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SVW ***SERIES***

CNC Double Column Machining Center

SVW series

Best Research & Development Team.

Strict Quality Control, High Production Efficiency.

Box structure with enhanced rib design, ensure high stability and rigidity of machine.

Working table fully supported by linear guide ways with NO overhanging.

The gear-driven spindle with two-step gear box.

Low gear provide high torque, good for heavy cutting.

High gear improves machining accuracy.

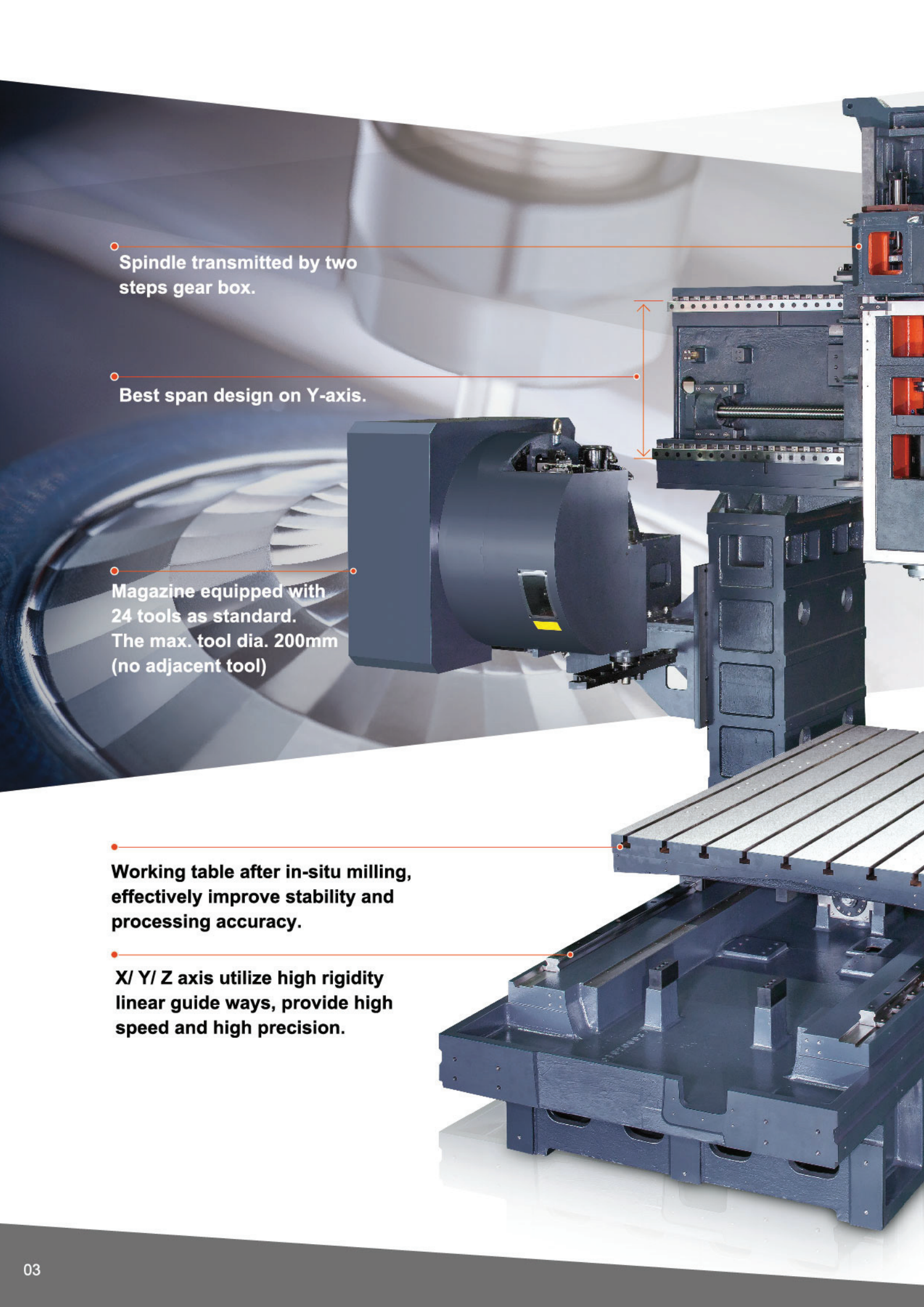




SVW-XX XX (SVW-2217~3222)

