



High Quality , High Efficiency

VERTICAL MACHINING CENTER



CE

Linear Guideway Series

SHV-800

X axis 800mm / Y axis 500mm / Z axis 580mm



Specifications

MODEL	UNIT	SHV-550	SHV-800
3- Axes travel		Linear Guideway Series	Linear Guideway Series
X axis travel	mm	550	800
Y axis travel	mm	400	500
Z axis travel	mm	460	580
Distance from spindle nose to table surface	mm	120-580	120-700
TABLE			
Table area	mm	650 x 410	900 x 500
Max. load table	kgs	250	500
T-slot	mm	3 x 14 x 100	5 x 18 x 100
Pallet changing time	sec	—	—
Pallet exchange method		—	—
SPINDLE			
Spindle taper	type	BT-40	BT-40
Belt type	rpm	10000	10000
Direct drive - opt.	rpm	10000 / 12000 / 15000	10000 / 12000 / 15000
Spindle motor	kw	5.5 / 7.5	5.5 / 7.5
Spindle cooling	type	oil cooler	oil cooler
FEED RATE			
Rapid traverse (X, Y,Z)	m/min	36 / 36 / 36	30 / 30 / 24
Cutting feed rate	mm/min	1-15000	1-15000
X, Y, Z axis servo motor (FANUC)	kw	1.2 / 1.2 / 3.0	1.2 / 1.8 / 3.0
X, Y, Z axis servo motor (MITSUBISHI)	kw	1.5 / 1.5 / 2	1.5 / 1.5 / 2
ATC			
Magazine type	type	Arm	Arm
Tool magazine capacity	pcs	24	24
Max. tool diameter	mm	75 / 150	75 / 150
Max. tool length	mm	200	250
Max. tool weight	kgs	7	7
Tool selection	type	Random	Random
OTHER			
Power consumption	KVA	20	20
Floor space (L x W x H)	mm	2400 x 2450 x 2650	2450 x 2570 x 2800
Machine weight	kgs	3400	4500

Design and specifications are subject to change without prior notice.

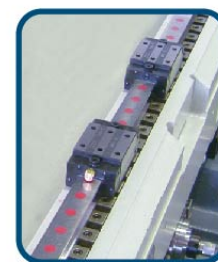
Linear Guideway Series

SHV-1020

X axis 1020mm / Y axis 550mm / Z axis 580mm



Ball type (std.)



Roller type (opt.)

Specifications

MODEL	UNIT	SHV-1020
3- Axes travel		Linear Guideway Series
X axis travel	mm	1020
Y axis travel	mm	550
Z axis travel	mm	580
Distance from spindle nose to table surface	mm	120-700
TABLE		
Table area	mm	1190 x 550
Max. load table	kgs	800
T-slot	mm	4 x 18 x 125
SPINDLE		
Spindle taper	type	BT-40
Belt type	rpm	10000
Direct drive - opt.	rpm	10000 / 12000 / 15000
Spindle motor	kw	7.5 / 11
Spindle cooling	type	oil cooler
FEED RATE		
Rapid traverse (X, Y, Z)	m/min	30 / 30 / 24
Cutting feed rate	mm/min	1-15000
X, Y, Z axis servo motor (FANUC)	kw	1.8 / 1.8 / 3.0
X, Y, Z axis servo motor (MITSUBISHI)	kw	3.5 / 3.5 / 3.5
ATC		
Magazine type	type	Arm
Tool magazine capacity	pcs	24
Max. tool diameter	mm	75 / 150
Max. tool length	mm	250
Max. tool weight	kgs	7
Tool selection	type	Random
OTHER		
Power consumption	KVA	20
Floor space (L x W x H)	mm	3450 x 2650 x 2850
Machine weight	kgs	6800

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Linear Guideway Series

SHV-1100

X axis 1100mm / Y axis 650mm /
Z axis 610mm (810mm opt.)



SHV-1200

X axis 1200mm / Y axis 650mm /
Z axis 610mm (810mm opt.)



