

**SBM** Series

**FORTEX**

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Once SANCO  
Value Forever



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**SBM** Series

**CNC Bed Type Universal  
Milling Machine**

**SANCO**<sup>®</sup>



## Outstanding Design Reflecting Extraordinary Cutting Capabilities

- Vertical axis is counter-balanced by hydraulic cylinder, preventing the milling head and the ram assembly from slipping.
- Modulization design featuring cost effectiveness, and easy to satisfy customized orders.
- Machine structure is designed and analyzed by Finite Element Method (FEM).
- Z axis motor is fitted with brake to prevent Ram falling down in case of power failure.



# SANCO

SANCO SBM SERIES  
CNC Universal  
Milling Machine  
Your best choice for mold  
and mold base machining



With the excellent heavy cutting performance and versatility, SANCO CNC Universal Milling Machine Series is widely recognized by worldwide customers who are pursuing high working efficiency.

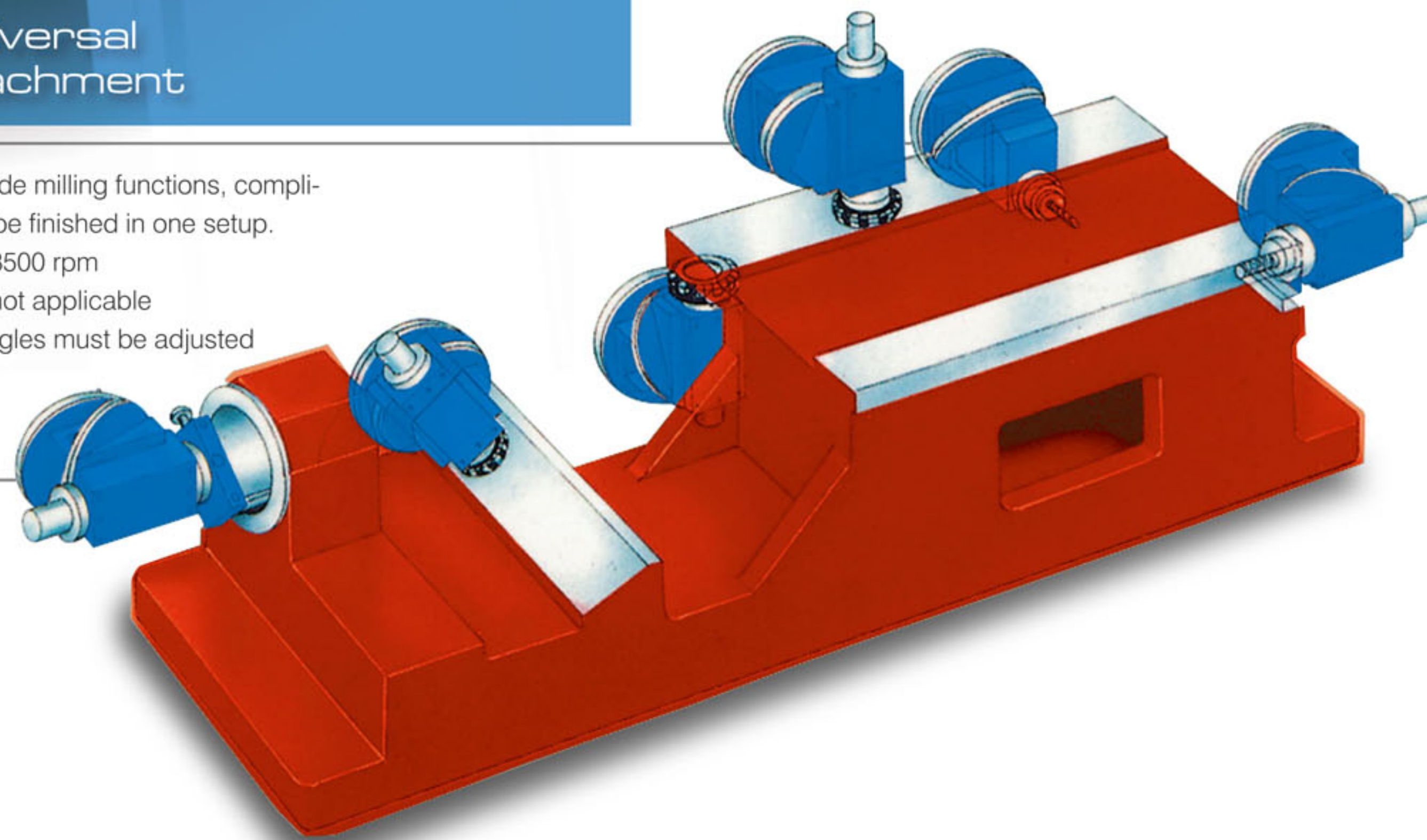


## Increased Machining Accuracy And Efficiency

SANCO CNC Universal Milling Machine is capable of incorporating a manual universal milling attachment, providing multi-angle and side machining functions. Such flexibility increases machining efficiency, and assures cutting accuracy.

### Manual Universal Milling Attachment

- Multi-face and side milling functions, complicated jobs may be finished in one setup.
- Spindle speed: 3500 rpm
- ATC function is not applicable
- All machining angles must be adjusted manually.