— Column distance

— X-axis travel



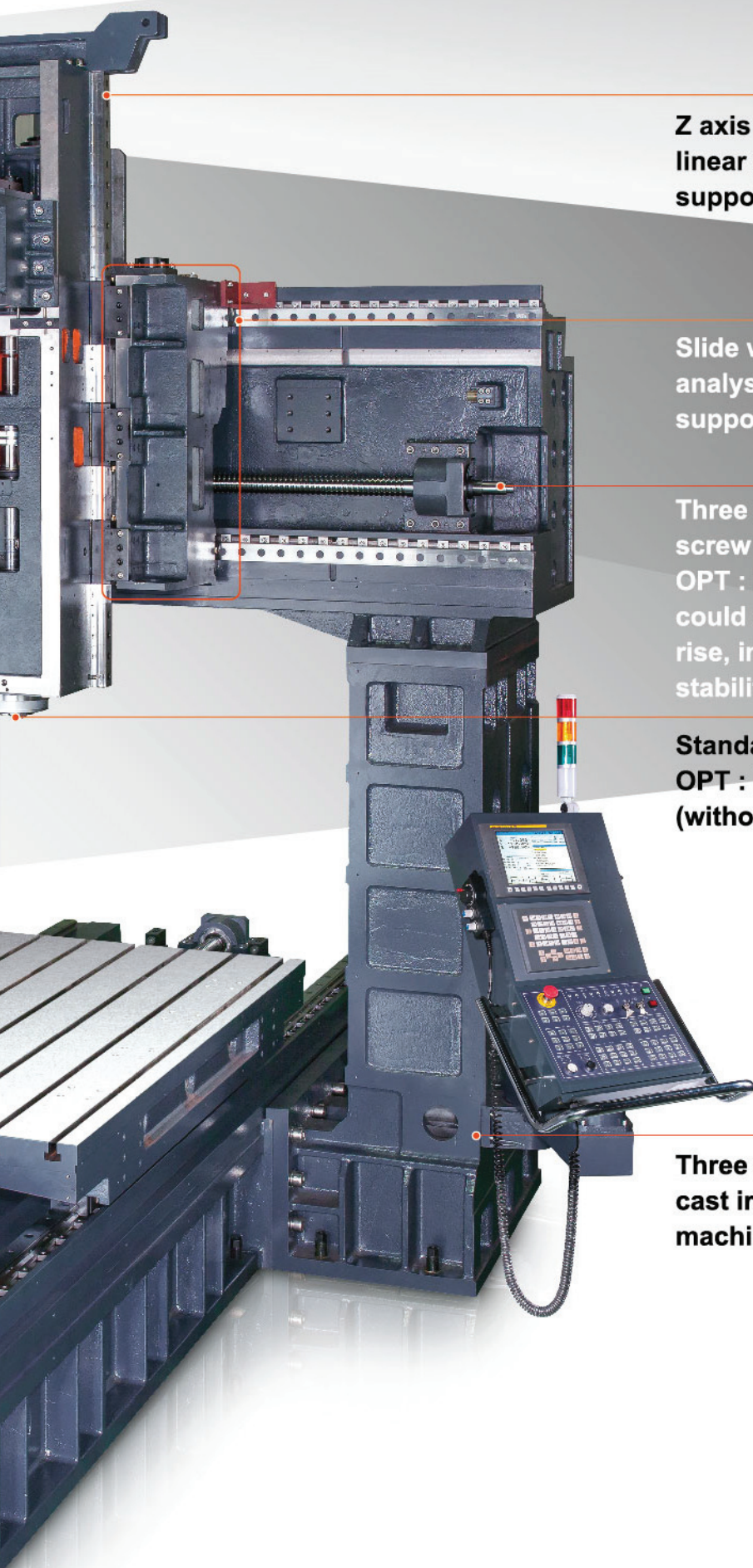
Spindle transmitted by two steps gear box.

Best span design on Y-axis.

Magazine equipped with 24 tools as standard.
The max. tool dia. 200mm
(no adjacent tool)

Working table after in-situ milling,
effectively improve stability and
processing accuracy.

X/ Y/ Z axis utilize high rigidity
linear guide ways, provide high
speed and high precision.



Z axis uses high rigidity roller type linear guide ways, effectively support heavy cutting.