Specifications

MODEL	UNIT	SHV-1100	SHV-1200
3- Axes travel		Linear Guideway Series	
X axis travel	mm	1100	1200
Y axis travel	mm	650	650
Z axis travel	mm	610	810(BT40) - opt. / 720(BT50) - opt.
Distance from spindle nose to table surface	mm	120-730	120-930 / 150-870
TABLE			
Table area	mm	1250 x 630	1350 x 630
Max. load table	kgs	800	800
T-slot	mm	5 x 18 x 100	5 x 18 x 100
SPINDLE			
Spindle taper	type	BT-40 (BT-50 opt.)	BT-40 (BT-50 opt.)
Belt type	rpm	10000	10000
Direct drive - opt.	rpm	10000 / 12000 / 15000	10000 / 12000 / 15000
Spindle motor	kw	7.5 / 11	7.5 / 11
Spindle cooling	type	oil cooler	oil cooler
FEED RATE			
Rapid traverse (X, Y, Z)	m/min	30 / 30 / 24	30 / 30 / 24
Cutting feed rate	mm/min	1-15000	1-15000
X, Y, Z axis servo motor (FANUC)	kw	3 / 3 / 3	3 / 3 / 3
X, Y, Z axis servo motor (MITSUBISHI)	kw	3.5 / 3.5 / 3.5	3.5 / 3.5 / 3.5
ATC			
Magazine type	type	Arm	Arm
Tool magazine capacity	pcs	24	24
Max. tool diameter	mm	75 / 150	75 / 150
Max. tool length	mm	250	250
Max. tool weight	kgs	7	7
Tool selection	type	Random	Random
OTHER			
Power consumption	KVA	20	20
Floor space (L x W x H)	mm	3750 x 2600 x 2950	3750 x 2600 x 2950
Machine weight	kgs	7300	7800

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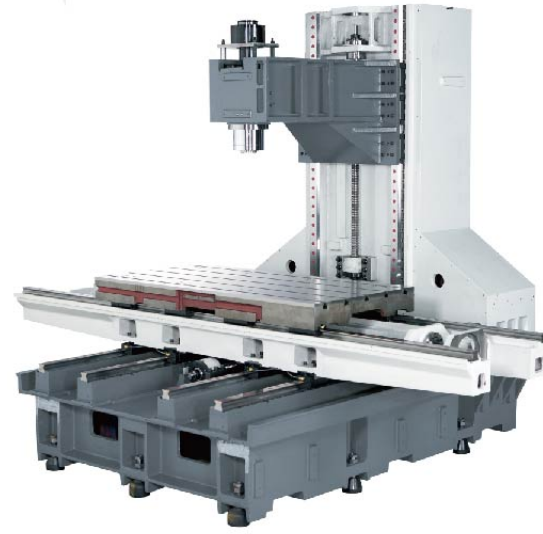
Linear Guideway Series

SHV-1300

X axis 1300mm / Y axis 750mm / Z axis 700mm (850 opt.)

SHV-1500

X axis 1500mm / Y axis 750mm / Z axis 700mm (850 opt.)



Rear Chip Conveyor

SHV-1600

X axis 1600mm / Y axis 750mm / Z axis 700mm (850 opt.)



Specifications

MODEL	UNIT	SHV-1300	SHV-1500	SHV-1600
3- Axes travel		Linear Guideway Series	Linear Guideway Series	Linear Guideway Series
X axis travel	mm	1300	1500	1600
Y axis travel	mm	750	750	750
Z axis travel	mm	700 (850 opt.)	700 (850 opt.)	700 (850 opt.)
Distance from spindle nose to table surface	mm	150-850 (150-1000 opt.)	100-800 (100-950 opt.)	100-800 (100-950 opt.)
TABLE				
Table area	mm	1300 x 750	1550 x 750	1650 x 750
Max. load table	kgs	1000	1000	1200
T-slot	mm	5 x 18 x 150	5 x 18 x 150	5 x 18 x 150
SPINDLE				
Spindle taper	type	BT-40 (BT-50 opt.)	BT-40 (BT-50 opt.)	BT-40 (BT-50 opt.)
Belt type	rpm	10000	10000	10000
Direct drive - opt.	rpm	10000 / 12000 / 15000	10000 / 12000 / 15000	10000 / 12000 / 15000
Spindle motor	kw	11 / 15	11 / 15	11 / 15
Spindle cooling	type	oil cooler	oil cooler	oil cooler
FEED RATE				
Rapid traverse (X, Y, Z)	m/min	24 / 24 / 24	24 / 24 / 24	24 / 24 / 24
Cutting feed rate	mm/min	1-15000	1-15000	1-15000
X, Y, Z axis servo motor (FANUC)	kw	4 / 4 / 7	4 / 4 / 7	4 / 4 / 7
X, Y, Z axis servo motor (MITSUBISHI)	kw	4.5 / 4.5 / 7	4.5 / 4.5 / 7	4.5 / 4.5 / 7
ATC				
Magazine type	type	Arm	Arm	Arm
Tool magazine capacity	pcs	24	24	24
Max. tool diameter	mm	75 / 150	75 / 150	75 / 150
Max. tool length	mm	300	300	300
Max. tool weight	kgs	7	7	7
Tool selection	type	Random	Random	Random
OTHER				
Power consumption	KVA	30 (40 opt.)	30 (40 opt.)	30 (40 opt.)
Floor space (L x W x H)	mm	4680 x 4070 x 2970	4680 x 4070 x 2970	4680 x 4070 x 2970
Machine weight	kgs	9000	10000	11000

