

CNC Lathe

TH-22 / 26

TL-18 / 20 / 25

TH-18 / 20 / 21 / 25

TH-18 / 2S / 3S / 4S

MT-4000 / 5000 / 6000



 **WELLTECH**[®] WELLTECH MACHINERY CO., LTD.



CNC Lathe



Taiwan

Welltech Machinery Co.,Ltd.

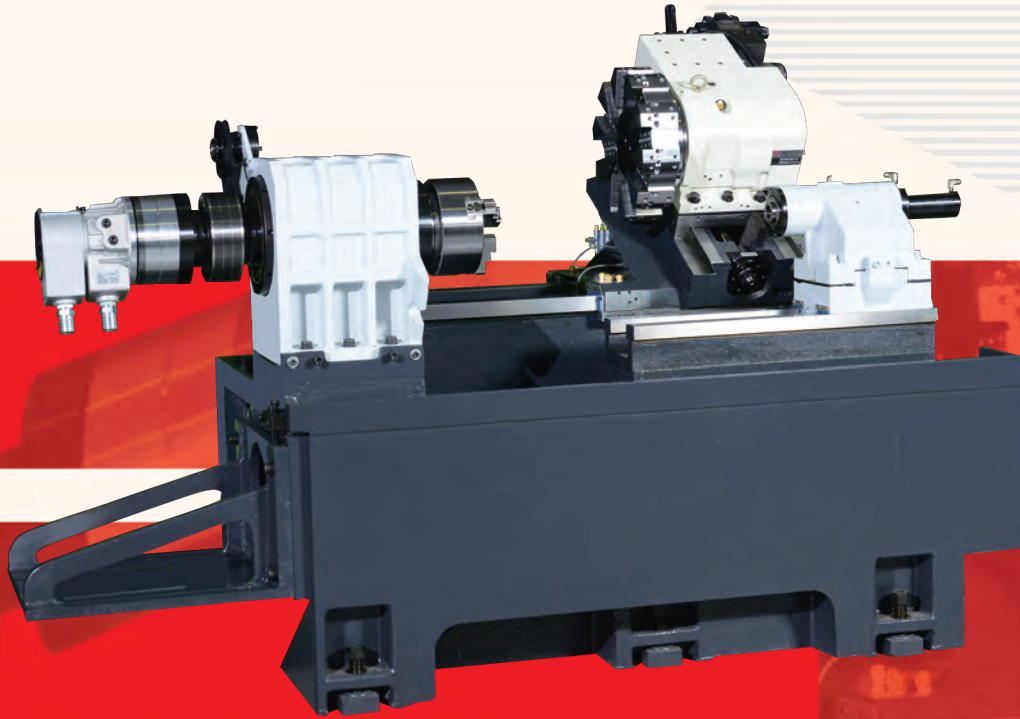
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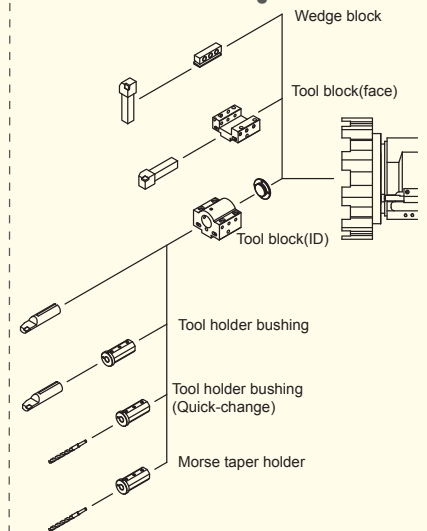
TH-18 / TH-20 / TH-21 / TH-25



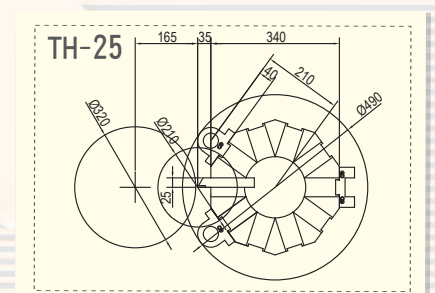
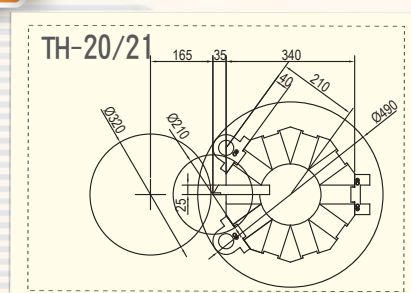
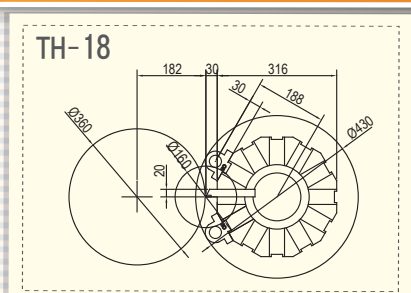
Features

- Meehanite cast iron base, superior stability and proper for heavy cutting.
- Control system: up-to-date Fanuc controller (option: Mitsubishi series)
- Stable square base structure, 170 x 90 cm
- Applied SKF / NSK angular contact ball bearings on spindle housing.
- Box guideway, TURCITE-B Slydway, well wear resistance and positioning accuracy.
- Preloading ball screws: increasing rigidity, less the hot deformation.
- Heavy duty: 20 HP
- Hydraulic turret: 10 Tools (op. 8 tools)
- Lubrication pump: pumping precise amount of oil and monitoring for faults in the system.
- Stainless telescopic covers: durable and well chip removing
- High efficient chip removal: chip conveyor with enlarged outlet.
- Extended electric cabinet for better heat rejection.
- Separate electric components for cool working condition.
- Oil mist collector and oil skimmer included.
- External coolant tank allows you to clean.
- Optimum operation interface, editable PLC programs.
- User friendly, inner storage for tools and documents.