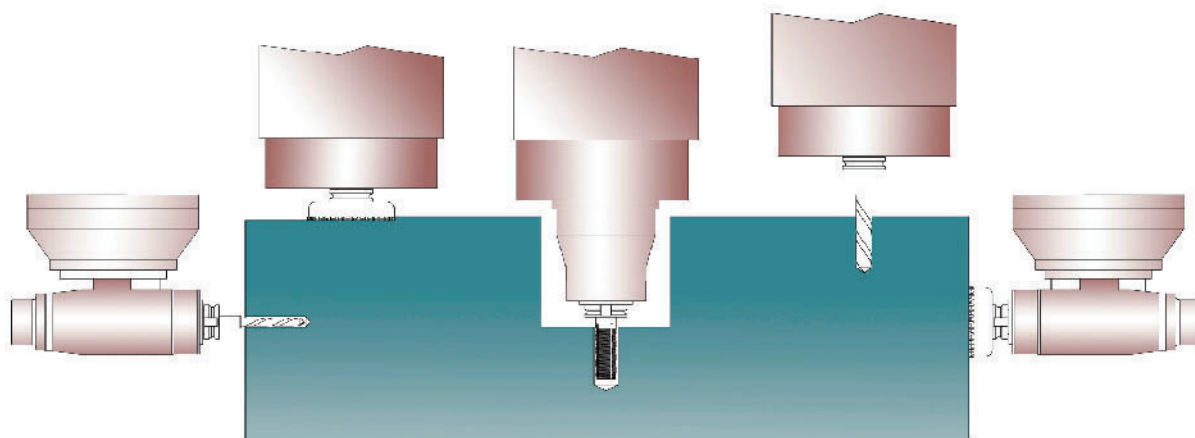
Slide way makes good use of FEM analysis, provide Ram high rigidity support.

Three axes use high precision ball screw with pretension.
OPT : Ball screw cooling system could efficiently limit temperature rise, improve high precision and stability.

Standard spindle: 6000 rpm
OPT : Direct-Driven spindle 10,000rpm (without gear box).

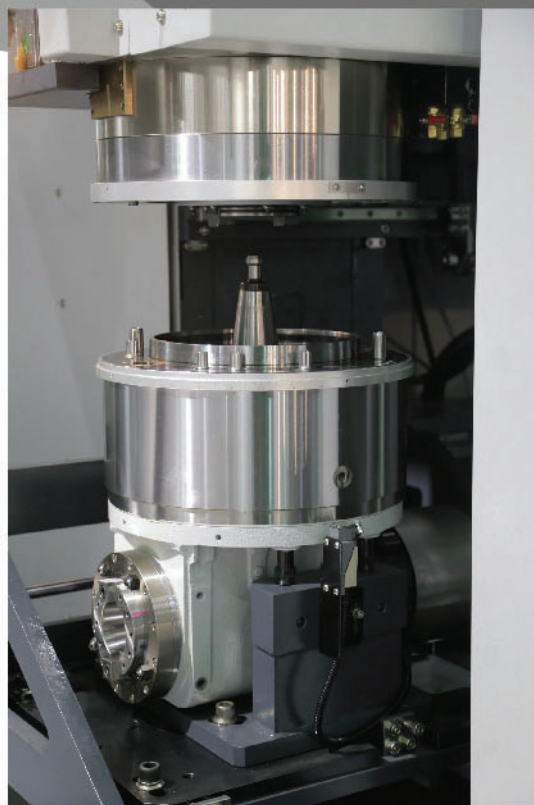
Three axes and ram use Meehanite cast iron, ensure the greatest machining stability and high precision.

Automatic Attachment Changer System (AAC system)



To reduce machining time and enhance accuracy, available to equip with automatic accessory change function to carry out a smooth machining sequence.(OPT.)

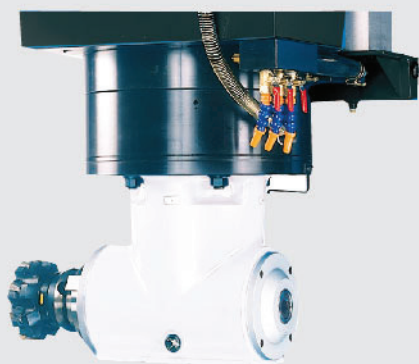




**AAC system equip with
pendant control panel
(optional)**



Milling head (opt.)



90° angular milling head

- 2000/3500 rpm
- Manual positioning & Automatic positioning



90° angular extended head

- 800rpm or 3500rpm



Extended milling head

- 3500rpm



Multi angular manual head

- 1200rpm or 3500rpm
- CTS available (optional)



Manual Universal Milling Head

- 2500rpm or 3500rpm
- Hydraulic tool clamping
- CTS available (optional)



Automatic Vertical & Horizontal Milling Head

- A/C Axis 5° positioning
- 3500rpm
- Hydraulic tool clamping/ unclamping
- CTS available (optional)