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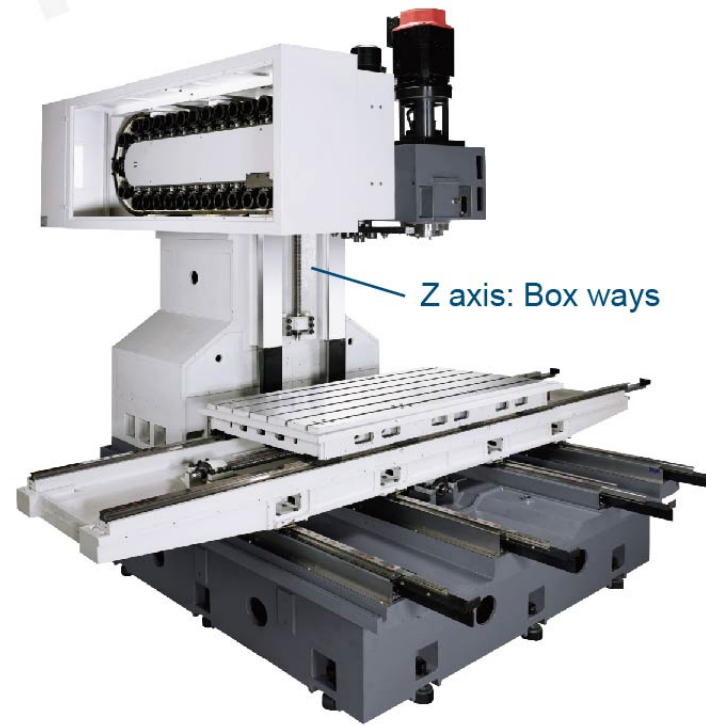
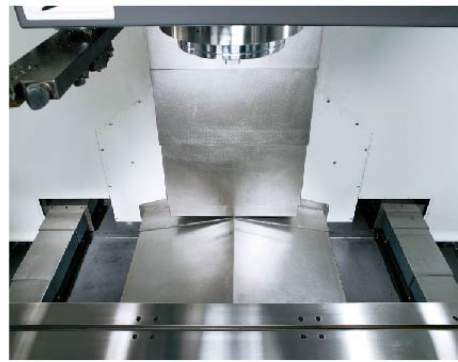
Linear Guideway Series

SHV-1800

X axis 1800mm / Y axis 900mm /
Z axis 750mm (1000mm opt.)

SHV-2000

X axis 2000mm / Y axis 900mm /
Z axis 750mm (1000mm opt.)



Specifications

MODEL	UNIT	SHV-1800	SHV-2000		
3- Axes travel		Linear Guideway (X/Y) + Box Way (Z)			
X axis travel	mm	1800	2000		
Y axis travel	mm	900	900		
Z axis travel	mm	750 (1000 opt.)	750 (1000 opt.)		
Distance from spindle nose to table surface	mm	150-900 (150-1150 opt.)	150-900 (150-1150 opt.)		
TABLE					
Table area	mm	1850 x 900	2050 x 900		
Max. load table	kgs	2500	3000		
T-slot	mm	6 x 18 x 145	6 x 18 x 145		
SPINDLE					
Spindle taper	type	BT-50	BT-50		
Belt type	rpm	6000	6000		
Direct drive - opt.	rpm	10000	10000		
Spindle motor	kw	15 / 18.5	15 / 18.5		
Spindle cooling	type	oil cooler	oil cooler		
FEED RATE					
Rapid traverse (X, Y, Z)	m/min	20 / 20 / 15	20 / 20 / 15		
Cutting feed rate	mm/min	1-10000	1-10000		
X, Y, Z axis servo motor (FANUC)	kw	7 / 7 / 7	7 / 7 / 7		
X, Y, Z axis servo motor (MITSUBISHI)	kw	7 / 7 / 7	7 / 7 / 7		
ATC					
Magazine type	type	Arm	Chain type (opt.)	Arm	Chain type (opt.)
Tool magazine capacity	pcs	24	32	24	32
Max. tool diameter	mm	110/220	125/250	110/220	125/250
Max. tool length	mm	300	300	300	300
Max. tool weight	kgs	15	15	15	15
Tool selection	type	Random	Random	Random	Random
OTHER					
Power consumption	KVA	40	40	40	40
Floor space (L x W x H)	mm	5710 x 4450 x 3350	5710 x 4450 x 3350	5710 x 4450 x 3350	5710 x 4450 x 3350
Machine weight	kgs	17500	17500	18500	18500