Tool interference diagram

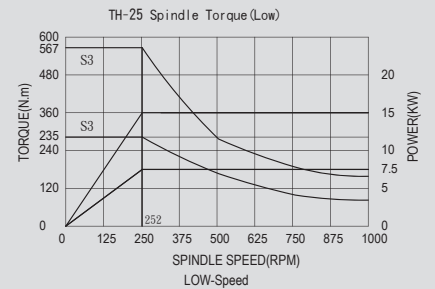
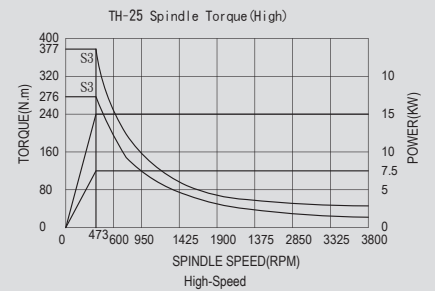
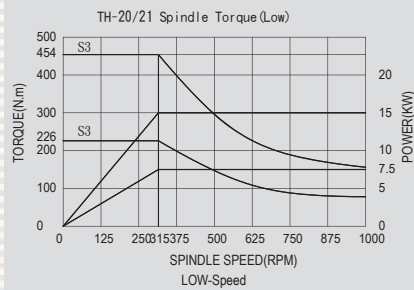
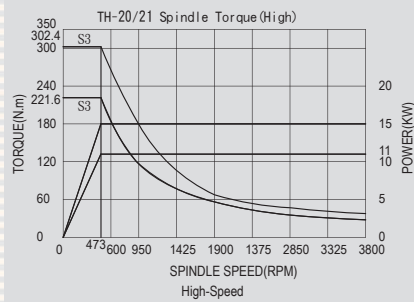
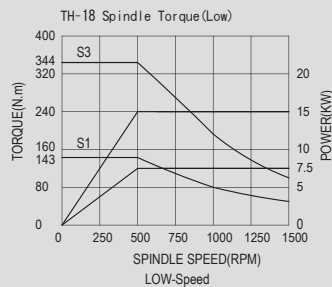
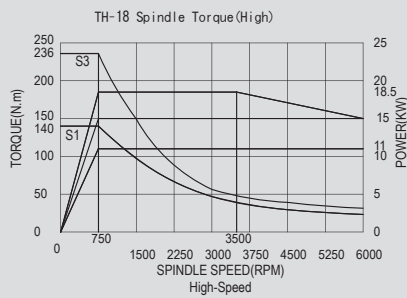


Tool interference diagram



Boxway Series

TH-18/TH-20/TH-21/TH-25



	TH-18	TH-20	TH-21	TH-25
Chuck (inch)	6	8	8	10
Spindle speed	6000	3800	3800	3000
Tools	12	10 (8)	10 (8)	10 (8)
Max. turning dia.(mm)	320	320 (360)	320 (360)	320 (360)
Max. turning length (mm)	600	600	600	600

Boxway Series

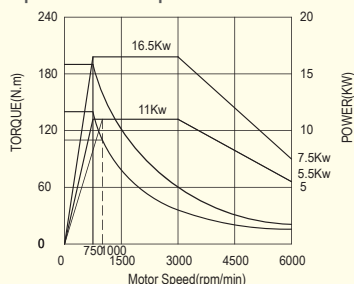
TH-22 / TH-26



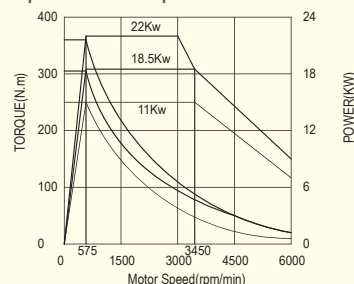
Features

- 30 degree slant bed design
- Double box guideways
- slant design for efficient chip removal
- Meehanite cast iron base, superior stability and proper for heavy cutting.
- Control system: up-to-date Fanuc controller (option: Mitsubishi series)
- Box guideway, TURCITE-B Slidway, well wear resistance and positioning accuracy.
- Preloading ball screws: increasing rigidity, less the hot deformation.
- Heavy duty: 20HP.
- Hydraulic turret: 10 Tools (op. 8 tools)
- Lubrication pump: pumping precise amount of oil and monitoring for faults in the system.
- Stainless telescopic covers: durable and well chip removing
- High efficient chip removal: chip conveyor with enlarged outlet.
- Oil skimmer included.
- External coolant tank allows you to clean.

TH-22 Spindle Torque



TH-26 Spindle Torque



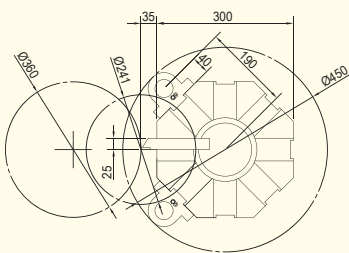
Boxway Series

TH-22 / TH-26

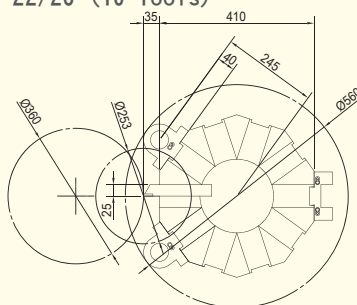


Tool interference diagram

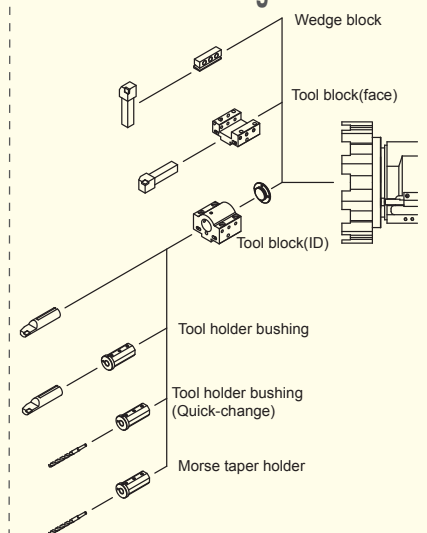
TH-22/26 (8 Tools)



TH-22/26 (10 Tools)



Tool interference diagram



	TH-22	TH-26
Chuck (inch)	8	10
Spindle speed	4500	3500
Tools	10 (8)	10 (8)
Max. turning dia.(mm)	320 (360)	320 (360)
Max. turning length (mm)	500	500

Linear guide ways

TL-18 / TL-20 / TL-25

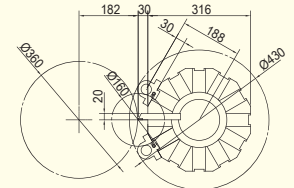


Features

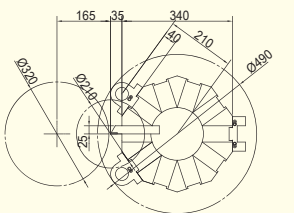
- High accuracy and high rigidity :Roller linear guide ways
- 30 degree slant bed design
- Meehanite cast iron base: superior stability and proper for heavy cutting.
- Control system: up-to-date Fanuc controller (option: Mitsubishi series)
- Stable square base structure, 170 x 90 cm
- Applied SKF / NSK angular contact ball bearings on spindle housing.
- Preloading ball screws: increasing rigidity, less the hot deformation.
- Heavy duty: 20HP.
- Hydraulic turret: 10 Tools (op. 8 tools)
- Lubrication pump: pumping precise amount of oil and monitoring for faults in the system.
- Stainless telescopic covers: durable and well chip removing
- High efficient chip removal: chip conveyor with enlarged outlet.
- Extended electric cabinet for better heat rejection.
- Separate electric components for cool working condition.
- Oil mist collector and oil skimmer included.
- External coolant tank allows you to clean.
- Optimum operation interface, editable PLC programs.
- User friendly, inner storage for tools and documents.

