

Products Guide



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CNC Milling and Tapping Center

Specification	Unit	EZ-5	EZ-5A	EZ-7	EZ-7A
Table size(L×W)	mm	600×400		850×400	
Max. loading capacity	kg	250			
X/Y/Z axis travel	mm	510/400/300	510/400/350	710/400/300	710/400/350
X/Y/Z axis rapid traverse	m/min	60/60/60			
Spindle taper		7/24 Taper No. 30			
Spindle speed	rpm	12,000 (Opt. 20,000 / 24,000)			
Spindle motor	kW	3.7/5.5			
Tool capacity	pc	16 (Opt. 21)	20	16 (Opt. 21)	20

EZ Series

- High speed tool changer
- Tool magazine driven by servo motor
- T-T=0.8 sec (A Type)
- Direct-drive spindle



Specification	Unit	VTX-5	VTX-5A	VTX-7	VTX-7A
Table size(L×W)	mm	600×400		850×400	
Max. loading capacity	kg	250			
X/Y/Z axis travel	mm	510/400/300	510/400/350	710/400/300	710/400/350
X/Y/Z axis rapid traverse	m/min	60/60/60			
Spindle taper		7/24 Taper No. 30			
Spindle speed	rpm	12,000 (Opt. 20,000 / 24,000)			
Spindle motor	kW	3.7/13 (Opt. 3.7/5.5)			
Tool capacity	pc	16 (Opt. 21)	20	16 (Opt. 21)	20

VTX Series

- High speed tool changer
- Roller type guideways
- Direct-drive spindle and powerful motor
- Increased diameter of spindle shaft up to 50mm upgrades cutting rigidity
- The maximum torque of spindle is 82Nm



CNC Milling and Tapping Center with Automatic Pallet Changer

Specification	Unit	QT-II+APC	TMV-510+APC	QVM-610AI
Table size(L×W)	mm	600×360	600×360	710×410
Max. loading capacity	kg	100x2	100x2	400x2
X/Y/Z axis travel	mm	510/360/435	510/360/300	610/410/510
X/Y/Z axis rapid traverse	m/min	40/40/48	40/40/48	36/36/30
Spindle taper		7/24 Taper No. 30	7/24 Taper No. 30	7/24 Taper No. 40
Spindle speed	rpm	15,000	8,000 (Opt.4,000/12,000)	8,000 (Opt. 10,000)
Spindle motor	kW	2.2/1.5	3.7/1.1 (Opt. 5.5/3.7)	7.5/5.5 (Opt. 9/7.5)
Tool capacity	pc	20	10 (Opt. 14)	24

QVM-610AI

- Moving column design
- Twin pallet design creates higher production efficiency.
- Reducing non-cutting time



Vertical Machining Center

Specification	Unit	VP-6	VP-8	VP-10
Table size(L×W)	mm	700×410	900×510	1,070×510
Max. loading capacity	kg	350	500	
X/Y/Z axis travel	mm	610/410/510	820/510/535	1,020/510/600
X/Y/Z axis rapid traverse	m/min	48/48/48	48/48/36	36/36/36
Spindle taper		7/24 Taper No. 40		
Spindle speed	rpm	12,000	10,000 (Opt. 15,000)	
Spindle motor	kW	5.5/7.5/11	7.5/11 (Opt. 7.5/11/15)	
Tool capacity	pc	24	24 (Opt. 30)	

VP Series

- VP series offers excellent Cost-Performance ratio.
- High quality direct-drive spindle and high rigidity structure design.
- BBT dual-contact tool holder
- High standard of accuracy to achieve good cutting performance.
- Designed for various industries.



