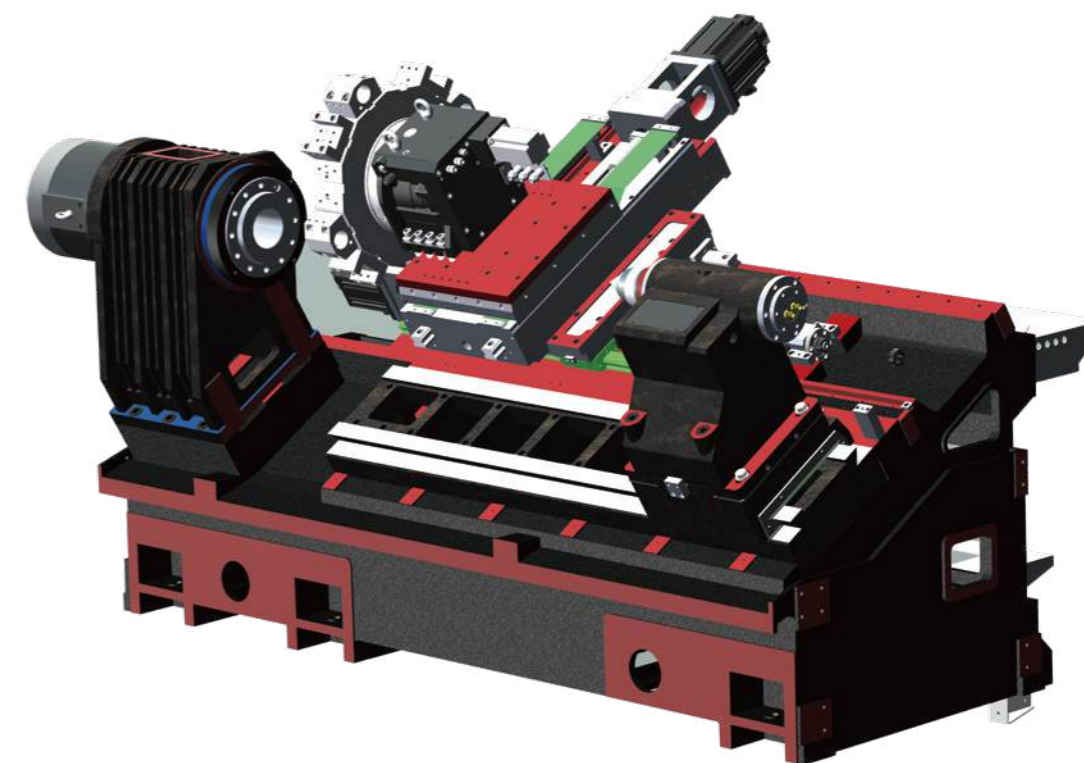
Item		Unit	MIL60/8-T500	MIL60/8-D500	MIL60/8-Y500	
Processing Range	Max.Swing dia. over bed	mm	630	630	730	
	Max.Cutting dia.	mm	500	500	494	
	Max.cutting length	mm	517	472	477	
	Max.bar dia. can pass	mm	75	75	75	
Spindle	Max.Spindle Speed	rpm	3000	3000	3000	
	Spindle Nose Model	ISO	A ₂ -8	A ₂ -8	A ₂ -8	
	Spindle thru-hole dia.	mm	φ86	φ86	φ86	
	Spindle Taper	-	Metric 90	Metric 90	Metric 90	
	Height from Spd.Center to floor	mm	1070	1070	1120	
Tailstock	Tailstock Dia./Travel	mm	100/125	100/125	100/125	
	Cone Taper	Morse	5#	5#	5#	
XYZ Axis	X/Z Travel	mm	255/560	255/560	255/560	
	Y Travel	mm	/	/	±75	
	X/Z Axis Rapid Feedrate	m/min	24/24	24/24	24/24	
	Y Axis Rapid Feedrate	m/min	/	/	15	
Tool Turret	Tool Station No.	-	12	12	12	
	OD Turning Tool Holder Size	mm	25×25	25×25	25×25	
	Max. Dia.of Boring cutter	mm	40	32	32	
Accuracy	Positioning Accuracy	X/Z	mm	±0.006/300	±0.006/300	±0.006/300
		Y	mm	/	/	±0.006/300
	Re-Positioning Accuracy	X/Z	mm	±0.003	±0.003	±0.003
		Y	mm	/	/	±0.003
Power Requested	KVA	30	40	50		
Machine Dimensions (Lx WxH)	mm	3715*1755*1975 (Right Side) / 2775*2495*1975 (Rear Side)				
Machine Weight	kg	5300	5300	5500		
CNC Controller	-	KND (FANUC/Siemens/SYNTEC/HNC Opt.)				
Spindle Torque	N.m	176	176	176		
Servo Motor Torque X/Z	N.m	15	15	15		
Servo Motor Torque Y	N.m	/	/	9.6		
Hydraulic Chuck	inch	10"	10"	10"		
Automatic Chip Conveyor	-	Right Side (Rear Side Opt.) Chip Removal				

70 SERIES INTRODUCTION

70 SERIES

Product Features

- 30° overall inclined bed design, high rigidity, Strong loading capacity, suitable for heavy cutting, chip removal easily;
- Finite element structure analysis, reasonable layout of casting ribs, good force effect; The linear guide rail adopts heavy-duty six-slide and high-strength design;
- X/Y/Z/A axis lead screws are all pre-stretched structures, which can reduce the influence of temperature rise on the accuracy of the lead screw during processing, and add oil seals to protect the screw bearing at the installation on both sides of the lead screw, and silent ball screws;
- The tailstock adopts V-shaped guide rail, strong heavy-duty rigidity, upper and lower layered structure, and a micro-adjustment device between the upper and lower layers, which is convenient for the tailstock center swing center to be fine-tuned in the X-axis direction, and standard with live center structure tailstock;
- MEYER SEIKO independently designed integrated permanent magnet synchronous headstock box, low noise, high precision, long life, high finish, constant torque output, high C-axis positioning accuracy;
- Wide range of options: such as large hollow chucks, enlarged spindle through-holes, tool setting instruments, Programmable tailstock, The second spindle can be docked at high speed;
- The machine tool adopts modular design, and selects different functional equipment according to different customer product requirements, which can quickly realize the automation device and meet the needs of customers;