Optional accessories

Direct- Driven Spindle

- Available for high speed cutting
- BT/ DIN/ CAT 50
 - Optional: 8000 with ZF gear box
10000 rpm without gear box
- BT/ DIN/ CAT/ HSK 40
 - Optional: 8000/ 10000/ 12000/ 15000 rpm



Fanuc 0i-M With 10.4" screen (Standard)

- Optional:
 1. Fanuc 32i-M/ 31i-M
 2. Meldas(M70/ M700)
 3. Siemens (828D/840DSL)
 4. Heidenhain(iTNC 530)

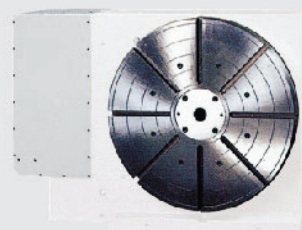


Pendant Control Panel (Optional)



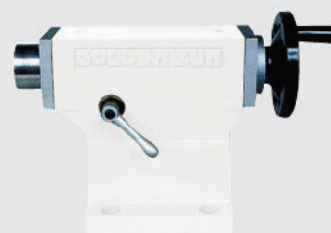
Vertical Chain Type ATC (Optional)

- Arm type
- Bi-directional, random tool selection
- 32 or 40 tools



CNC Rotary Table

- $\varnothing 400\text{mm}$, $\varnothing 500\text{mm}$.
- $\varnothing 630\text{mm}$, $\varnothing 800\text{mm}$.

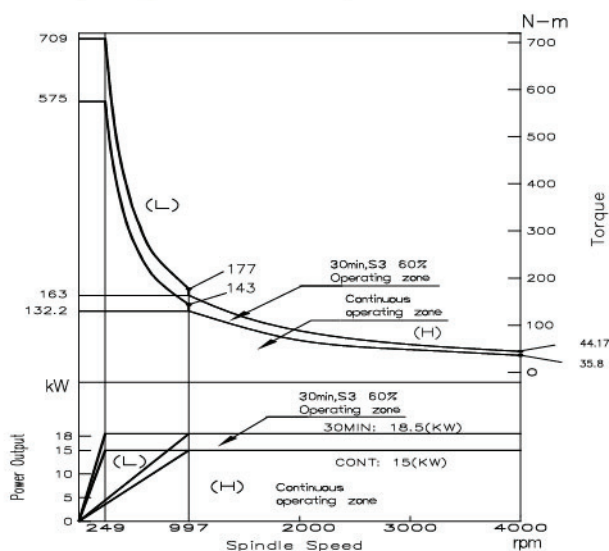


Manual Tailstock

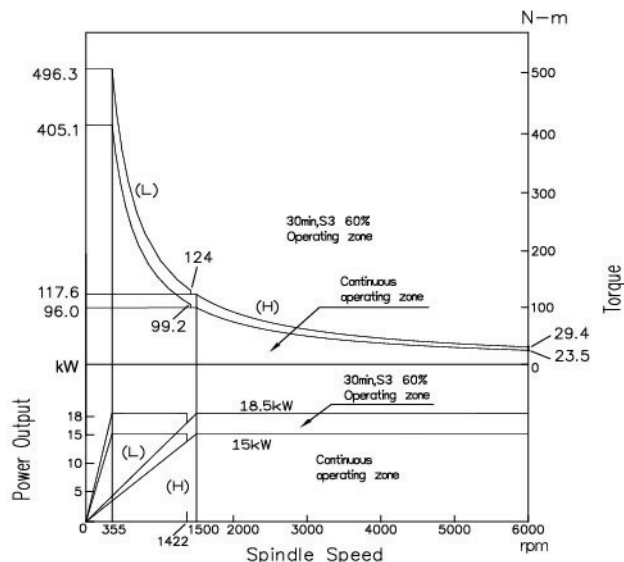
Spindle Motor Output Power Chart

Highest Torque Spindle FANUC

STD.