Specification	Unit	TMV-720A	TMV-850A [TMV-1050A]	TMV-850AI [TMV-1050AI]	TMV-850Q [TMV-1050Q]	TMV-850QII [TMV-1050QII]
Table size(L×W)	mm	800×480	950 [1,100]×500	950 [1,100]×600	950 [1,100]×500	950 [1,100]×600
Max. loading capacity	kg	500	800	800	800	800
X/Y/Z axis travel	mm	720/480/530	850[1,050]/500/530	850[1,050]/600/530	850[1,050]/500/530	850[1,050]/600/530
X/Y/Z axis rapid traverse	m/min	48/48/48	36/36/36			48/48/48
Spindle taper		7/24 Taper No.40	7/24 Taper No.40			
Spindle speed	rpm	8,000 (Opt. 10,000)	Belt type 8,000 (Opt. 10,000 / Direct drive type 12,000)			
Spindle motor	kW	7.5/5.5	7.5/5.5 (Opt. 9/7.5, 15/11)			
Tool capacity	pc	24	24			



Specification	Unit	TMV-920A	TMV-1100A	TMV-1350A	TMV-1600A
Table size(L×W)	mm	1,000×530	1,200×600	1,500×750	1,700×850
Max. loading capacity	kg	800	800	1,300	2,000
X/Y/Z axis travel	mm	920/530/530	1,100/600/530	1,350/750/700	1,600/800/700
X/Y/Z axis rapid traverse	m/min	30/30/24		20/20/15	15/15/12
Spindle taper		7/24 Taper No.40/No.50		7/24 Taper No.50	7/24 Taper No.50
Spindle speed	rpm	BT-40 : 8,000 (Opt. 5,000/7,000/10,000) BT-50 : 3,500 (Opt. 6,000)		Belt-driven type 3,500 (Opt. 6,000) (Opt. Belt-driven with gear box 3,500/6,000)	
Spindle motor	kW	BT-40 : 9/7.5 (Opt. 15/11), BT-50 : 15/11		15/11	15/11 (Opt. 18.5/15)
Tool capacity	pc	24		BT40 : 40 / BT50 : 24 (Opt. 32)	32 (Opt. 40)

TMV Series

- TMV series is the most popular machine model.
- High rigid structure
- High precision linear guideways and ballscrews.
- Fast and stable machining performance.
- The TMV series is suitable for mass production lines and automatic production.

Specification	Unit	FV-171	FV-236
Table size (L×W)	mm	1,630×540×2	
C axis table size	mm	Ø350×2	Ø220×4
C axis max. loading capacity	kg	60×2	60×4
X/Y/Z axis travel	mm	710/460/460	300(±150)/460/460
X/Y/Z axis rapid traverse	m/min	75/75/75	
Spindle taper		7/24 Taper No.40	
Spindle speed	rpm	12,000	
Spindle motor	kW	15/11/7.5	
Tool capacity	pc	24	48

FV Series

- Gantry type structure
- High speed, high efficiency, high productivity, and process integration.
- Including single-spindle and twin-spindle types.
- FV series standard equips with Automatic Pallet Changer system.
- Various types of tables can be chosen,including A/C axis table, A axis table, and standard table.



Vertical Machining Center for High Speed Contouring

Specification	Unit	VC-608	VC-610	VC-711
Table size (L×W)	mm	950×600	1,100×600	1,200×710
Max. loading capacity	kg	500		
X/Y/Z axis travel	mm	850/610/530	1,050/610/530	1,100/710/710
X/Y/Z axis rapid traverse	m/min	24/24/24		
Spindle taper		7/24 Taper No.40		
Spindle speed	rpm	Direct drive 12,000 (Opt. 15,000) (Opt. Built-in type 20,000)		
Spindle motor	kW	11/7.5(Opt. 15/11/7.5, 40/30)		
Tool capacity	pc	24 (Opt. 30)		

VC-Series

- High dynamic rigidity and stable structure design.
- The spindle is equipped with oil-air lubricated bearings and oil-cooling cartridge.
- High-speed & High accuracy control.
- BBT dual-contact tool holder.
- VC series meets your demands for die & mold machining of automotive, mechanic and electronic industries.