Tool interference diagram

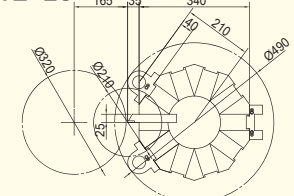
TL-18



TL-20/21



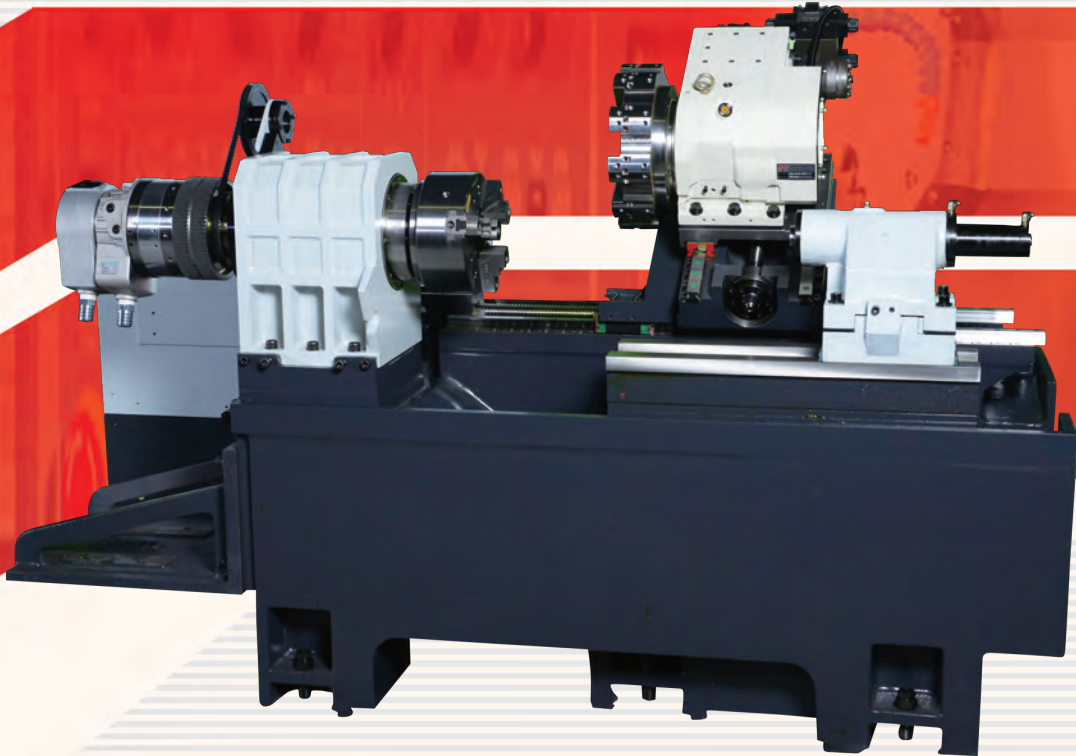
TL-25



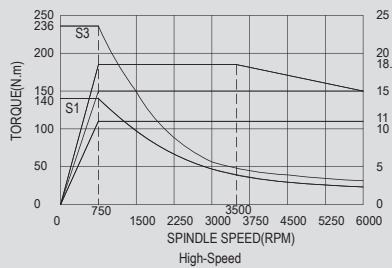
	TL- 18	TL- 20	TL- 25
Chuck (inch)	6	8	10
Spindle speed	6000	3800	3000
Tools	12	10 (8)	10 (8)
Max. turning dia.(mm)	320	320 (360)	320 (360)
Max. turning length (mm)	600	600	600

Linear guide ways

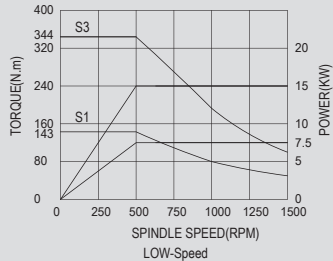
TL-18 / TL-20 / TL-25



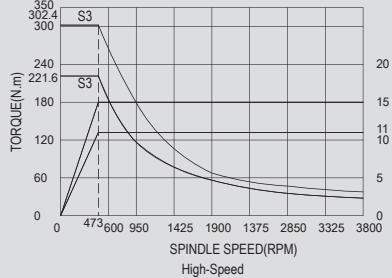
TL-18 Spindle Torque(High)



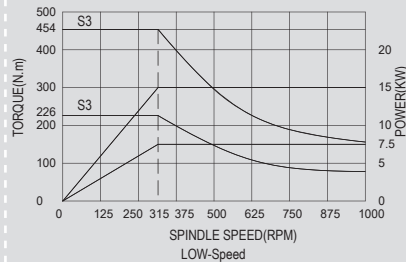
TL-18 Spindle Torque(Low)



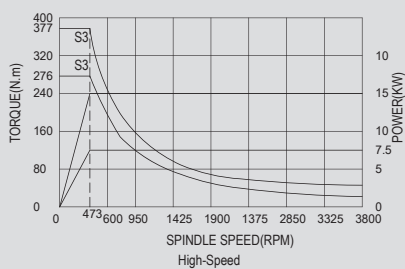
TL-20 Spindle Torque(High)



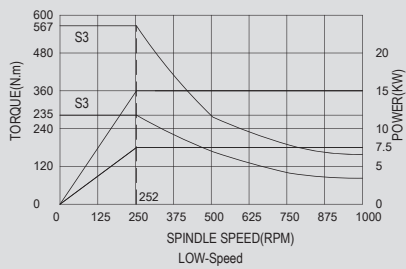
TL-20 Spindle Torque(Low)