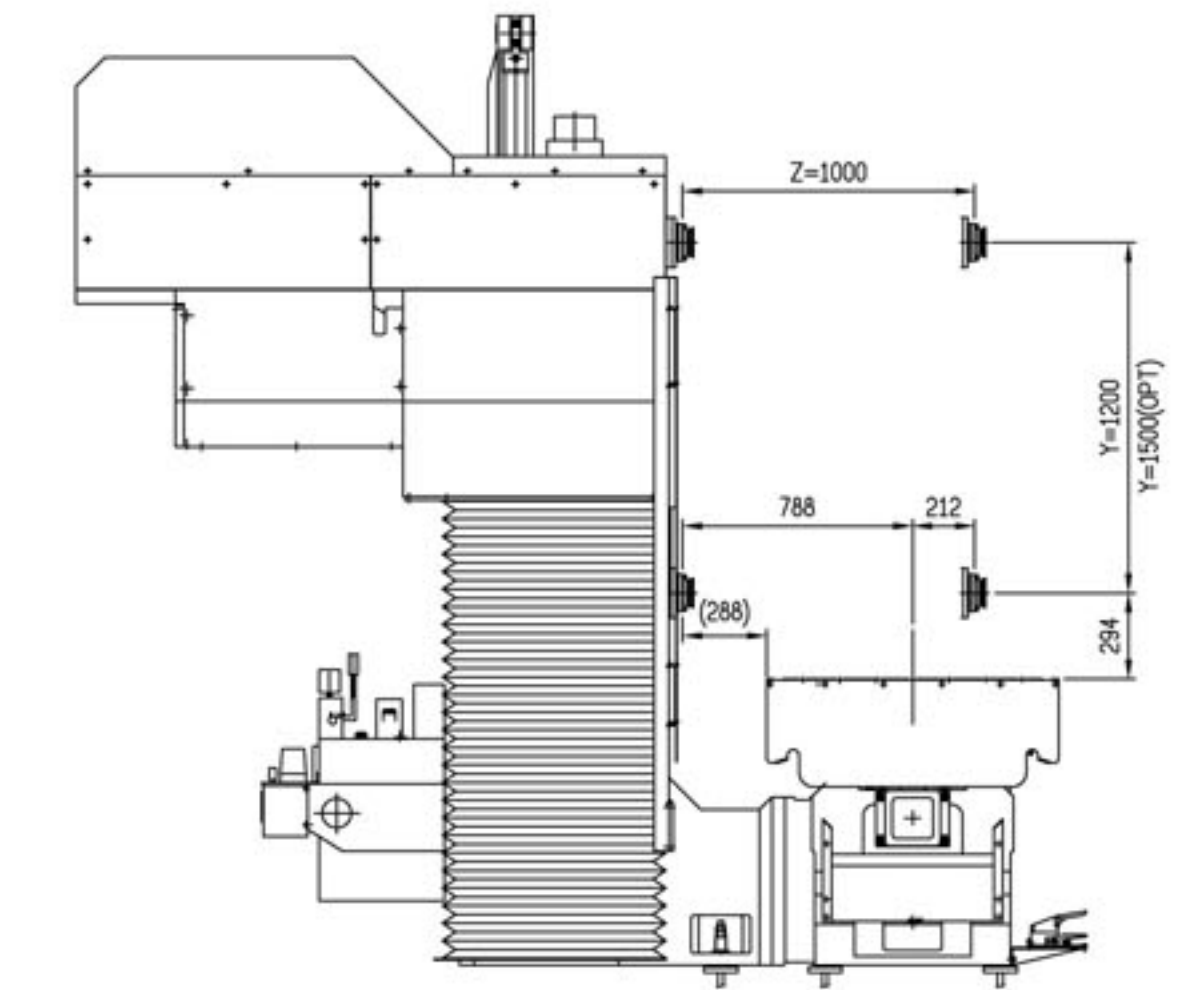
unit:mm

	A	B	C	D	E	F	G	H	I	J	K
Manual Universal Milling Head	SBM2000	1200(1500)	105.1	0	1,000	1,000	1,005	1200(1500)	121.9	2.6	2.6
	SBM2600										
	SBM3000										
	SBM3500										
Automatic Vertical / Horizontal Milling Head	SBM2000	1200(1500)	45	32	1,000	1,000	1,005	1200(1500)	95	-20	-20
	SBM2600										
	SBM3000										
	SBM3500										