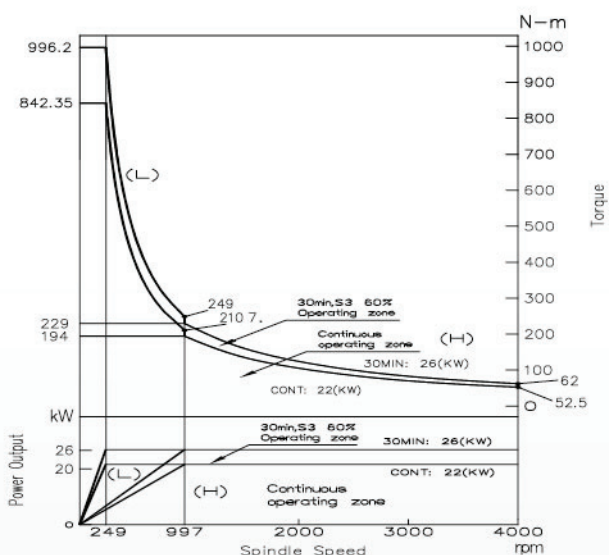


Spindle Motor (18.5/ 15kW), 4000rpm, Gear Box

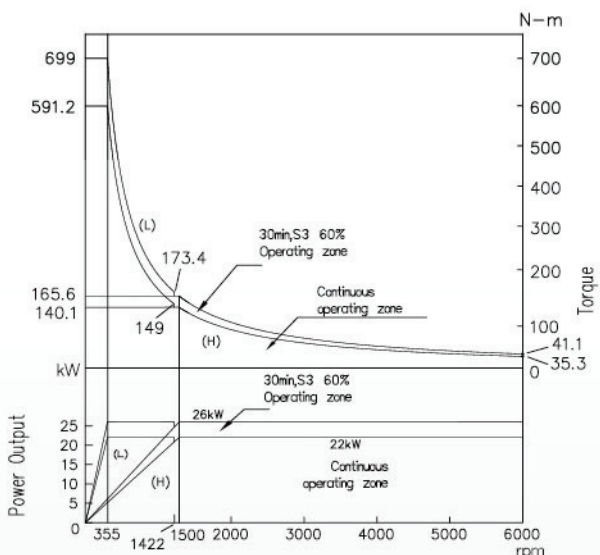


Spindle Motor (18.5/ 15kW), 6000rpm, Gear Box

OPT.



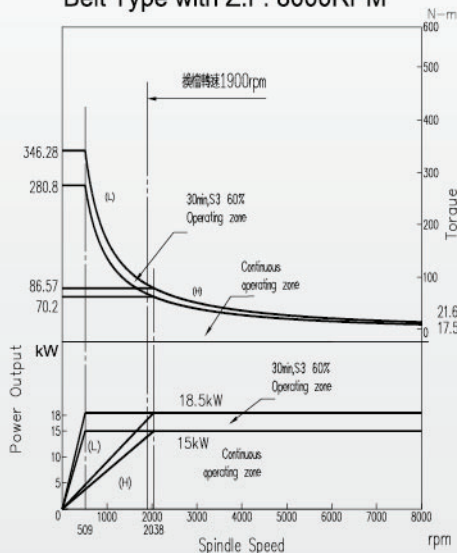
Spindle Motor (26/22 kW), 4000rpm, Gear Box



Spindle Motor (26/ 22kW), 6000rpm, Gear Box

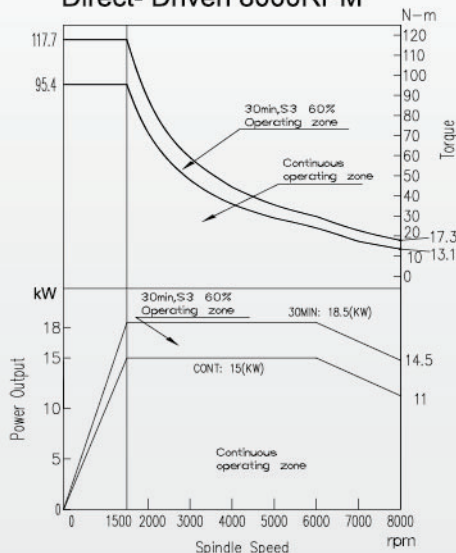
Highest Speed Spindle FANUC

Belt Type with Z.F. 8000RPM



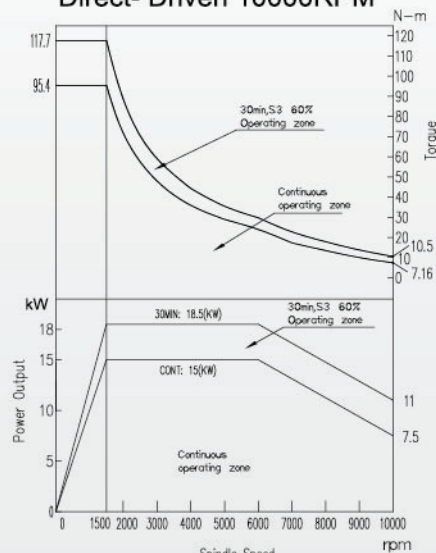
Spindle Motor (18.5/15kW)