Specification	Unit	MDV-812	MDV-1013
Table size (L×W)	mm	1,320×800	1,400×1,000
Max. loading capacity	kg	2,000	2,500
X/Y/Z axis travel	mm	1,200/800/500	1,320+272/1,040/610
X/Y/Z axis rapid traverse	m/min	30/30/30	30/30/24
Spindle taper		7/24 Taper No.40	
Spindle speed	rpm	Direct drive type 12,000 (Opt. 15,000)(Opt. Built-in type 2,000)	
Spindle motor	kW	11/7.5(Opt. 15/11/7.5, 40/30)	
Tool capacity	pc	16 (Opt. 40)	20 (Opt. 30/40)

MDV Series

- High rigidity double column structure design ensures accuracy and stability during high speed machining.
- High accuracy and high rigidity machine.
- Designed for die & mold industry and are also extensively applied to automotive, aerospace and 3C industries.



Five-Axis Vertical Machining Center

Specification	Unit	MDV-551-5AXII	CT-350
Table size	mm	Ø500	Ø350
Max. loading capacity	kg	400	200
X/Y/Z axis travel	mm	510/530/450	400/510/510
A/C axis travel	deg	+30° ~ -120° / 360°	
X/Y/Z axis rapid traverse	m/min	48/48/48	36/36/30
A/C axis rapid traverse	rpm	30/50 (Roller gear)	33.3/40
Spindle taper		7/24 Taper No.40	
Spindle speed	rpm	Built-type 15,000 (Opt. 20,000)	
Spindle motor	kW	40/40 (Opt. 40/30)	7.5/11/15 (Opt. 7.5/27.5)
Tool capacity	pc	16 (Opt. 30/60)	24 (Opt. 30/40)

CT-350

- Standard equipped with roller gear cam type A/C axis table allows zero-backlash and high rigidity.
- CT series is able to process complicated precision parts machining for industries.
- Effective for reducing set-up times and improving efficiency.
- Excellent performance with high precision and affordable price.



Specification	Unit	GT-630	GT-800
Table size	mm	Ø630	Ø800
Max. loading capacity	kg	600	1000
X/Y/Z axis travel	mm	760/820/560	850/1,020/610
A/C axis travel	deg	+30° ~ -120°	
X/Y/Z axis rapid traverse	m/min	48/48/48	
A/C axis rapid traverse	rpm	30/50 (DD motor)	16/30 (DD motor 16/50)
Spindle taper		7/24 Taper No.40	
Spindle speed	rpm	Built-type 15,000 (Opt. 20,000)	
Spindle motor	kW	40 (Opt. 40/30)	
Tool capacity	pc	32 (Opt. 40/64/80)	

GT Series

- Gantry type structure
- Driven at the centers of gravity
- An enclosed structure design enhances complete structure rigidity.
- X/Y/Z axis moving and table rotation are working individually to make sure machining is free from 3 axis inertia influences.
- Spindle is equipped with oil-air lubricated bearings and oil-cooling cartridge.





Horizontal Machining Center

Specification	Unit	TMH-400	TMH-500
Table size (L×W)	mm	Ø400	Ø500
Max. loading capacity	kg	350	700
X/Y/Z axis travel	mm	510/510/510	710/600/600
X/Y/Z axis rapid traverse	m/min	36/36/36	48/48/48
Spindle taper		7/24 Taper No.40	7/24 Taper No.50
Spindle speed	rpm	8,000 (Opt. 10,000 , 12,000)	3,500 (Opt. 6,000)
Spindle motor	kW	11/7.5	15/11
Tool capacity	pc	24 (Opt. 30)	24

Specification	Unit	SH-4000(P)	SH-4500(P)	SH-5000(P)
Table size (L×W)	mm	400×400	400×400 (Opt. 500×500)	500×500
Max. loading capacity	kg	400×2	450 (×2)	500×2
X/Y/Z axis travel	mm	510/510/510	630/630/730	730/730/830
X/Y/Z axis rapid traverse	m/min		60/60/60	
Spindle taper			7/24 Taper No.40	
Spindle speed	rpm		15,000	
Spindle motor	kW		37/26/18.5	
Tool capacity	pc		40 (Opt. 60)	