### Standard Horizontal Milling Head (w/o Milling Head)



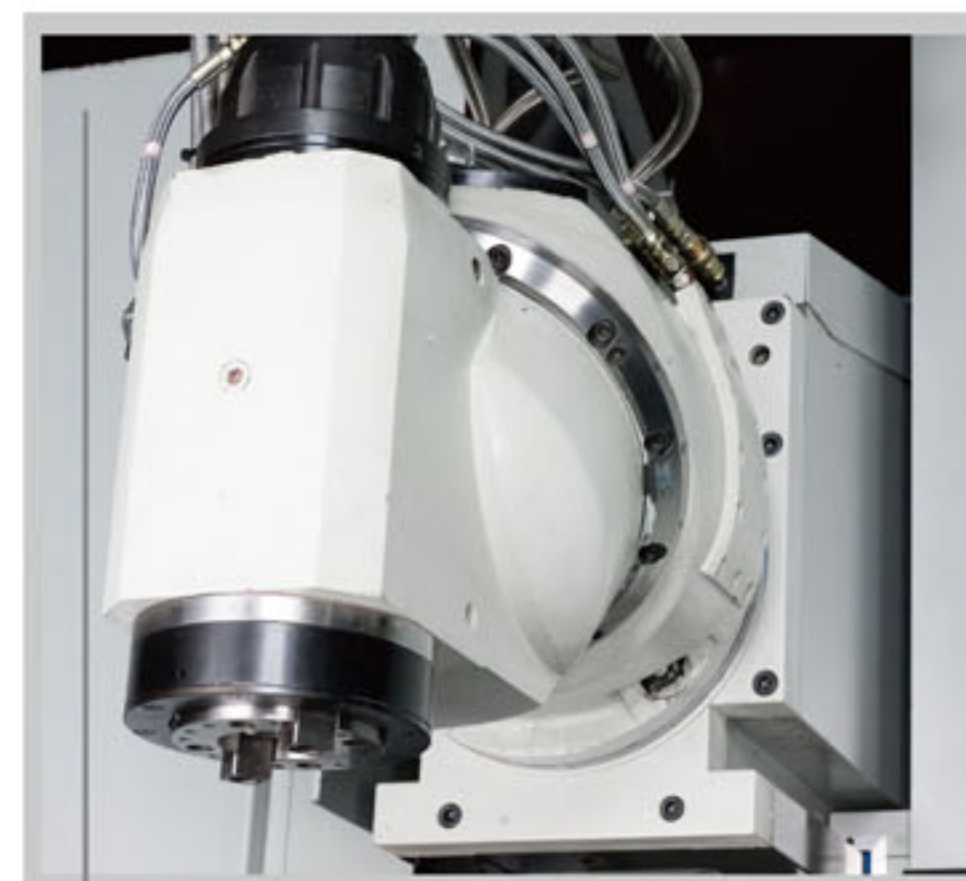