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Box Way Series

SMV-1100

X axis 1100mm / Y axis 600mm / Z axis 600mm

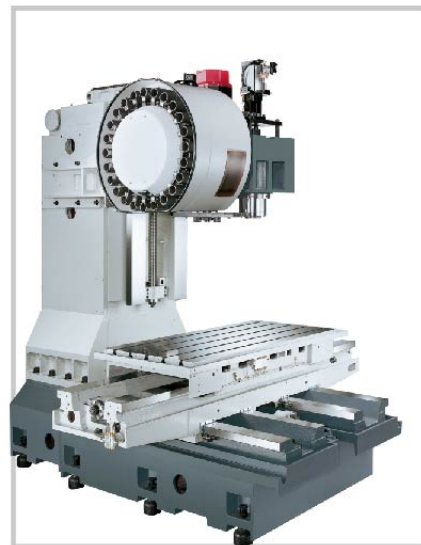
SMV-1200A

X axis 1200mm / Y axis 650mm / Z axis 600mm



SMV-1400

X axis 1400mm / Y axis 720mm / Z axis 610mm



Specifications

MODEL	UNIT	SMV-1100	SMV-1200A	SMV-1400
3- Axes travel		Box Way	Box Way	Box Way
X axis travel	mm	1100	1200	1400
Y axis travel	mm	600	650	720
Z axis travel	mm	600(120-720*)	600(120-720*)	610(150-760*)
Z axis travel (BT40) - opt.	mm	-	800(120-920*)	700(150-850*)
Z axis travel (BT50 belt type) -opt.	mm	-	720(150-870*)	680(170-850*)
Z axis travel (BT50 gear head) -opt.	mm	-	600(120-720*)	680(150-850*)
TABLE				
Table area	mm	1250 x 650	1350 x 650	1550 x 700
Max. load table	kgs	880	1000	2000
T-slot	mm	5 x 18 x 125	5 x 18 x 125	5 x 18 x 130
SPINDLE				
Spindle taper	type	BT-40	BT-40	BT-40
Spindle speed	rpm	10000	10000	10000
Spindle drive	type	Belt	Belt	Belt
Spindle motor	kw	7.5 / 11	7.5 / 11	11 / 15
Spindle cooling	type	oil cooler	oil cooler	oil cooler
FEED RATE				
Rapid traverse (X, Y, Z)	m/min	18 / 18 / 15	18 / 18 / 15	18 / 18 / 15
Cutting feed rate	mm/min	1-10000	1-10000	1-10000
X, Y, Z axis servo motor (FANUC)	kw	2.5 / 2.5 / 2.5	2.5 / 2.5 / 2.5	3 / 3 / 3
X, Y, Z axis servo motor (MITSUBISHI)	kw	3.5 / 3.5 / 3.5	3.5 / 3.5 / 3.5	3.5 / 3.5 / 3.5
ATC				
Magazine type	type	Arm	Arm	Arm
Tool magazine capacity	pcs	24	24	24
Max. tool diameter	mm	75 / 150	75 / 150	75 / 150
Max. tool length	mm	300	300	300
Max. tool weight	kgs	7	7	7
Tool selection	type	Random	Random	Random
OTHER				
Power consumption	KVA	20	20	30
Floor space (L x W x H)	mm	3470 x 2580 x 2880	3600 x 2580 x 2950	4520 x 3900 x 2845
Machine weight	kgs	7500	8200	11000

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“*” - Distance from spindle nose to table surface