Specification	Unit	HA-400II	HA-500II
Table size(L×W)	mm	400×400	500×500
Max. loading capacity	kg	400×2	500×2
X/Y/Z axis travel	mm	610/580/580	710/680/680
X/Y/Z axis rapid traverse	m/min		60
Spindle taper			7/24 Taper No.40
Spindle speed	rpm		Built-in type 12,000
Spindle motor	kW		25/22
Tool capacity	pc		60 (Opt. 90, 120)

Specification	Unit	HB-500II	HB-630	HB-800II
Table size (L×W)	mm	500×500	630×630	800×800
Max. loading capacity	kg	600×2	1,200×2	1,800×2
X/Y/Z axis travel	mm	800/710/710	1,050/850/970	1,400/1,200/1,300
X/Y/Z axis rapid traverse	m/min	60		50
Spindle taper			7/24 Taper No.50	
Spindle speed	rpm	Built-in type 10,000	Built-in type 10,000(Opt. Gear type 6,000)	
Spindle motor	kW		30/25	
Tool capacity	pc		60 (Opt. 90, 120)	

Specification	Unit	TFH-100M	TFH-240ABP
Table size (L×W)	mm	Ø650×H300	(Ø380×H200×2)×2
Max. loading capacity	kg	300	(100×2)×2
X/Y/Z axis travel	mm	530/560+200/530	400/500+275/425
X/Y/Z axis rapid traverse	m/min	62/62/62	65/70/70
Spindle taper		HSK-A63	HSK-A63
Spindle speed	rpm	15,000	18,000
Spindle motor	kW	37/18.5	85
Tool capacity	pc	25	36×2
APC speed (C/AV/Q)	rpm	-	100/50/18

HTH-800

- High torque 5-axis machining performances.
- Shuttle type automatic pallet changer (APC) design. High structure rigidity
- Box-way with air-floating Gear box type high torque spindle (1,300 Nm).
- Especially fit for engine casing and turbine blade machining in the aerospace industry.



Specification	Unit	HTH-800
Table size (L×W)	mm	800×800
Max. loading capacity	kg	2400
X/Y/Z axis travel	mm	1550×1500×1250
X/Y/Z axis rapid traverse	m/min	10
Spindle taper		7/24 Taper No.50
Spindle speed	rpm	8000
Spindle motor	kW	22/26
Tool capacity	pc	60 (Opt. 90/120)

TMH Series

- Machine design allows chip conveyor adjustment for either rear or side exit suitable for any production line design.
- High precision NC Index includes eight oil tube joiners and one air pressure check/control available for hydraulic jigs.
- Machine adapts high torque motor. It can completely display the advantage of spindle and obtain high efficiency.



SH Series

- Machine bed adopts 3-point support structure
- Minimized machine width design
- Automatic pallet changer system is available as an option
- High accuracy, high rigidity and high power machine
- SH series is developed for high efficiency machining, especially in aluminum parts machining



HA Series

- Machine bed adopts 3-point support structure
- Automatic pallet changer system
- High accuracy, high rigidity and high power machine
- Full-circle hydraulic braking system
- HA series is developed for high efficiency machining industries, especially in automotive industry.



HB Series

- High torque spindle with gear box design
- Automatic pallet changer system
- High accuracy, high rigidity and high power machine.
- Flexible Manufacturing System is available as an option.
- HB series is developed for high efficiency machining, especially in the heavy duty cutting in cast iron or steel materials.



TFH Series

- 5-axis machining
- Including single-spindle and twin-spindle types.
- The TFH series is suitable for mass production lines and automatic production by robot.
- TFH series is developed for high efficiency machining, especially in aluminum parts machining.



HTT-1250

- High torque 5-axis machining performances.
- Shuttle type automatic pallet changer (APC) design.
- High structure rigidity
- Box-way with air-floating Gear box type high torque spindle (1,300 Nm).
- Especially fit for engine casing and turbine blade machining in the aerospace industry.