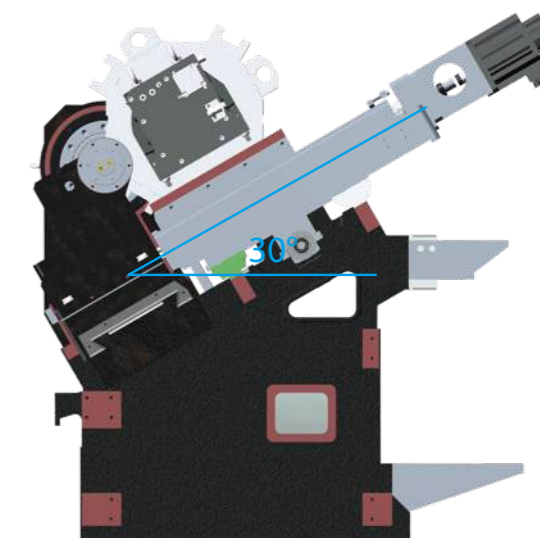
Rolling rails

The linear rolling guide rail adopts heavy-duty six-slide and high-strength design, increase the speed of movement and greatly reduce non-cutting time. The imported ball guide rail is adopted, which has high positioning accuracy and less wear, which can maintain accuracy for a long time, fully improve production efficiency, and ensure its processing stability.



30° integral inclined bed design

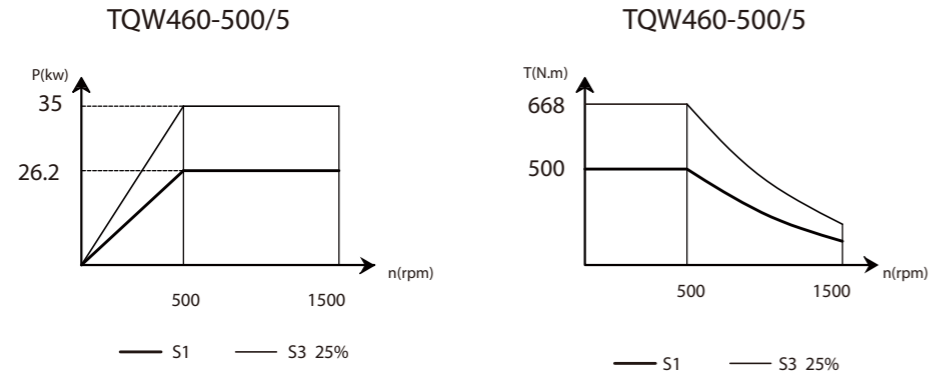
High-speed silent ball screw, improve the accuracy of the machine tool, ensure its processing stability, high positioning accuracy, less wear can maintain accuracy for a long time.