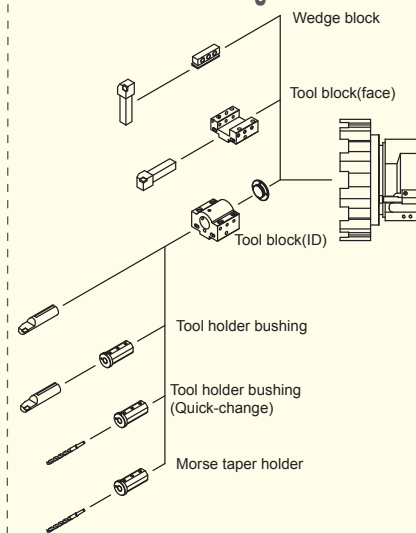
TL-25 Spindle Torque(High)



TL-25 Spindle Torque(Low)

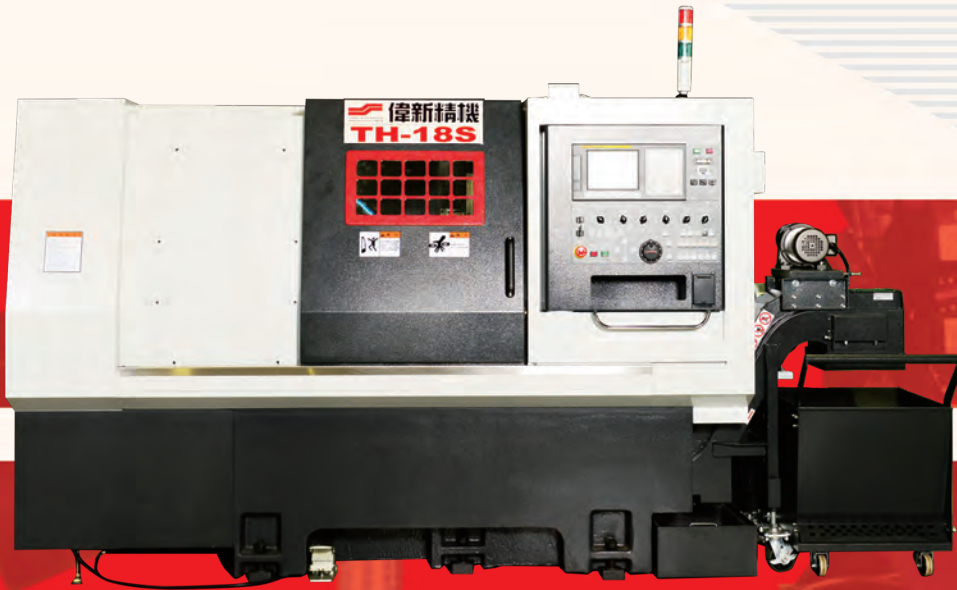


Tool interference diagram



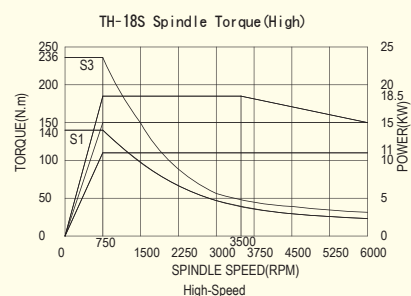
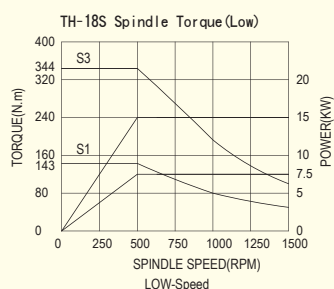
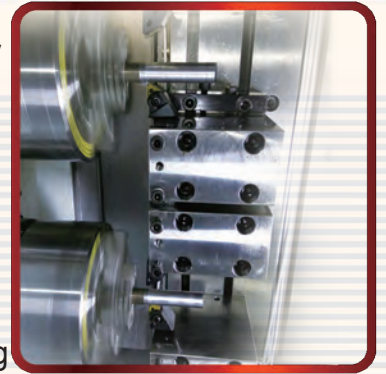
Multi-Spindle Turning Center

TH18/2S/3S/4S



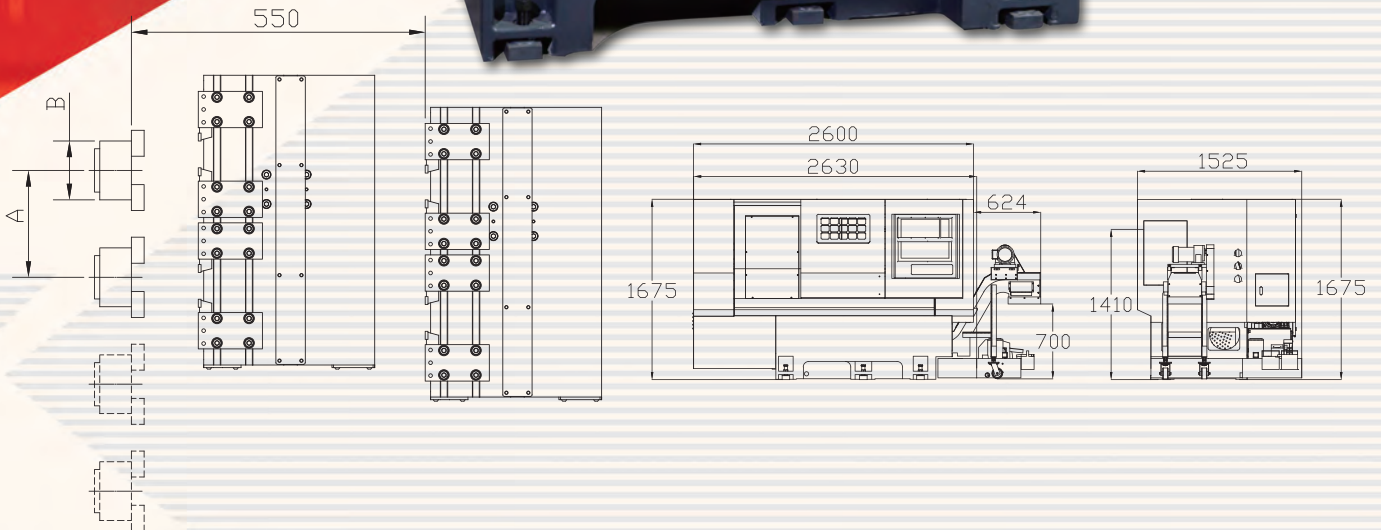
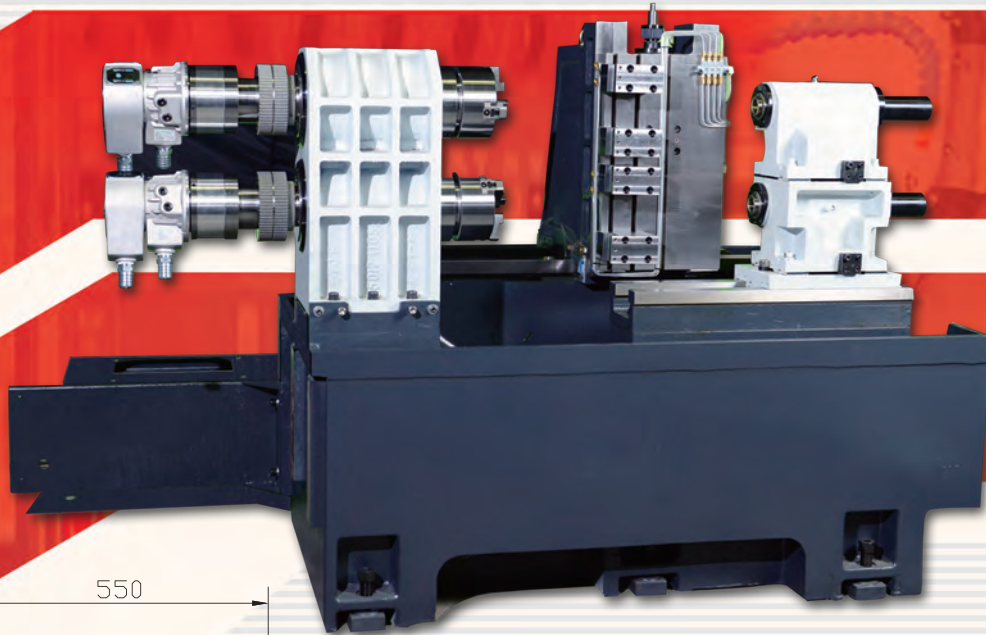
Features