Direct- Driven 8000RPM



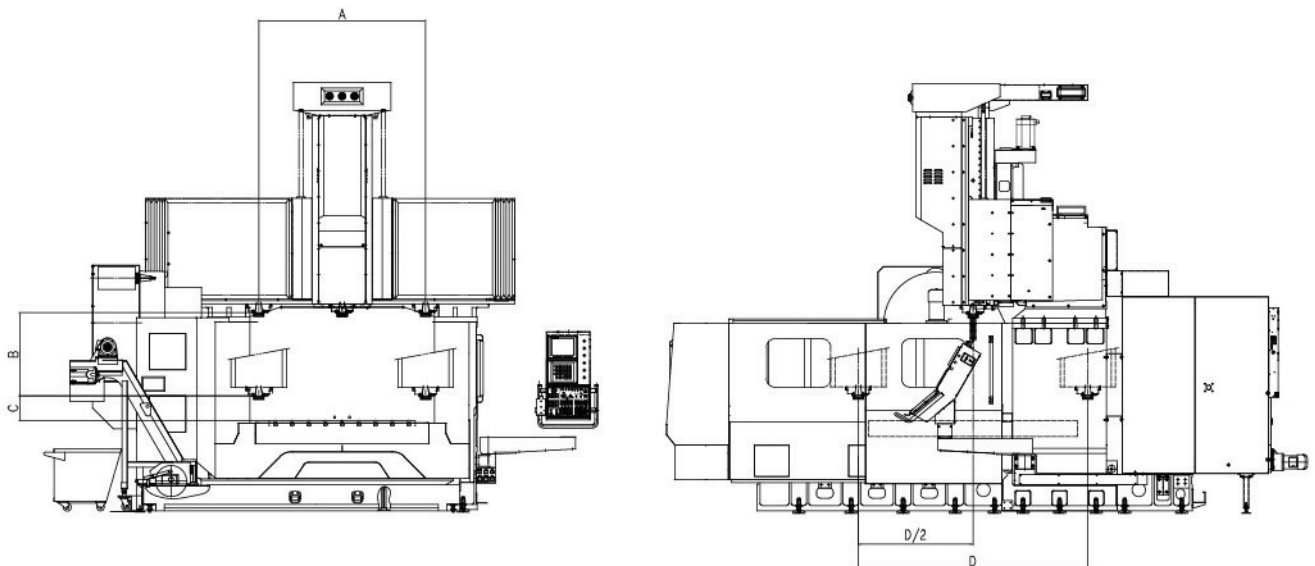
Spindle Motor (18.5/15kW)

Direct- Driven 10000RPM



Spindle Motor (18.5/15kW)

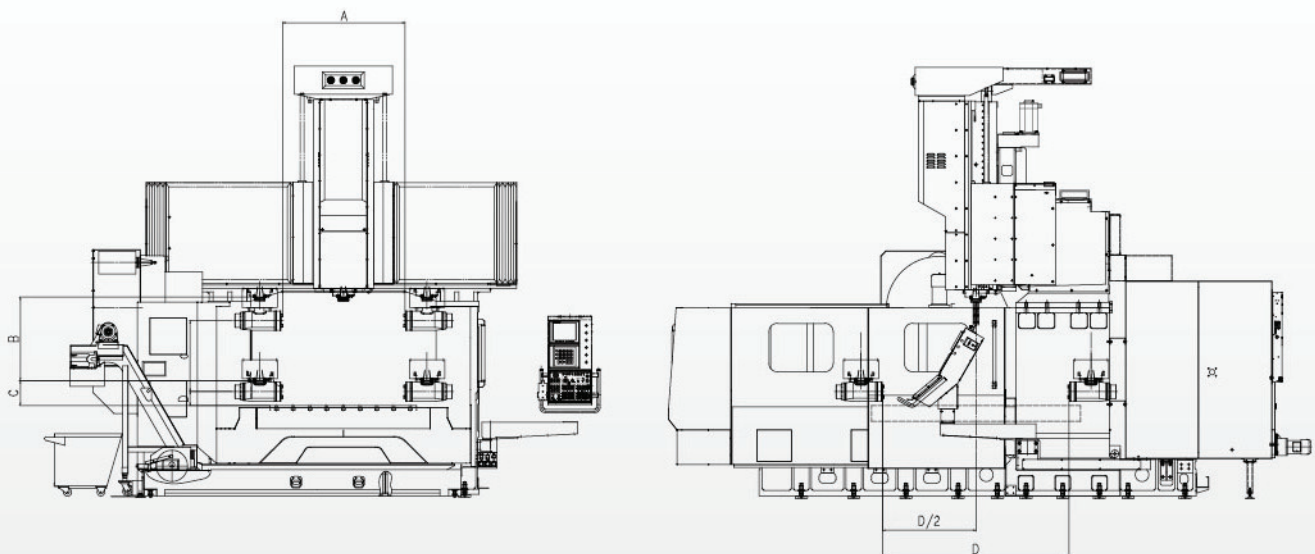
Working Area



Unit : mm

Model	A-Y Axis working travel	B-Z Axis working travel	C-Spindle Nose to Table Top	D-X Axis working travel
SVW-2217	1600	800 1000	240	2200
SVW-3217	1600	800 1000	240	3200
SVW-3222	2100	800 1000	240	3200
SVW-4222	2100	800 1000	240	4200