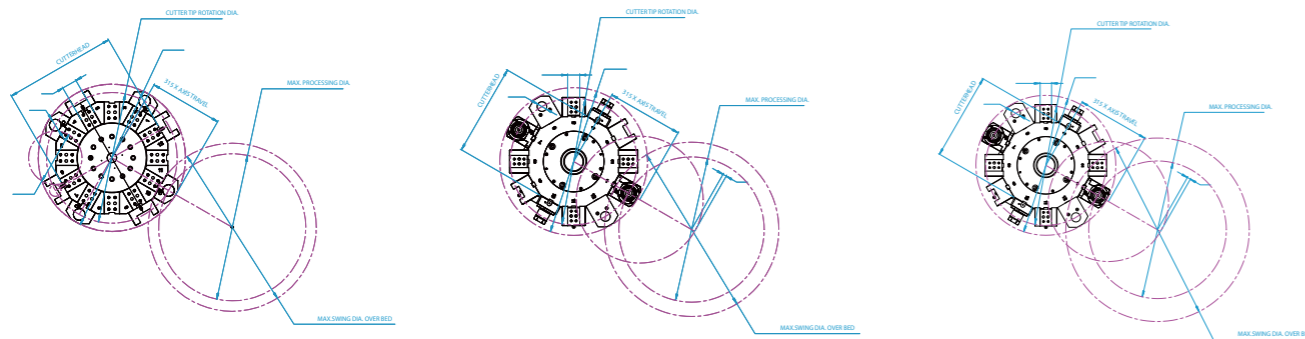
70 SERIES INTRODUCTION

70 SERIES 1000

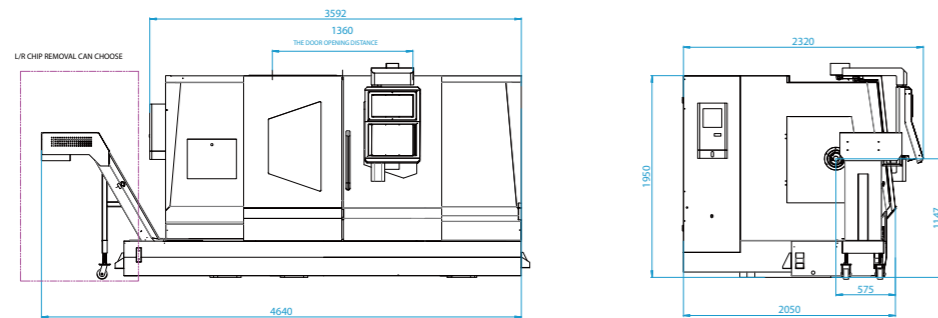
Spindle power torque diagram



Tool interferogram



Dimensional drawing

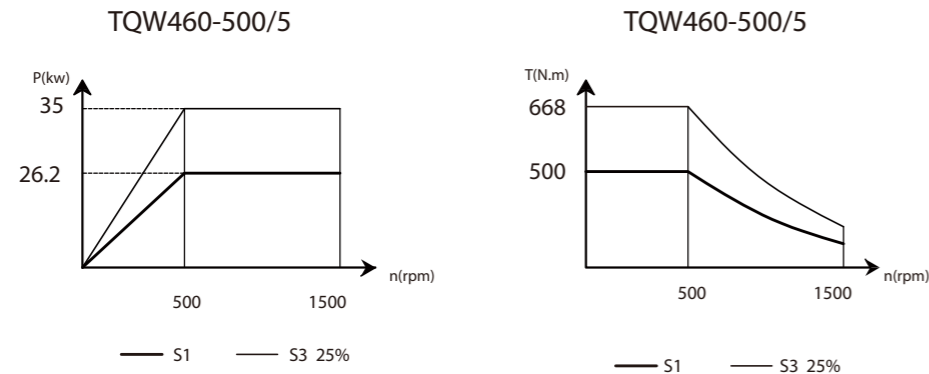


Item		unit	MIL70/11-T1000	MIL70/11-D1000	MIL70/11-Y1000	MIL70/11-T1000P	MIL70/11-D1000P	MIL70/11-Y1000P
Processing Range	Max.Swing dia. over bed	mm	720	720	800	720	720	800
	Max.Cutting dia.	mm	630	600	610	630	600	610
	Max.cutting length	mm	1000	991.5	980	1000	991.5	980
	Max.bar dia. can pass	mm	110	110	110	110	110	110
Spindle	Max.Spindle Speed	rpm	1500	1500	1500	1500	1500	1500
	Spindle Nose Model	ISO	A ₂ -11	A ₂ -11	A ₂ -11	A ₂ -11	A ₂ -11	A ₂ -11
	Spindle thru-hole dia.	mm	126	126	126	126	126	126
	Spindle Taper	-	Metric 135	Metric 135	Metric 135	Metric 135	Metric 135	Metric 135
	Height from Spd.center to floor	mm	1150	1150	1150	1150	1150	1150
Sub-Spindle	Max. Sub-Spindle Speed	rpm	/	/	/	/	/	/
	Sub-Spindle Nose End Model	ISO	/	/	/	/	/	/
	Sub-Spindle Thru-Hole Dia.	mm	/	/	/	/	/	/
	Sub-Spindle Taper	-	/	/	/	/	/	/
Hydraulic Tailstock	Tailstock Sleeve Dia.	mm	125	125	125	/	/	/
	Tailstock Sleeve Travel	mm	150	150	150	/	/	/
	Taper of the Taper Hole	Morse	6#	6#	6#	/	/	/
Servo Tailstock	Tailstock Travel	mm	/	/	/	1100	1100	1100
	Taper of the taper hole	Morse	/	/	/	6#	6#	6#
XYZA Axis	X/Z Travel	mm	315/1035	315/1035	315/1035	315/1035	315/1035	315/1035
	Y/A Travel	mm	/	/	Y200	A1100	A1100	200/1100
	X/Z Rapid Feedrate	m/min	20/20	20/20	20/20	20/20	20/20	20/20
	Y/A Rapid Feedrate	m/min	/	/	Y 15	A 20	A 20	15
Tool Turret	Tool Station No.	-	12	12	12	12	12	12
	OD Turning Tool Holder Size	mm	32X32	25x25	25x25	32X32	25x25	25x25
	Max.Tool Holder Dia.of Boring Cutter	mm	50	40	40	50	40	40
Accuracy	Positioning	X/Z	mm	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300
		Y/A	mm	/	/	Y ±0.006/300	A ±0.006/300	A ±0.006/300
	Accuracy	X/Z	mm	±0.003	±0.003	±0.003	±0.003	±0.003
		Y/A	mm	/	/	Y ±0.003	A ±0.003	A ±0.003
Power Requested	KVA	30	36	38	34	40	42	
Machine Dimensions (Lx WxH)	mm	4640x2320x2070						
Machine Weight	kg	6900	6900	7100	6900	6900	7100	
CNC Controller	-	KND (FANUC/Siemens/SYNTec/HNC Opt.)						
Spindle Torque	N.m	500						
Servo Motor Torque X/Z	N.m	18	18	18	18	18	18	
Servo Motor Torque Y	N.m	/	/	15	/	/	15	
Hydraulic Chuck	inch	Hollow12" / (Solid 15" Opt.)						
[Hydraulic Steady Rest]	mm	Opt.	Opt.	Opt.	/	/	/	
Automatic Chip Conveyor	-	R/L Chip Removal						