- Twin-, Tri-, Quad-Spindle simultaneously processing: booster productivity by 200 to 400%.
- Optional accessory: Tailstock for long workpiece.
- Meehanite cast iron base: superior stability and proper for heavy cutting.
- Control system: up-to-date Fanuc controller (option: Mitsubishi series)
- Stable square base structure, 170 x 90 cm
- Applied SKF / NSK angular contact ball bearings on spindle housing.
- Box guideway, TURCITE-B Slydway, well wear resistance and positioning accuracy.
- Preloading ball screws: increasing rigidity, less the hot deformation.
- Heavy duty: 20HP.
- Lubrication pump: pumping precise amount of oil and monitoring for faults in the system.
- Extended electric cabinet for better heat rejection.
- Separate electric components for cool working condition.
- Oil mist collector and oil skimmer included.
- External coolant tank allows you to clean.
- Optimum operation interface, editable PLC programs.
- User friendly, inner storage for tools and documents.



Multi-Spindle Turning Center

TH18/2S/3S/4S



model		unit	TH-18/2S	TH-18/3S	TH-18/4S
Travel	Z axis	mm	550	550	550
	X AXIS	mm	60/130	50/110	40/90
SPD pitch		mm	246	220	200
Cutting Dim	Double tool holder	mm	30-50	20-40	10-30
	Single tool holder	mm	120	100	80
Spindle	Chuck	Inch(mm)	6"(169)	5"(135)	4"(110)
	SPD motor	Hp	20	20	20
	SPD speed	rpm	4000	4500	5000
	Head stocks	pcs	2	3	4
Tool	Tool Capacity	pcs	2-4	3-6	4-8
	Shank Size	mm	20	20	20
	Min. Length	mm	25	20	15

STANDARD ACCESSORIES :

- Coolant system
- Chip conveyor with bucket
- Full guard
- Rigid Tapping
- Oil skimmer
- Oil-Mist collector
- Heat exchanger
- Hy .Pressure detection
- Leveling bolt & pads
- 1 Year machine warranty
- 2 Year controller warranty

All specifications and designs are subject to change without prior notice.

Superior features



★ Friendly height for easier loading and unloading

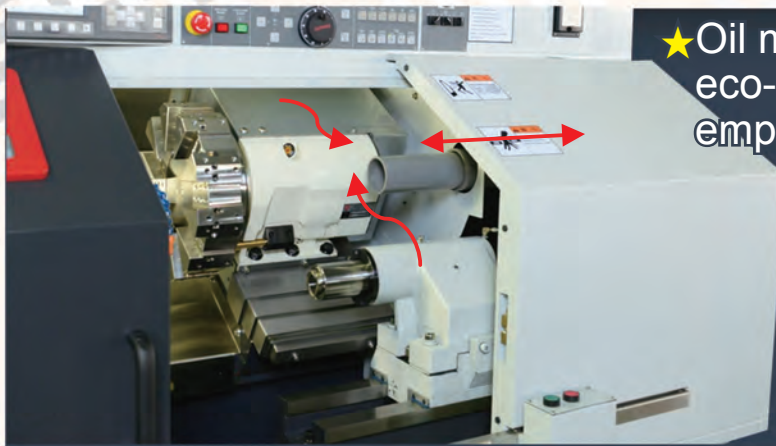


★ Disk Type oil skimmer, to remove floating grease, extend coolant life and avoid annoying smell.



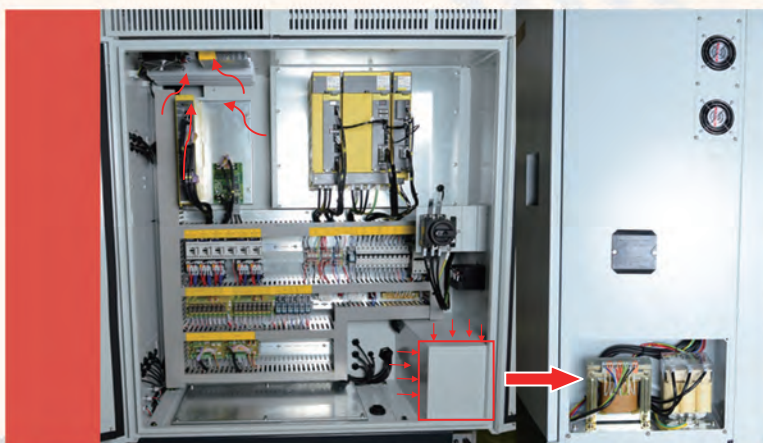
★ Durable stainless splash guard, well chip removing.