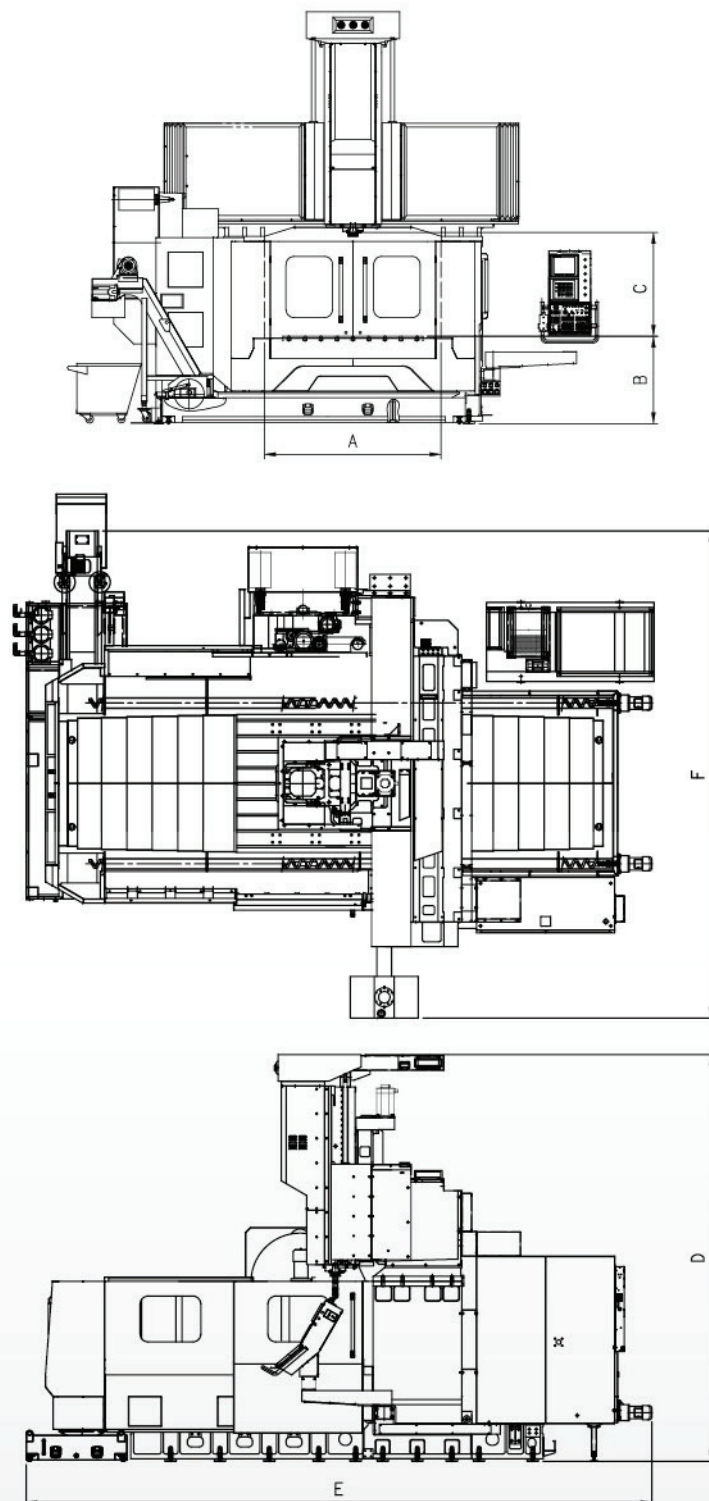
The Working Area With 90° Degree Milling Head



Unit : mm

Model	A-Y working travel (With 90° angular head)	B-Z Axis working travel		C-Center head to Table Top	D-X Axis working travel
		Z=800	Z=1000		
SVW-2217	1182	680	880	134	1782
SVW-3217	1182				2782
SVW-3222	1682				2782
SVW-4222	1682				3782