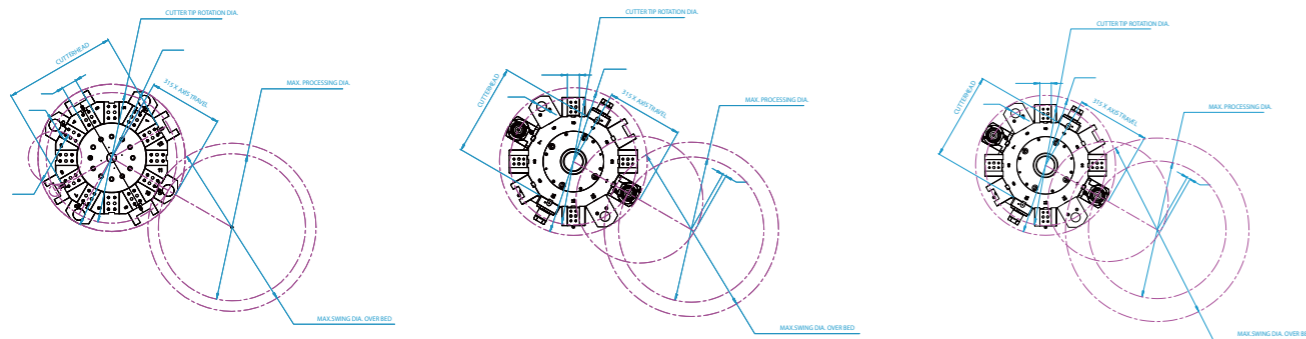
70 SERIES INTRODUCTION

70 SERIES 2000

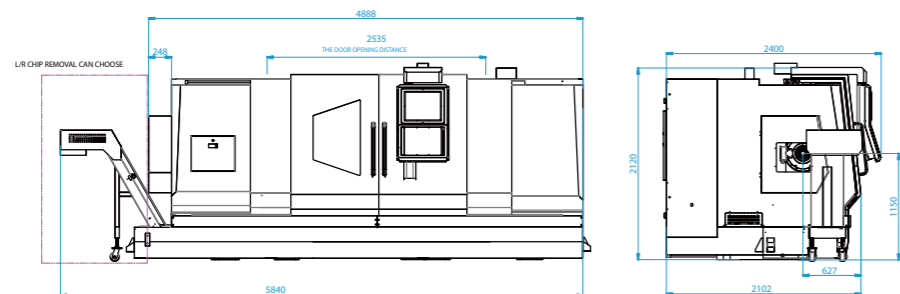
Spindle power torque diagram



Tool interferogram



Dimensional drawing



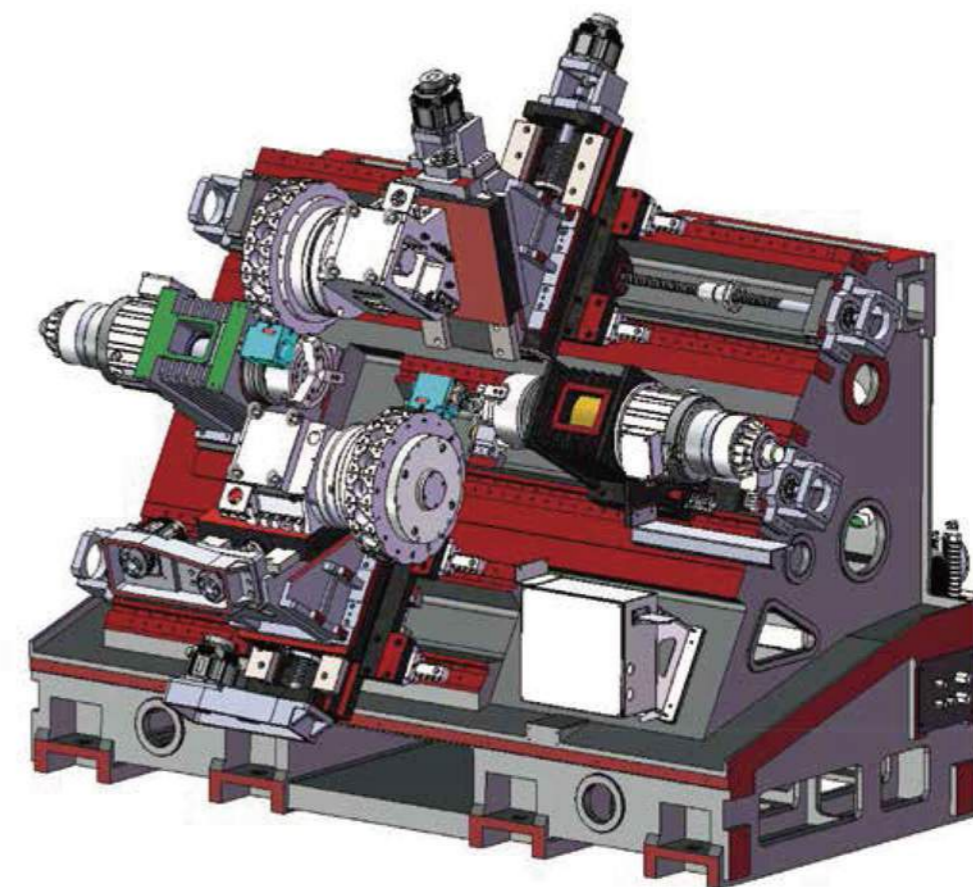
Item		unit	MIL70/11-T2000	MIL70/11-D2000	MIL70/11-Y2000	MIL70/11-T2000P	HIL70/11-D2000P	HIL70/11-Y2000P	
Processing Range	Max.Swing dia. over bed	mm	720	720	800	720	720	800	
	Max.Cutting dia.	mm	630	600	610	630	600	610	
	Max.cutting length	mm	2000	1991.5	1980	2000	1991.5	1980	
	Max.bar dia. can pass	mm	110	110	110	110	110	110	
Spindle	Max.Spindle Speed	rpm	1500	1500	1500	1500	1500	1500	
	Spindle Nose Model	ISO	A ₂ -11	A ₂ -11	A ₂ -11	A ₂ -11	A ₂ -11	A ₂ -11	
	Spindle thru-hole dia.	mm	126	126	126	126	126	126	
	Spindle Taper	-	Metric 135	Metric 135	Metric 135	Metric 135	Metric 135	Metric 135	
	Height from Spd. center to floor	mm	1150	1150	1150	1150	1150	1150	
Sub-Spindle	Max. Sub-Spindle Speed	rpm	/	/	/	/	/	/	
	Sub-Spindle Nose End Model	ISO	/	/	/	/	/	/	
	Sub-Spindle Thru-Hole Dia.	mm	/	/	/	/	/	/	
	Sub-Spindle Taper	-	/	/	/	/	/	/	
Hydraulic Tailstock	Tailstock Sleeve Dia.	mm	125	125	125	/	/	/	
	Tailstock Sleeve Travel	mm	150	150	150	/	/	/	
	Taper of the Taper Hole	Morse	6#	6#	6#	/	/	/	
Servo Tailstock	Tailstock Travel	mm	/	/	/	2100	2100	2100	
	Taper of the taper hole	Morse	/	/	/	6#	6#	6#	
XYZA Axis	X/Z Travel	mm	315/2035	315/2035	315/2035	315/2035	315/2035	315/2035	
	Y/A Travel	mm	/	/	Y200	A2100	A2100	200/2100	
	X/Z Rapid Feedrate	m/min	20/20	20/20	20/20	20/20	20/20	20/20	
	Y/A Rapid Feedrate	m/min	/	/	Y 15	A 15	A 15	20	
Tool Turret	Tool Station No.	-	12	12	12	12	12	12	
	OD Turning Tool Holder Size	mm	32X32	25x25	25x25	32X32	25x25	25x25	
	Max.Tool Holder Dia.of Boring Cutter	mm	50	40	40	50	40	40	
Accuracy	Positioning Accuracy	X/Z	mm	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300	±0.006/300
		Y/A	mm	/	/	Y ±0.006/300	A ±0.006/300	A ±0.006/300	±0.006/300
	Re-Positioning Accuracy	X/Z	mm	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003
		Y/A	mm	/	/	Y ±0.003	A ±0.003	A ±0.003	±0.003
Power Requested	KVA	40	46	48	44	50	52		
Machine Dimensions (Lx WxH)	mm	5640x2320x2070							
Machine Weight	kg	9300	9300	9500	9300	9300	9500		
CNC Controller	-	KND (FANUC/Siemens/SYNTEC/HNC Opt.)							
Spindle Torque	N.m	500							
Servo Motor Torque X/Z	N.m	18	18	18	18	18	18		
Servo Motor Torque Y	N.m	/	/	15	/	/	15		
Hydraulic Chuck	inch	Hollow12" / (Solid 15" Opt.)							
[Hydraulic Stead Rest]	mm	Opt.	Opt.	Opt.	/	/	/		
Automatic Chip Conveyor	-	R/L Chip Removal							