Box Way Series

SMV-1600

X axis 1600mm / Y axis 850mm / Z axis 750mm

SMV-1800

X axis 1800mm / Y axis 850mm / Z axis 750mm



Specifications

MODEL	UNIT	SMV-1600		SMV-1800	
3- Axes travel		Box Way		Box Way	
X axis travel	mm	1600		1800	
Y axis travel	mm	850		850	
Z axis travel	mm	750		750	
Z axis travel (BT40) - opt.	mm	670 (120-790*) opt.		670 (120-790*) opt.	
Z axis travel (BT50 belt type) -opt.	mm	750 (150-900*) str.		750 (150-900*) str.	
Z axis travel (BT50 gear head) -opt.	mm	750 (150-900*) opt.		750 (150-900*) opt.	
TABLE					
Table area	mm	1800 x 850		2000 x 850	
Max. load table	kgs	2000		2500	
T-slot	mm	5 x 18 x 150		5 x 18 x 150	
SPINDLE					
Spindle taper	type	BT-50		BT-50	
Spindle speed	rpm	6000		6000	
Spindle drive	type	Belt	Gear head (opt.)	Belt	Gear head (opt.)
Spindle motor	kw	15 / 18.5		15 / 18.5	
Spindle cooling	type	oil cooler		oil cooler	
FEED RATE					
Rapid traverse (X, Y, Z)	m/min	18 / 18 / 15		18 / 18 / 15	
Cutting feed rate	mm/min	1-10000		1-10000	
X, Y, Z axis servo motor	kw	7 / 7 / 7		7 / 7 / 7	
ATC					
Magazine type	type	Arm	Chain type (opt.)	Arm	Chain type (opt.)
Tool magazine capacity	pcs	24	32	24	32
Max. tool diameter	mm	110 / 220	125 / 250	110 / 220	125 / 250
Max. tool length	mm	300	300	300	300
Max. tool weight	kgs	15	15	15	15
Tool selection	type	Random		Random	
OTHER					
Power consumption	KVA	40		40	
Floor space (L x W x H)	mm	4900 x 3750 x 3360		5100 x 3750 x 3360	
Machine weight	kgs	14000		16000	

Design and specifications are subject to change without prior notice.

Five Axis Machine Center

Specifications



SFM-500

X axis 1100mm / Y axis 600mm / Z axis 610mm

SFM-500D

X axis 1100mm / Y axis 600mm / Z axis 610mm

Standard Accessories

- Built-in spindle speed 15000rpm (BBT40)
- Arm type ATC 24-tools
- Full sealed splash guarding
- Roller type linear guideways
- B axis optical encoder
- Z axis coolant through ballscrews
- Chain type chip conveyor
- Rigid tapping
- Cutting coolant nozzle
- Cutting air blast system
- Spindle splash ring
- Spindle oil chiller
- Auto lubrication system
- Heat exchanger
- LED warning light
- Air gun
- Coolant gun
- LED work lamp

Optional Accessories

- Coolant through spindle 20bar / 40bar
- Arm type tool changer 30-tools
- X/Y axis coolant through ballscrews
- C axis optional encoder
- Tool measurement system
- Workpiece measurement system
- Air conditioner for electrical cabinet
- Transformer
- Rear coolant flushing device
- Disc type oil skimmer

MODEL	UNIT	SFM-500	SFM-500D
Travel			
X axis travel	mm	1100	1100
Y axis travel	mm	600	600
Z axis travel (Vertical)	mm	610	610
Z axis travel (Horizontal)	mm	710	710
Table area	mm	1250 x 620	1250 x 620
T-slot	mm	18 x 125 x 5	18 x 125 x 5
Spindle nose to work table surface (vertical)	mm	50~660	50~660
Spindle center to work table surface (horizontal)	mm	195~905	195~905
3 axes guideways type		Roller Linear (45/45/45)	Roller Linear (45/45/45)
Ballscrew diameter X/Y/Z	mm	45 / 40 / 40	45 / 40 / 40
Pitch of ballscrew X/Y/Z	mm	10 / 10 / 12	10 / 10 / 12
Swivel head (B axis)			
Built-in spindle max. speed	rpm	15000	15000
Spindle power (Fanuc)	kw	15/18.5	15/18.5
Spindle power (Siemens)	kw	27.5	27.5
B axis swivelling range	°	±120°	±120°
Spindle taper		BBT-40 / HSKA63 (opt.)	BBT-40 / HSKA63 (opt.)
Indexing accuracy (B axis)	sec.	20"	20"
Repeatability (B axis)	sec.	6"	6"
Rotary table (C axis)			
Rotary table diameter	mm	Ø500	Ø500
Indexing resolution	degree	0.001°	0.001°
Drive method		Worn wheel	DD motor
Max. speed	rpm	25	120 / 800
Max. table load	kgs	500	500
Feedrate			
Cutting feedrate	m/min	1-10m/min	1-10m/min
X/Y/Z axis servo motor (Fanuc)	kw	4 / 4 / 7	4 / 4 / 7
X/Y/Z axis servo motor (Siemens)	kw	4.9 / 4.9 / 4.4	4.9 / 4.9 / 4.4
Rapid traverse (X/Y/Z)	m/min	30 / 30 / 24	30 / 30 / 24
Auto Tool Changer			
Magazine type		Arm type	Arm type
Tool magazine capacity	set	24 / 30 (opt.)	24 / 30 (opt.)
Max. tool weight	kgs	7	7
Max. tool length	mm	250	250
Other			
Air supply required	kgs/cm ²	6	6
Power supply required	KVA	40	40
Machine weight	kgs	9200	9200
Floor space (L x W x H)	mm	4500 x 2565 x 3050	4500 x 2565 x 3050