Floor Space & Machine Layout



Unit : mm

Modle	A-Between Two Columns	B-Table to Ground	C-Spindle Nose to Table Top		D-Machine Height		E-Machine Length	F-Machine Width
			Z=800	Z=1000	Z=800	Z=1000		
SVW-2217	1770	850	240~1040	240~1240	4200	4800	6350	5000
SVW-2817	1770						7550	5000
SVW-2822	2270						7550	5500
SVW-3217	1770						8850	5000
SVW-3222	2270						8850	5500
SVW-3223	2370						8850	5700
SVW-4217	1770						10350	5000
SVW-4222	2270						10350	5500
SVW-4223	2370						10350	5700

Machine Specifications

ITEM			SVW-2217	SVW-2817	SVW-2822	SVW-3217	SVW-3222	SVW-3223	SVW-4217	SVW-4222	SVW-4223
TABLE											
Overall size		mm	2000X1400	2600X1400	2600X1800	3000X1400	3000X1800	3000X2000	4000X1400	4000x1800	4000x2000
T slots		mm	22								
Max. loading		ton	8	9	11	10	12	12	14	15	15
TRAVEL											
X axis		mm	2200	2800		3200			4200		
Y axis		mm	1600		2100	1600	2100		1600	2100	
Z axis		mm	800(1000)								
DISTANCE											
Between two columns		mm	1700		2200	1700	2200	2300	1700	2200	2300
Spindle nose to table top	Z=800mm	mm	240~1040								
	Z=1000mm	mm	240~1240								
SPINDLE											
Speed		rpm	6000(4000)								
Taper			BT/DIN/CAT 50(#40)								
Motor(cont/30min)		kW	15/18.5(22/26)								
ATC											
No. of ATC		tools	24(32/40/60)								
Max. Dia of tool		mm	ø 110 with adjacent tool / ø 200 without adjacent tool								
Max. length of tool		mm	350								
Max. tool weight		kg	18								
FEED RATE											
Rapid feedrate X/Y/Z		m/min	15/15/15			12/15/15					
Cutting feedrate		mm/min	1~10000								
Min. Setting		mm	0.001								
COOLANT & LUBRICATION											
Hydraulic tank volume		L	70								
Lubrication tank volume		L	8								
Coolant tank volume		L	584		680	584	680		584	680	
MISCELLANEOUS											
Machine Weight		tons	21	24	26	26	32	35	38	43	45
Power required		kVA	40						50		
Compressed air pressure		kg/cm ²	7								
Compressed oil pressure		kg/cm ²	70								
Floor space	Length	mm	6350	7550		8850			10350		
	Width	mm	5000		5500	5000	5500	5700	5000	5500	5700
Controller			FANUC Oi-M (32i-M / 31i-M) MITSUBISHI (M70/M700) 、SIEMENS (840DSL/828D) HEIDENHAIN (iTNC 530HSCI)								

★ Specifications subject to change without prior notice.

Standard Features & Accessories

- A.T.C. 24
- Automatic power off
- AICC II (200 Block / 30m)
- Automatic lubrication system
- Heat exchanger in cabinet
- Levelling bolts & pads
- M.P.G.
- Machine & controller manuals
- RS-232C & RJ-45 terminal interface
- Splash guard
- Spindle oil cooler
- Spindle speed 6000rpm
- Spindle air blast system
- Spindle motor 15/18.5kW
- Screw auger & chain type chip conveyors & cart
- Tools box for machine adjustment
- Working lamp & alarm lamp

Optional Accessories

- Auxiliary work table
- Auto heat compensation
- Air conditioner at cabinet
- Air condition in electric cabinet
- Auto tool change: 32/34/60 TOOLS
- Auto attachment changer system (AAC)
- CNC rotary table
- Cutting coolant mist device
- Coolant through spindle (CTS 20BAR)
- Full splash guard with roof
- Tool shank with oil
- Tool presetter (TS-27)
- Workpiece coordinate measuring (OMP 60)
- X/Y/Z Airs linear scales
- Z axis box way

EQUIPTOP



EXCELLENT



FEATURES



PROVIDE



VALUE



2017 Taichung city
the 16th excellent
SMEs Golden hand award.



2017 The 14th
National brand:
Remarkable enterprise
Yushan Award.



2017 Republic of China
prominent enterprise
management association,
the 18th golden peak award:
Top 10 remarkable innovative
research and development.



2017 Republic of China
prominent enterprise
management association,
the 18th golden peak award:
Top 10 excellent business
pioneer model.



ISO 9001: 2015



Machinery
Directive
Number 1674



IT'S VERY WELL
MADE IN TAIWAN



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