TM SERIES INTRODUCTION

TM200 (Twin Spindles) Series

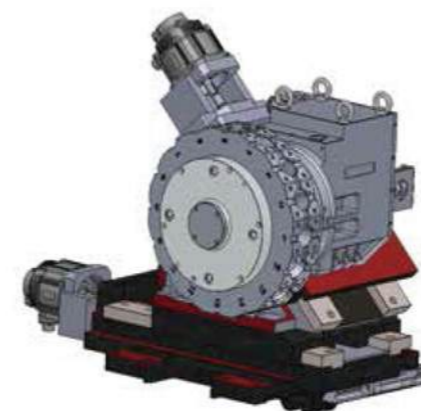
Product characteristics

- The main components of the machine tool are made of high-quality resin sand molding, high-strength and high-quality cast iron, with perfect heat treatment process, eliminating residual stress and arranging enough stiffeners to ensure that the whole machine has sufficient strength, rigidity and high stability, all of which have been processed by ternary analysis;
- The spindle is directly driven by a permanent magnet synchronous electric spindle, which has the advantages of sensitive drive, stable output torque, high finish, fast positioning and high speed
- The machine tool adopts double spindles and double turrets, which can realize the one-time processing and forming for most workpieces;
- The Y-axis adopts a virtual axis to increase the rigidity of the machine tool and the accuracy of the Y-axis;
- Wide range of options: such as bar feeder, parts catcher, tool setting instruments, The second spindle can be docked at high speed.



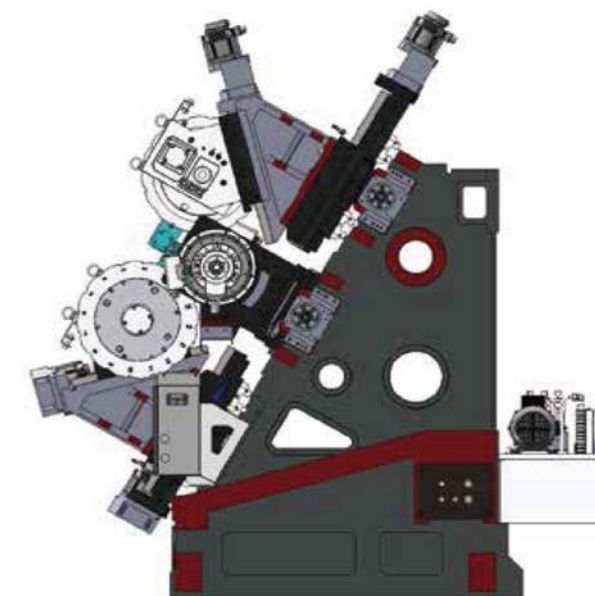
Rectangular Guide rail

Rectangular guide rail is used in the X direction and Y direction, which is designed with high strength and high rigidity, which greatly reduces the cutting time. The imported guide rail material is adopted, with high positioning accuracy and less abrasion, which can maintain accuracy for a long time, fully improve productivity and ensure its processing stability.

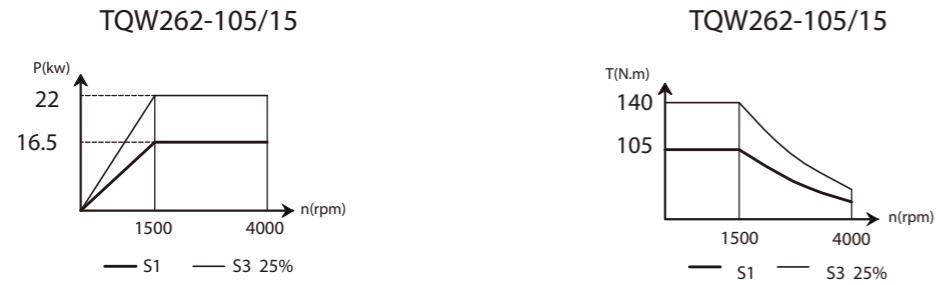


60° integral inclined bed design

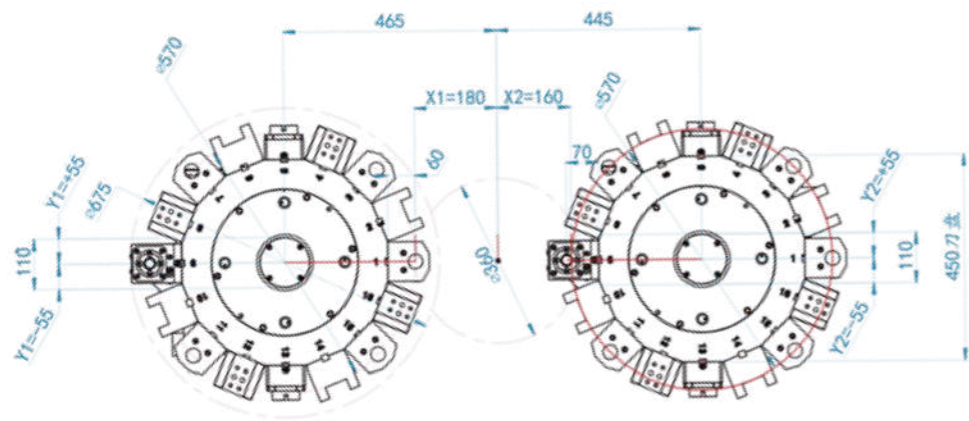
High-speed silent ball screw, improve the accuracy of the machine tool, ensure its processing stability, high positioning accuracy, less wear, and can maintain accuracy for a long time.