★ Well organized, storage for accessories and manuals.



★ Oil mist collector, eco-concern and reduce employees' health risk

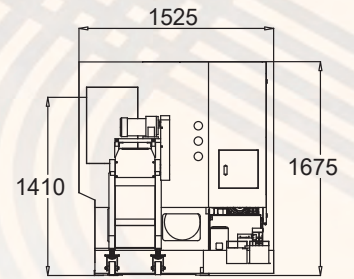
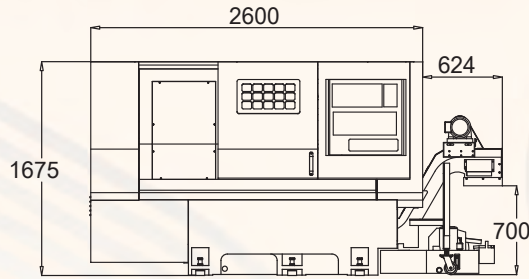
★ The collected smoking will be leaded to coolant tank and clarifying by oil skimmer.



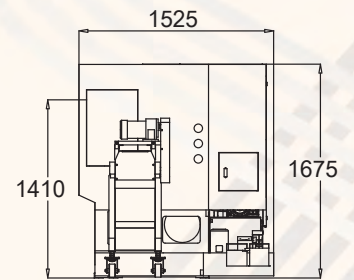
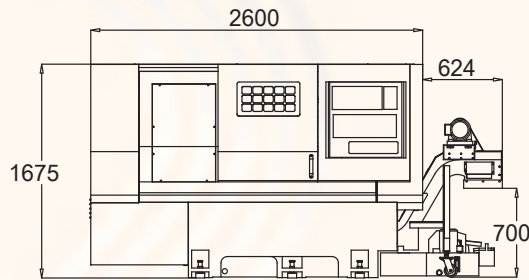
★ Large electric cabinet, better heat rejection Internal fan for cooling
Separate electric components for cool working condition.
Widely using aluminum heat sinks,

Machine Layout

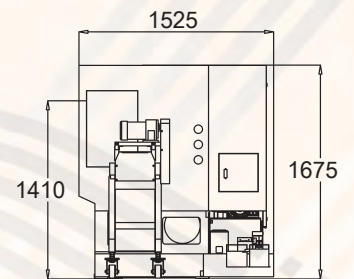
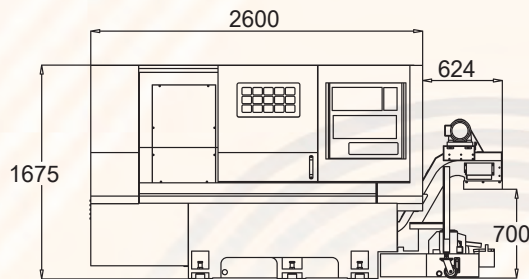
TH-18/2S/3S/4S



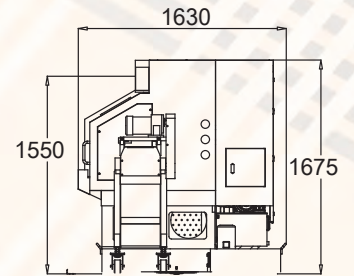
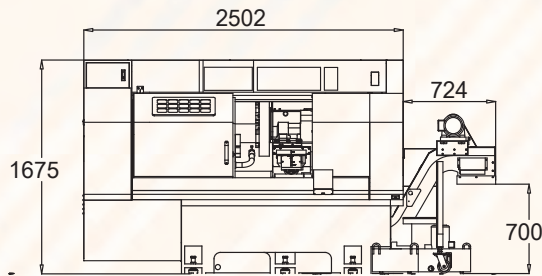
TH-20/TH-25



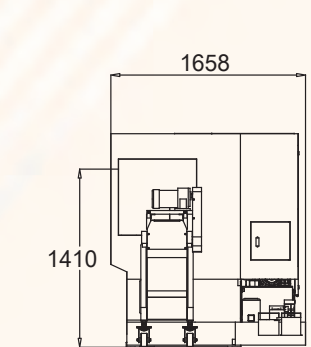
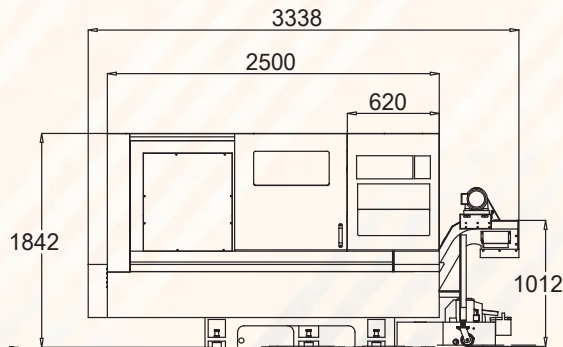
TL-18/20/25



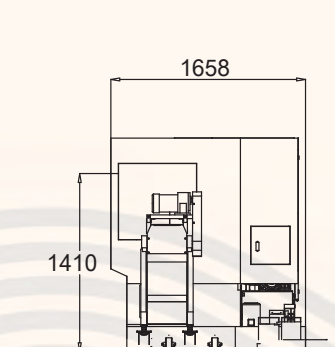
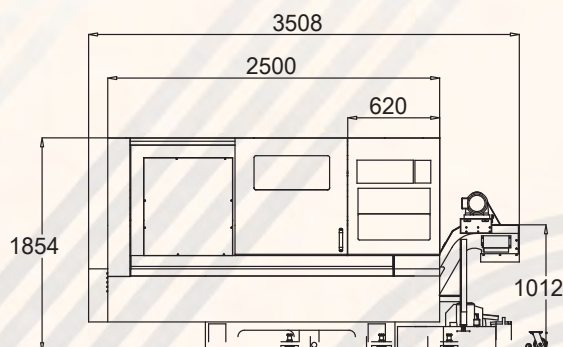
TH-21



TH-22



TH-26



Machine spec.