Specification	Unit	HTT-1250
Table size (L×W)	mm	1,250×1,250
Max. loading capacity	kg	4,000×2
X/Y/Z axis travel	mm	2,000/1,800/1,250
X/Y/Z axis rapid traverse	m/min	10
Spindle taper		7/24 Taper No.50
Spindle speed	rpm	6,000 (Opt. 8,000)
Spindle motor	kW	21.5/18.5 (Opt. 22/26)
Tool capacity	pc	60 (Opt. 90, 120)



Horizontal Boring and Milling Machine

TBT-130H

- Column with symmetrically box structure and double-wall design 4-face contact design in spindle and column.
- All sliding surfaces adopt air-floating design. It has the feature of low friction and is able to improve the positioning and repetition accuracy in table and saddle.
- TBF series is developed for energy and shipbuilding industry.



Specification	Unit	TBT-130H
Quill diameter	mm	Ø130
Table size (L×W)	mm	1,600×1,800
Max. loading capacity	kg	15,000 (Opt. 20,000, 25,000)
X axis travel	mm	3,000
Y axis travel	mm	1,800 (Opt. 2,300)
Z axis travel	mm	1,600 (Opt. 2,000)
W axis travel	mm	700
X/Y/Z/W axis rapid traverse	m/min	12
Spindle taper		BT-50 (Opt. BBT-50)
Spindle speed	rpm	2,500
Spindle motor (S1/S3 60%/S3 25%)	kW	22/26/35 (Opt. 30/37/45)
Max. spindle motor load	kg	12,000
Tool capacity	pc	60 (Opt. 90/120)



CNC Lathe

Specification	Unit	Q5	A1500
Chuck O.D.	inch	5" (Opt. 4")	6" (Opt. 8")
Bar capacity	mm	Ø26	Ø44 (Opt. Ø51)
X/Z axis stroke	mm	220/220	320/400
X/Z axis rapid traverse	m/min	30/30	30/30
Spindle nose		A2-4	A2-5 (Opt. A2-6)
Spindle speed	rpm	6,000 (Opt. 8,000)	4,800 (Opt. 4,500)
Spindle motor	kW	5.5/3.7	12/11/7.5
Tool capacity	pc	4~6	2~5

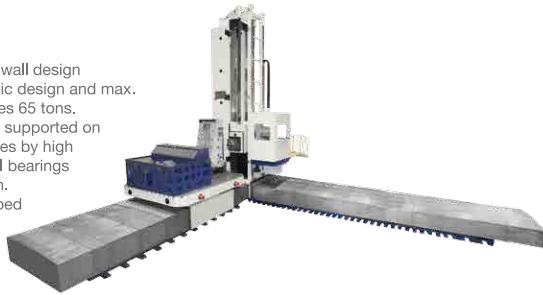
Specification	Unit	HS-22	HS-22M
Chuck O.D.	inch		6" (Opt. 8")
Bar capacity	mm		Ø26 (Ø44/Ø51)
X/Z axis travel	mm		155/220
X/Z axis rapid traverse	m/min		20/20 (Opt. linear guide 24/30)
Spindle nose			A2-5 (Opt. A2-6/A2-6)
Spindle speed	rpm		6,000 (Opt. 4,800/4,500)
Spindle motor	kW		11/7.5
Tool capacity	pc		12 (Opt. 8)

Specification	Unit	TNL-100T[L]	TNL-120T[L]	TNL-130T[L]
Chuck O.D.	inch	8" (Opt. 10")	10" (Opt. 12")	10" (Opt. 12")
Bar capacity	mm	Ø51	Ø64	Ø74
X/Z axis travel	mm		200/400[600]	
X/Z axis rapid traverse	m/min		24/30	
Spindle nose		A2-6		A2-8
Spindle speed	rpm	3,000 (Opt. 4,500)		2,500 (Opt. 3,000)
Spindle motor	kW	9/7.5 [15/11]		15/11
Tool capacity	pc		12 (Opt. 8)	

Specification	Unit	MT-1500[M]	MT-2000[M]
Chuck O.D.	inch	6"	8"
X/Z axis travel	mm	155/155	155/155
X/Z axis rapid traverse	m/min	30/30	30/30
Spindle nose		A2-5	A2-6
Spindle speed	rpm	4,500 (Opt. 6,000)	4,500 (Opt. 3,000)
Spindle motor	kW	11/7.5/5.5	15/11/7.5
Tool capacity	pc	12 (Opt. 8)	12 (Opt. 8)

TBF-160

- Column with double-wall design
- B axis with hydrostatic design and max. load capacity achieves 65 tons.
- The milling spindle is supported on the front and rear sides by high accuracy angular ball bearings with oil-air lubrication.
- TBF series is developed for energy and shipbuilding industry.