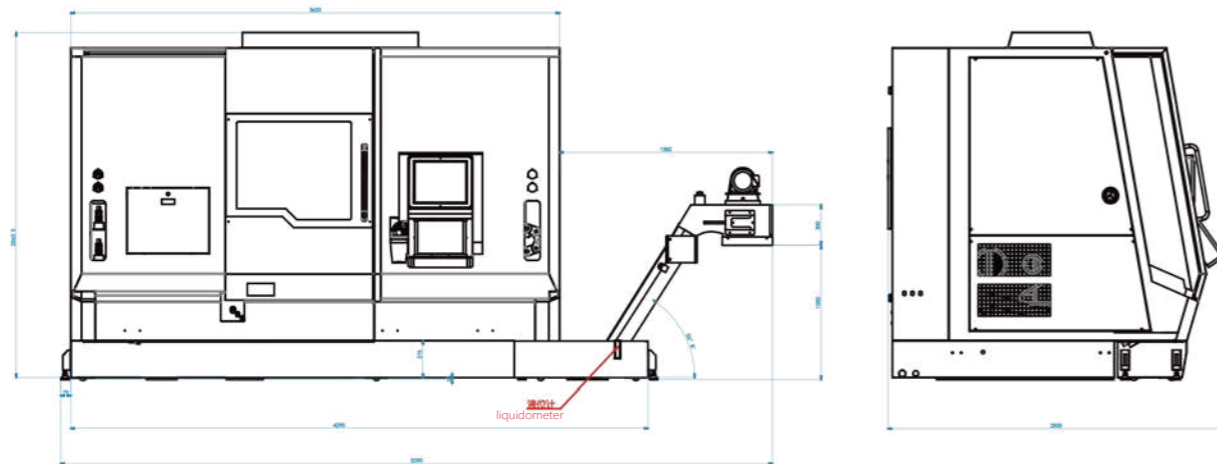
Spindle power torque diagram



Tool interferogram



Dimensional drawing



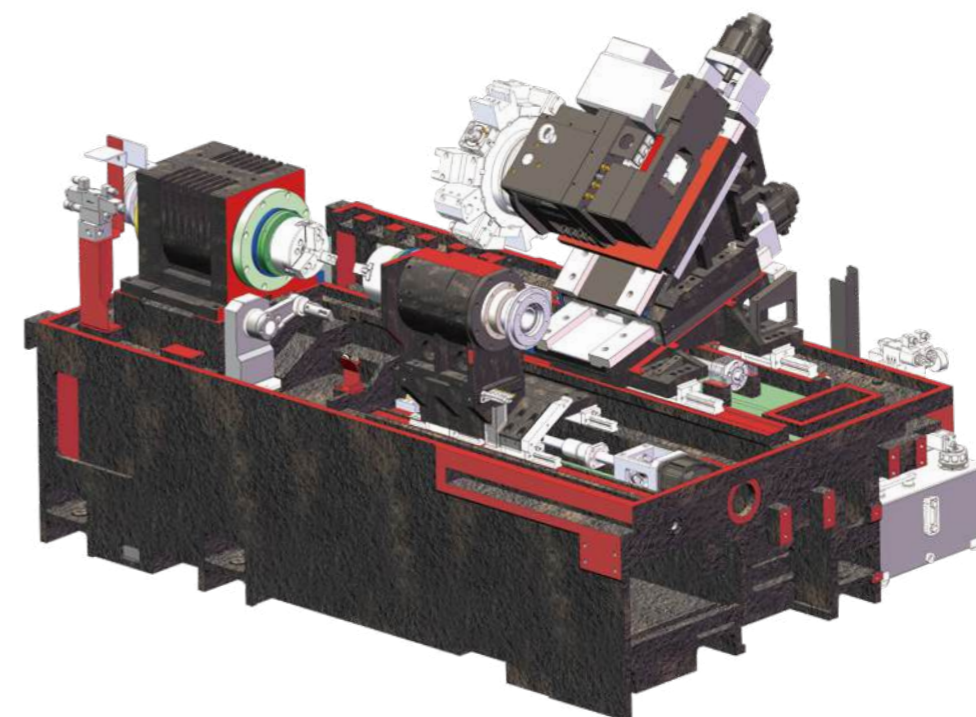
Item		Unit	TM200	Remarks	
Processing Range	Max.Swing dia. over bed	mm	440		
	Max.Cutting dia.	mm	380		
	Max.cutting length	mm	665		
	Max.bar dia. can pass	mm	52		
Main Spindle & Sub-Spindle (L & R)	Max.Spindle Speed	rpm	4000		
	Spindle Nose Model	ISO	A ₂ -6		
	Spindle thru-hole dia.	mm	φ62		
	Spindle Taper	-	Metric 70		
	Height from Spd.Center to floor	mm	1370		
XYZB Axis	X1/X2 Travel	mm	180/160		
	Z1/Z2 Travel	mm	665/665		
	Y1/Y2 Travel	mm	±55/±55		
	B Travel	mm	760		
	X1/X2 Rapid Feedrate	m/min	20		
	Z1/Z2 Rapid Feedrate	m/min	20		
	Y1/Y2 Rapid Feedrate	m/min	8		
	B Rapid Feedrate	m/min	20		
Upper & Lower Tool Turrets (L & R)	Tool Station No.	mm	16		
	OD Cutter Size	mm	25x25		
	Max.dia.of ID Cutter	mm	32		
	Driven Tool Power	KW	8.5	ER32	
	Max.Speed of Driven Tool	rpm	4500	Max. 10000rpm opt.	
Accuracy	Positioning Accuracy	X1/X2	mm	±0.006/300	
		Z1/Z2	mm	±0.006/300	
		Y1/Y2	mm	±0.006/300	
		B	mm	±0.006/300	
	Re-Positioning Accuracy	X1/X2	mm	± 0.003	
		Z1/Z2	mm	± 0.003	
		Y1/Y2	mm	± 0.003	
		B	mm	± 0.003	
Others	Max.Torque of Main Spindle	N.m	140 (Permanent magnet synchronous spindle)		
	Max.Torque of Sub-Spindle	N.m	140 (Permanent magnet synchronous spindle)		
	Power Requested	KVA	70		
	G.W.	KG	9500		
	CNC Controller	-	FANUC (Siemens/SYNTEC/KND/HNC Opt.)		