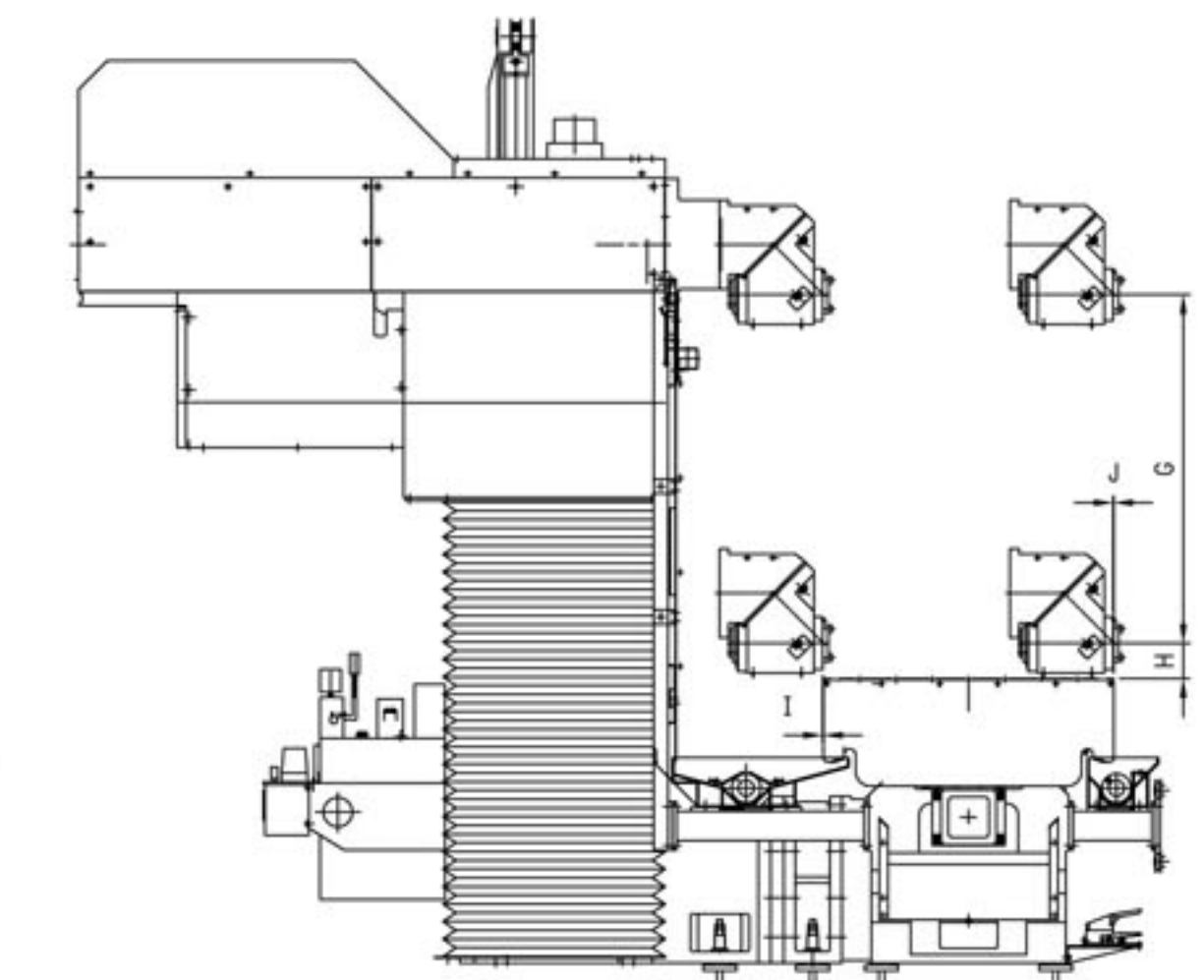
• Spindle Speed : 4,000rpm