Specification	Unit	TBF-160
Quill diameter	mm	Ø160
Table size (L×W)	mm	No.1 table 3,000×3,500/No.2 table 2,500×3,000
Max. loading capacity	kg	No.1 table 65,000/No.2 table 40,000
X axis travel	mm	5,000-25,000
Y axis travel	mm	3,000(Opt. 4,000, 5000)
Z axis travel	mm	1,200
W axis travel	mm	1,000
X/Y/Z/W axis rapid traverse	m/min	20/20/20/20
Spindle taper		7/24 Taper No.50
Spindle speed	rpm	3,500
Spindle motor	kW	60
Tool capacity	pc	60 (Opt. 90, 120)

A1500

- Gang type CNC lathe
- Small footprint
- Suitable for mass production
- Automation solutions are available for shortening idle time and saving human costs.
- The various tool holders design allows to process rapid tool changing.



HS-22

- Designed for small and medium part machining.
- Full box-way design and a high rigidity saddle structure.
- The power turret and C axis are available for the needs of multi-task machining.



TNL T Series

- High rigidity integrated machine structure design.
- Vertical type machine bed makes the chip flow easier.
- Plus high rigidity slide structure design adapts heavy duty cutting.
- The close proximity of the operator to the vertical machine bed design facilitates workpiece loading/unloading and tool adjustments.



MT Series

- Dual-spindle with dual-spindle design for improving production efficiency.
- One machine can be finished all machining tasks, which are need to finish by 2 machines in originally.
- Standard equipped with automatic robotic arm.





CNC Lathe

Specification	Unit	TC-1500	TC-2000 [1]	TC-2500 [1]
Chuck O.D.	inch	6"	8"	10" (Opt. 12")
Bar capacity	mm	Ø44	Ø51	Ø64/Ø74
X/Z axis travel	mm	170/400	170/400 [600]	
X/Z axis rapid traverse	m/min	30/30	30/30	
Spindle nose		A2-5	A2-6	A2-8
Spindle speed	rpm	4,800	4,500 (Opt. 3,000)	2,500 (Opt. 3,500)
Spindle motor	kW	9/7.5	15/11	
Tool capacity	pc	12 (Opt. 8)	12 (Opt. 8)	

TC Series

- High rigidity structure
- High efficiency turning performance
- Non-cutting time is decreased because of quick tool changing on servo driven turret.
- TC series is your best choice of CNC lathe for high rigidity, high efficiency and high cost-performance ratio.



TNL Series

- Box-way and high stable spindle design
- Preloaded angular thrust bearings and double-raw roller bearing for excellent spindle rigidity.
- Spindle gear box with deceleration system provides high torque in low spindle speed.

Specification	Unit	TNL-130AL [1.6M/11]	TNL-160AL [1.6M/16]
Chuck O.D.	inch	10" (Opt. 12")	12" (Opt. 15")
Bar capacity	mm	Ø75	Ø90
X/Z axis travel	mm	245/1,000 [1,600/2,000]	275/1,000 [1,600/2,000]
X/Z axis rapid traverse	m/min	18/20	18/20
Spindle nose		A2-8	A2-8
Spindle speed	rpm	3,500 (Opt. 2,500)	2,500
Spindle motor	kW	18.5/15	26/22
Tool capacity	pc	12	12

Specification	Unit	THL-620	THL-620L	THL-620XL
Chuck O.D.	inch	15" (Opt. 18")		
Bar capacity	mm	Ø90 (Opt. Ø116)		
X/Z axis travel	mm	365/1,200	365/2,000	365/3,000
X/Z axis rapid traverse	m/min	20/20		
Spindle nose		A2-11		
Spindle speed	rpm	2,500 (Opt. 2,000)		
Spindle motor	kW	37/30		
Tool capacity	pc	12		

THL Series

- High rigidity box-way structure
- The maximum spindle torque reaches 1477 Nm by using 37 kw spindle motor and dual speed gear box.