TM SERIES INTRODUCTION

TM06 (Single Spindle) Series

Product Features

- The main components of the machine tool are made of high-quality resin sand molding, high-strength and high-quality cast iron, with a perfect heat treatment process, eliminating residual stress and arranging sufficient stiffeners to ensure that the whole machine has sufficient strength, rigidity and high stability, all of which have been processed by Three-dimensional finite element method (FEM);
- The spindle adopts permanent magnet synchronous electric spindle direct drive, its advantages are sensitive drive, stable output torque, high finish, fast positioning and high speed,
- Low noise and other characteristics, the base adopts double-layer isolation technology to prevent high-pressure water leakage;
- The machine tool adopts modular design, which can quickly realize the automation device to meet the needs of customers;
- Withdrawable coolant tank for easy chip sweeping;
- Wide range of options: such as feeder,parts catcher,tool setting instruments,The second spindle can be docked at high speed,automated truss robot.



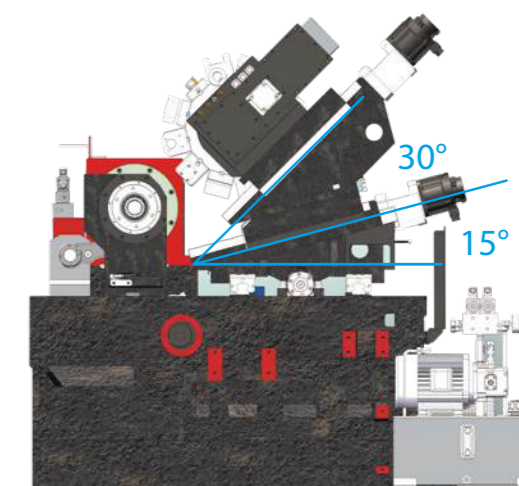
Rolling rails

The Z-axis adopts high-precision linear rolling guide rail, which improves the moving speed and greatly reduces the non-cutting time. The imported ball guide rail is adopted, which has high positioning accuracy and less wear, which can maintain accuracy for a long time, fully improve productivity and ensure its processing stability



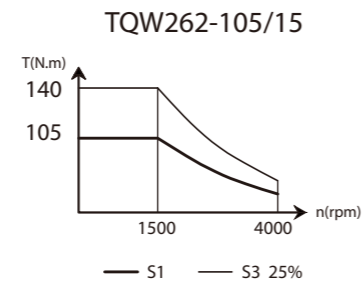
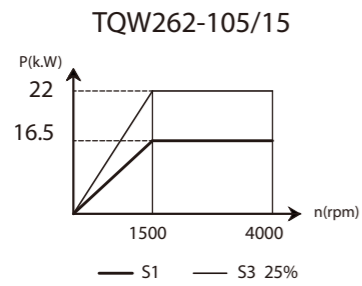
Virtual Y-axis turn-mill compounding

The virtual Y axis adopts two pairs of high-precision steel-mounted guide rails to ensure the processing rigidity of the machine tool and the wear resistance of the guide rail to ensure a long period of life, and the screw adopts a ball high-speed silent screw to improve the accuracy of the machine tool, ensure its processing stability, high positioning accuracy, less wear and tear can maintain accuracy for a long time.

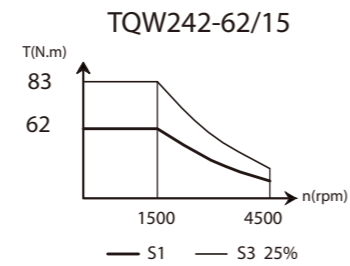
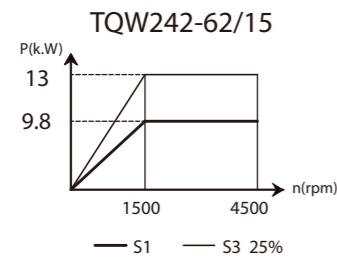


Spindle power torque diagram

Spindle 1

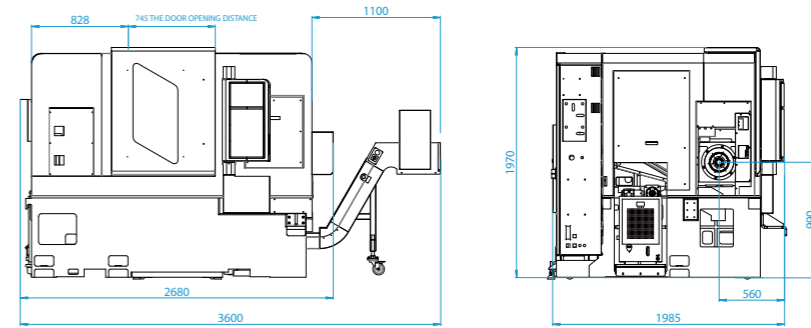
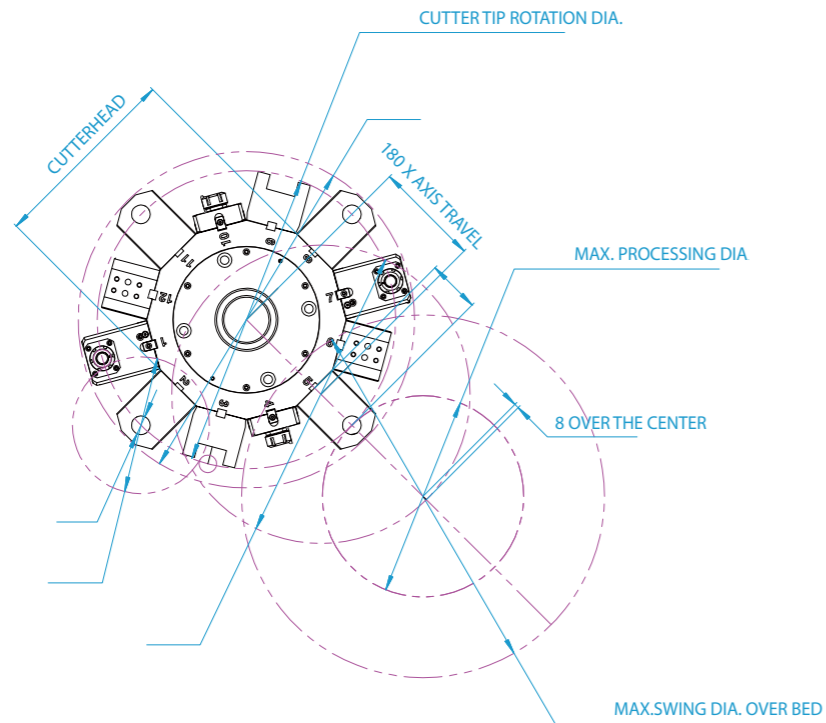