Item		Unit	TH- 18	TH-20/21	TH-25	TL- 18	TL-20	TL-25	TH-22	TH-26
Capacity	Swing over bed	mm	460			460			530	
	Swing over carriage	mm	320			320			380	
	Between centers	mm	620			620			500	
	Max. turning length	mm	600			600			500	
	Max. turning dia	mm	320(360)			320(360)			360	
	Bar Capacity	mm	42	52	66	42	52	66	52	75
Spindle	Chuck	Inch	6”	8”	10”	6”	8”	10”	8”	10”
	Spindle Nose	Type	A2-5	A2-6	A2-6	A2-5	A2-6	A2-6	A2-6	A2-8
	Bearing spc.	Type	7016	NN3020	NN3022	7016	NN3020	NN3022	NN3022	NN3024
	Bearing inside dia	mm	80	100	110	80	100	110	100	120
	Motor	Hp	15	20	20	15	20	20	20	25
	Speed	rpm	6000	3800	3000	6000	3800	3000	4500	3500
Turret	Tools	pcs	12	10(8)		11	10(8)		10(8)	
	Shank	mm	20	25		20	25		25	
	Max. boring bar dia.	mm	32	40		32	40		40	
X axis	Travel	mm	160(180)+20			160(180)+20			180+20	
	Rapid feed	m/min	18			18			20	
	Feed motor	Kw	1.8			1.8			1.8	
Z axis	Travel	mm	600			600			500/700	
	Rapid feed	m/min	20			24			20	
	Feed motor	Kw	1.8			1.8			1.8	
Tailstock	Type		Manual			Manual			Manual	
	Quill dia.	mm	70			70			70	
	Quill stroke	mm	90			90			90	
	Morse Taper	型式	MT4			MT4			MT4/MT5	
Oil mist collector	Capacity	Hp	1/4			1/4			1/4	
	Outlet dia.	mm	125			125			125	
	Inlet dia.	mm	80			80			80	
Motors	Hydraulic pump	Hp	2			2			2	
	Lub. pump	W	30			30			30	
	Coolant pump	Hp	1			1			1	
Power required		KVA	25			30			30	
General Spec.	X axis	Type	Box way			Linear			Box way	
	Z axis	Type	Box way			Linear			Box way	
	Tank capacity	Liter	100			100			100	
	Machine dimension	mm	3400/1500*1650			3400/1500*1650			3350/1700*1840	
	Machine weight	Kg	3800	3900	4000	3800	3900	4000	4500	5000
	SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.									