Design and specifications are subject to change without prior notice.

Standard and Optional Accessories

Specification

- Standard Accessories
- ★ Optional Accessories
- None

MODEL	SHV-550	SHV-800	SHV-1020	SHV-1100/1200	SHV-1300/1500/1600	SHV-1800/2000	SMV-1100/1200A/1400	SMV-1600/1800
Full splash guard	●	●	●	●	●	●	●	●
Belt drive spindle speed 10,000rpm, BT40	●	●	●	●	●	★	●	—
Armless type ATC 24 tools (BT40)	●	●	●	●	●	★	●	★
Spindle splashing ring	●	●	●	●	●	●	●	●
Spindle splashing	●	●	●	●	●	●	●	●
Air blowing/Spindle unclamping air blowing/spindle air curtain	●	●	●	●	●	●	●	●
Rigid tapping	●	●	●	●	●	●	●	●
Automatic power off system	●	●	●	●	●	●	●	●
Auto lubrication system	●	●	●	●	●	●	●	●
Spindle oil cooler unit	●	●	●	●	●	●	●	●
Heat exchanger	●	●	●	●	●	●	●	●
Telescopic covers for 3 axes	●	●	●	●	●	●	●	●
Work lamp	●	●	●	●	●	●	●	●
Three-color call light	●	●	●	●	●	●	●	●
Tool box	●	●	●	●	●	●	●	●
Coolant gun	●	●	●	●	●	●	●	●
Drawer type coolant tank	●	●	●	●	●	●	●	●
Screw type chip conveyor+Chip cart	●	★	★	—	—	—	—	—
Chain type chip conveyor+Chip cart	★	●	●	●	●	●	●	●
Transformer	★	★	★	★	★	★	★	★
CE	★	★	★	★	★	★	★	★
Armless type ATC 30 tools (BT40)	★	★	★	★	★	★	★	★
Chain type ATC 30 tools (BT40)	—	—	★	★	★	★	★	★
Armless type ATC 24 tools (BT50)	—	—	—	—	★	★	★	★
Chain type ATC 32 tools (BT50)	—	—	—	★	★	●	★	●
Chain type ATC 40 tools (BT50)	—	—	—	—	—	★	—	★
Belt drive spindle speed 12,000rpm, BT40	—	—	—	—	—	★	—	★
Belt drive spindle speed 6000rpm, BT50	★	★	★	★	★	★	★	—
Direct drive spindle speed 10000/2000/15000rpm(BT40)	—	—	—	★	★	●	★	●
Built-in type spindle speed 240000 / 30000 / 36000 rpm	★	★	★	★	★	★	★	★
Built-in type spindle speed 16000 / 20000 / 24000 / 30000 rpm	★	★	—	—	—	—	—	—
Rear coolant flushing device	★	★	★	★	★	★	★	★
Oil skimmer	★	★	★	★	★	★	★	★
Air conditioner for electrical cabinet	★	★	★	★	★	★	★	★
Coolant through spindle (With sealed splash guard)	★	★	★	★	★	★	★	★
Roller type linear guideway	★	★	★	★	★ / ● / ●	●	—	—
Auto pallet changer	—	—	—	—	—	—	—	—
Gear box	—	—	★	★	★	★	—	—
Gear headstock (Armless ATC not available)	—	—	—	—	—	—	★	★
4th axis rotary table	★	★	★	★	★	★	★	★
CNC tilting and rotary table	★	★	★	★	★	★	★	★

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