Specification	Unit	TA-20/20M [103/20MB]	TA-25/25M [25B/25MB]
Chuck O.D.	inch	8"	10"
Bar capacity	mm	Ø51	Ø64
X/Z/B axis travel	mm	260/660/-[700]	260/660/-[700]
X/Z/B axis rapid traverse	m/min	30/30/-[24]	30/30/-[24]
Spindle nose		A2-6	A2-8
Spindle speed	rpm	4,500	3,500
Spindle motor	kW	15/11	15/11
Tool capacity	pc	12 B/H	12 B/H

TA Series

- Symmetrical saddle with 60 degree slant design provides high rigidity structure and decreases the chance of heat distortion.
- Modular structure design for spindle module, turret module, tailstock and sub-spindle.



Multi-tasking Turning Center

Specification	Unit	TD-2000Y[BC]	TD-2500Y[BC]
Chuck O.D.	inch	8" (Opt. 10")	10" (Opt. 12")
Bar capacity	mm	Ø51	Ø64/Ø74
X/Y/Z/B axis travel	mm	230/±51/600/[630]	230/±51/600/[630]
X/Y/Z/B axis rapid traverse	m/min	30/15/30/[30]	30/15/30/[30]
Spindle nose		A2-6	A2-8
Spindle speed	rpm	4,500 (Opt. 3,500/Built-in type 6000)	3,500 (Opt. 2,500/3,500/5,000)
Spindle motor	kW	15/11 (Opt. 18.5/11)	15/11
Sub-spindle chuck O.D.	inch	- [6" (Opt. 8")]	- [6" (Opt. 8")]
Sub-spindle speed	rpm	- [5,000]	- [5,000]
Sub-spindle motor	kW	- [7.5/5.5]	- [7.5/5.5]
Tool capacity	pc	12 (Opt. 16)	12 (Opt. 16)

TD Series

- 75 degree slant bed design keeps the advantages of excellent chip disposal and accessibility.
- Lower gravity center enhances the structure rigidity.
- X/Y/Z axis are perpendicular to each other with a real linear Y axis.



Specification	Unit	TMT2000-T2	TMT2000-T2Y1	TMT2000-T2Y2	TMT2000-T3Y2
Chuck O.D.	inch	8"			
Bar capacity	mm	Ø65 (Opt. Ø51)			
X1/X2/X3 axis travel	mm	230/205/-	230/205/-	230/-/230	230/205/230
Y1/Y2/Y3 axis travel	mm	-	±51/-/-	±51/-/±51	±51/-/±51
Z1/Z2/Z3/B axis travel	mm	600/600/-/680	600/600/-/680	600/-/600/680	440/600/440/680
X/Y/Z/B axis rapid traverse	m/min	30/-/36/30	30/15/36/30	30/15/36/30	30/15/36/30
Spindle nose		A2-6			
Spindle speed	rpm	4,500			
Spindle motor	kW	15/11			
Sub-spindle chuck O.D.	inch	8"			
Sub-spindle speed	rpm	6,000			
Sub-spindle motor	kW	18.5/11			
Tool capacity	pc	12×2 (Opt. 16)			

TMT Series

- X/Y/Z axis adopts symmetrical saddle design for ensuring excellent positioning accuracy.
- The modular design with main spindle and sub-spindle plus two or three turrets with Y axes allows most complex parts to be finished in one machine setup.
- Automation is easily accomplished by a bar feeder or a robotic arm with part storage.
- The multitasking machine functions including turning, milling and even off-center machining plus automation make long-term manless operations possible and guarantee best return on investment.