ACCESSORIES

Standard / Options

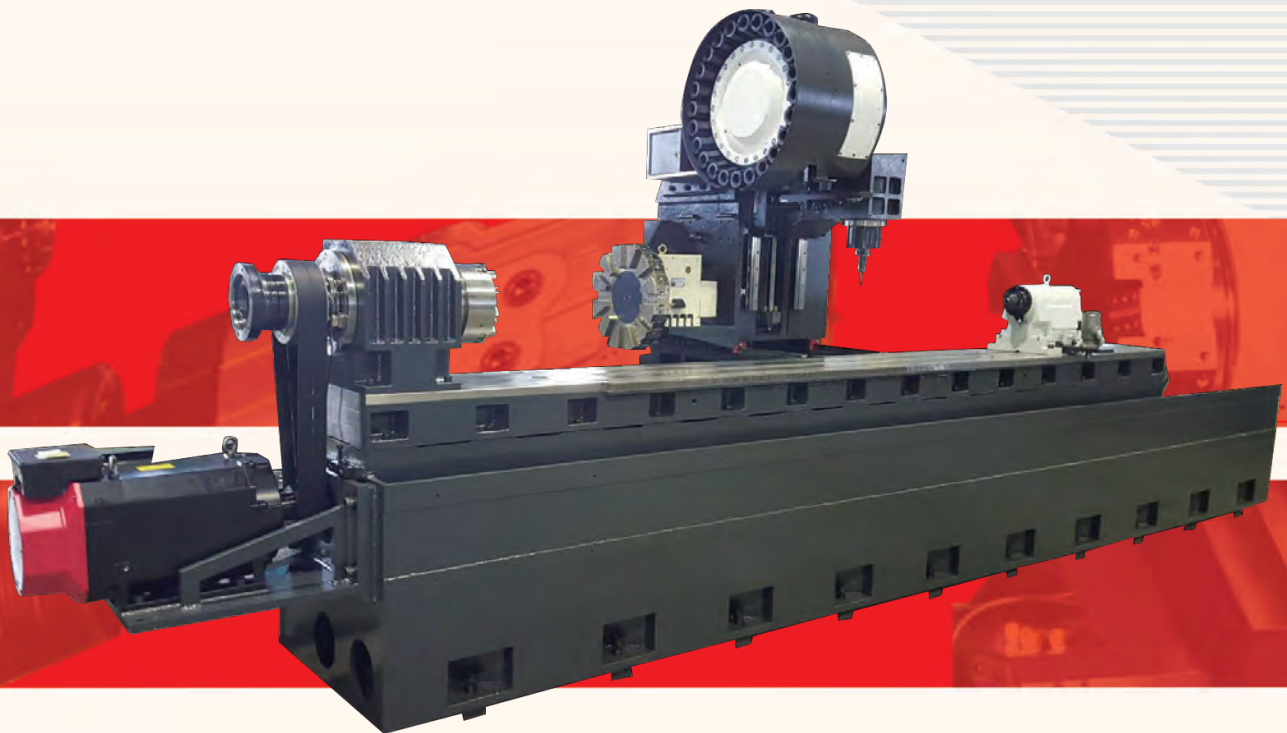
●std

★opt

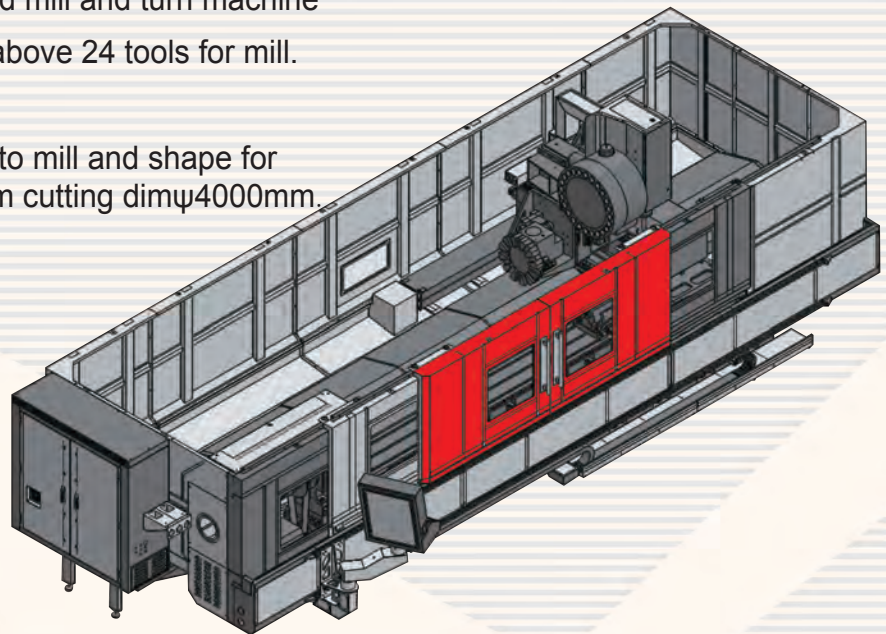
Item	TH-18	TH-20/21	TH-25	TL-18	TL-20	TL-25	TH-22	TH-26
Hydraulic turret	●	●	●	●	●	●	●	●
Live tooling turret	★	★	★	★	★	★	★	★
Chip conveyor	●	●	●	●	●	●	●	●
Chip cart	●	●	●	●	●	●	●	●
Fully enclosure guarding	●	●	●	●	●	●	●	●
Oil mist collector	●	●	●	●	●	●	●	●
Oil skimmer	●	●	●	●	●	●	●	●
Thermal control	●	●	●	●	●	●	●	●
Bar stopper	●	●	●	●	●	●	●	●
Automatic door	★	★	★	★	★	★	★	★
Heat exchanger	★	★	★	★	★	★	★	★
Tool Length Measurement System	★	★	★	★	★	★	★	★
Chuck checking system	★	★	★	★	★	★	★	★
Stabilizer	★	★	★	★	★	★	★	★
Transformer	★	★	★	★	★	★	★	★
Part catcher	★	★	★	★	★	★	★	★
Part conveyor system	★	★	★	★	★	★	★	★
Bar feeder	★	★	★	★	★	★	★	★
Pneumatic system on 3-jaw	★	★	★	★	★	★	★	★
Coolant pump - 300 psi (21 bar)	★	★	★	★	★	★	★	★
Boring bar tool holder * 8PCS	●	●	●	●	●	●	●	●
Facing tool holder * 2PCS	●	●	●	●	●	●	●	●
Wedge block (face) *2PCS	●	●	●	●	●	●	●	●
OD tool clamber *10PCS	●	●	●	●	●	●	●	●
32 Drill socket	●	●	●	●	●	●	●	●
25 Drill socket	●	●	●	●	●	●	●	●
20 Drill socket	●	●	●	●	●	●	●	●
16 Drill socket	●	●	●	●	●	●	●	●
12 Drill socket	●	●	●	●	●	●	●	●
10 Drill socket	●	●	●	●	●	●	●	●
8 Drill socket	●	●	●	●	●	●	●	●
25 Quick-change Drill socket	●	●	●	●	●	●	●	●
32 Quick-change Drill socket	●	●	●	●	●	●	●	●
MT-2 Drill socket	●	●	●	●	●	●	●	●
Anti-vibration drill socket (25/32)	★	★	★	★	★	★	★	★
8" soft jaw * 10 sets	●	●	●	●	●	●	●	●
8" hard jaw * 1 set	●	●	●	●	●	●	●	●
Live center MT4 *1PC	●	●	●	●	●	●	●	●
Tool kit	●	●	●	●	●	●	●	●
Lathe boring ring *1PC	●	●	●	●	●	●	●	●

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

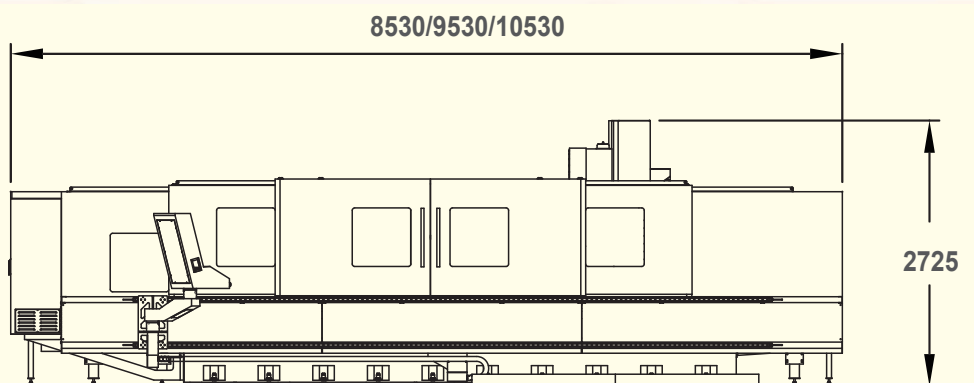
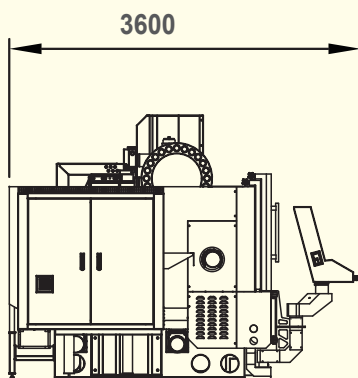
MT-Series Milling and Turning machine



- 4000mm to 6000mm lengthened mill and turn machine
- 12 turn tools as standard, and above 24 tools for mill.
- Steady machine structure.
- Stable loading capacity, allows to mill and shape for 4000mm to 6000mm. Maximum cutting diameter 4000mm.



Machine Layout



MT-Series Milling and Turning machine specification

Item	Unit	specification		
Travel		MT-4000	MT-5000	MT-6000
TZ Axis	mm	3230	4230	5230
TX Axis	mm	200		
MX Axis	mm	4100	5100	6100
MY Axis	mm	480		
MZ Axis	mm	570		
Machine Capacity				
TZ Axis	mm	3230	4200	5200
TX Axis	mm	φ60~φ400		
MX Axis	mm	4000	5100	6100
MY Axis	mm	410		
MZ Axis	mm	150~720		
Turning Spindle				
Spindle Nose	Type	A2-8		
Chuck	inch	10”/12”		
Spindle Motor Power	HP	24.8		
Max. Spindle speed	RPM	3000		
C Axis Accuracy	Type	0.001°		
Milling Spindle				
Spindle Nose	Type	BT-40		
Max. Spindle Speed	RPM	10000		
Turret				
No. of Tools	pcs	12		
Tool Shank Size	mm	25		
Atc Tools				
Tools Capacity	pcs	24		
Max. Tool length	mm	350		
others				
weight	kg	19,500		
machine dim.	mm	8530(9530)(10530)x3600x2725		

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