Spindle 2



Tool interferogram

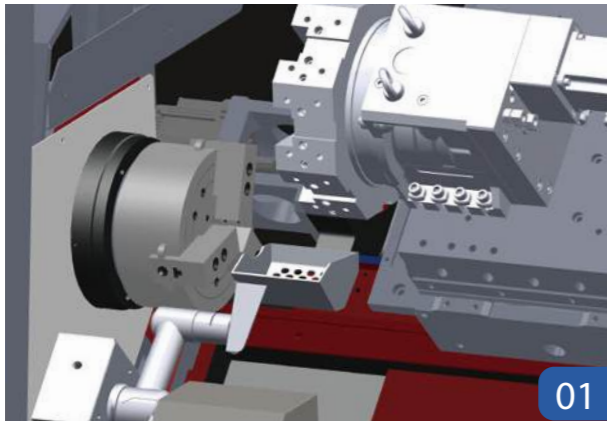
S



Item	Parameter	unit	TM06S-Y	TM06-ZY	TM06S-D	TM06-ZD
Processing Capacity	Max.Swing dia.over bed	mm	φ 520	φ 520	φ 520	φ 520
	Max.turning dia.	mm	φ 260	φ 260	φ 340	φ 340
	Max.Turning Length	mm	580	580	580	580
	Max.bar can pass	mm	φ 50	φ 50	φ 50	φ 50
Spindle	Max.Spindle Speed	rpm	4000	4000	4000	4000
	Spindle Nose Model	/	A ₂ -6	A ₂ -6	A ₂ -6	A ₂ -6
	Spindle through-hole dia	mm	φ 62	φ 62	φ 62	φ 62
	Spindle Taper	-	Metric 70	Metric 70	Metric 70	Metric 70
Counterspindle	Max.Counterspindle Speed	rmp	4500	/	4500	/
	Counterspindle Nose Model	/	A ₂ -5	/	A ₂ -5	/
	Counterspindle through-hole dia.	mm	φ 56	/	φ 56	/
	Counterspindle Taper	-	MT 6#	/	MT 6#	/
Tailstock	Tailstock sleeve taper	Morse	/	5#	/	5#
	Tailstock sleeve Dia./Travel	mm	/	125	/	125
XYZA Axis	X/Z Axis Travel	mm	211/500	211/500	211/500	211/500
	Y/A Axis Travel	mm	±50/606	±50/606	A 606	A 606
	X/Z Axis Rapid Feedrate	m/min	24/24	24/24	24/24	24/24
	Y/A Axis Rapid Feedrate	m/min	12/24	12/24	A 24	A 24
	X/Z Axis Positioning Accuracy	mm	±0.006/300	±0.006/300	±0.006/300	±0.006/300
	Y/A Axis Positioning Accuracy	mm	±0.006/300	±0.006/300	A ±0.006/300	A ±0.006/300
	X/Z Axis Re-Positioning Accuracy	mm	±0.003	±0.003	±0.003	±0.003
Y/A Axis Re-Positioning Accuracy	mm	±0.003	±0.003	A ±0.003	A ±0.003	
Tool	Tool Turret Stations	-	12	12	12	12
	OD Turning Cutter Tool Holder Size	mm	20x20	20x20	20x20	20x20
Turret	Boring Hole Tool Holder Size	mm	φ 40/ φ 32	φ 40/ φ 32	φ 40/ φ 32	φ 40/ φ 32
Others	Overall Dimensions (L x W x H)	mm	2741x1861x1979			
	Weight	kg	6200	6150	6000	5950

Three-Axis Truss Robot

- MIL40 series can be equipped with high-speed three-axis truss robot to replace labor, improve production efficiency, small footprint, easy equipment movement and other excellent characteristics.
- It is especially suitable for fast and high-volume machining of small parts. Can maintain stable working performance;
- The bed structure is analyzed and optimized by finite element, and the casting is treated with secondary aging, which has high rigidity and high stability;The bed guide rail is linear guide rail, with small friction coefficient, fast displacement speed and high positioning accuracy.



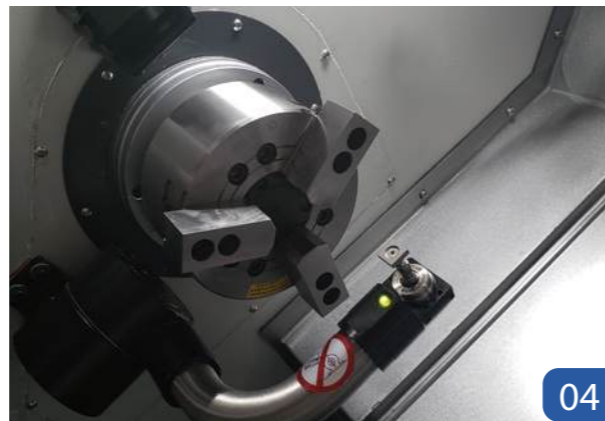
01



02



03



04



05



06

01. Parts Catcher

02. Auto. Bar Feeder

03. Steady Rest

04. Auto. Tool Setting Arm

05. Pneumatic door

06. Oil-water Separator