Vertical CNC Lathe

Specification	Unit	TVL-40 [14]	TVL-40 [18]
Chuck O.D.	inch	12" (Opt. 15")	
Max. swing diameter	mm	Ø700	
X/Z axis travel	mm	285/390 (Opt. 500/600)	
X/Z axis rapid traverse	m/min	20/24 [Opt. box way 16/16]	
Spindle nose		A2-8	
Spindle speed	rpm	2,250	
Spindle motor	kW	22/18.5	
Tool capacity	pc	8	

TVL Series (Left side of spindle)

- Excellent heat dissipation during long-term heavy duty cutting.
- Single piece bed enhances vibration absorption to keep high rigidity and high precision.
- The close proximity of the operator to the vertical machine bed design facilitates workpiece loading/unloading, tool adjustments and better chip flow.



Inverted Vertical CNC Lathe

Specification	Unit	TGL-15	TGL-20	TGL-30
Chuck O.D.	inch	6"(Opt. 8")	8"(Opt. 10")	10" (Opt. 12")
Max. swing diameter	mm	Ø300	Ø450	Ø650
X/Z axis travel	mm	180+120/260	260+1,050/370	300+1,660/600
X/Z axis rapid traverse	m/min	30/30	30/30	30/30
Spindle nose		A2-5	A2-6	A2-8
Spindle speed	rpm	4,500	4,500	3,500
Spindle motor	kW	7.5/5.5	18.5/11	30/22
Tool capacity	pc	12	12	12

TGL Series

- Symmetrical spindle decreases the heat distortion with a built-in high precision motor.
- Vertical spindle with X and Y axis functions allow coordination with loading unit and chunk to better automate the workpiece loading/unloading.
- Soft-claw easy grip forming function.



Vertical CNC Lathe for Wheel Machining

Specification	Unit	TVW-22DT	TVW-22T	TVW-26DT	TVW-26T	TVW-28DT	TVW-28T
Wheel size	inch	22"		14"~24.5"		14~28"	
Spindle nose		A2-11		A2-11		A2-11	
Spindle speed	rpm	2,500		2,000		2,000	
Spindle bearing dia.	mm	Ø160		Ø160		Ø160	
Tool capacity	pc	6+6	6	6+6	6	6+6	6
X/Z axis travel	mm	450/450		500/525		540/750	
X/Z axis rapid traverse	m/min	20/20		20/20		20/20	
Spindle motor	kW	55/45	45/37	50/45	45/37	75/60	45/37

TVW Series

- Especially designed for wheel machining
- High rigidity, high efficiency, and high stability
- High power spindle motor improves machining efficiency.
- Suitable for various wheel production lines.



Horizontal CNC Lathe for Wheel Machining

Specification	Unit	HS-36W	HS-40W	HS-40WG
Wheel size	inch	20"	20"~24"	
Spindle size		A2-11	A2-11	
Spindle speed	rpm	20~2,000	20~2,000	
Spindle bearing dia.	mm	Ø160	Ø160	
Tool capacity	pc	10	8	
X/Z axis stroke	mm	350/740	385/750	
X/Z axis rapid traverse	m/min	16/20	16/20	
Spindle motor	kW	30/37	37/30	37/45

HS Wheel Series

- High rigidity structure design ensures high precision machining performance
- Built-in type spindle design.
- High machining stability assures high accuracy.
- Suitable for various wheel production lines.



Vertical Machining Center for Wheel Machining

Specification	Unit	TMV-850W	TMV-1050W	TMV-1100W
Wheel size	inch	14"~22"		14"~26"
Spindle nose		Taper 7/24 No.40		
Spindle speed	rpm	8,000 (Opt. 10,000)		
Tool capacity	pc	24		
X/Y/Z axis stroke	mm	8500/650/610	1,050/650/610	1,100/762/710
X/Y/Z axis rapid traverse	m/min	48/48/48		30/30/30
Spindle motor	kW	15/11		

TMV Wheel Series

- Designed for wheel machining. 4th axis is available for different wheel machining requirements
- Excellent chip disposal design