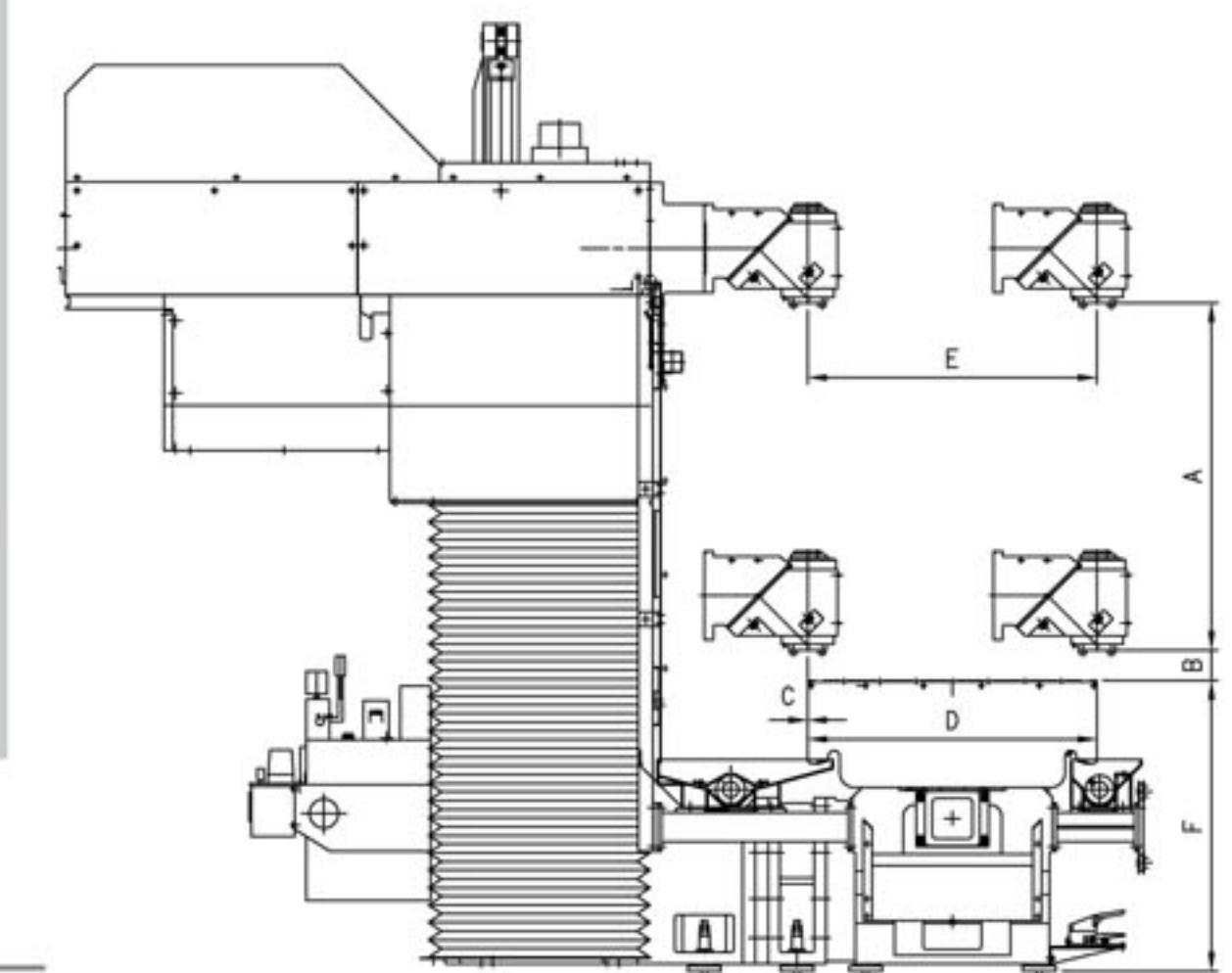
### Automatic Vertical / Horizontal Milling Head (Optional)



**Horizontal machining**  
• Spindle Speed : 3,500rpm



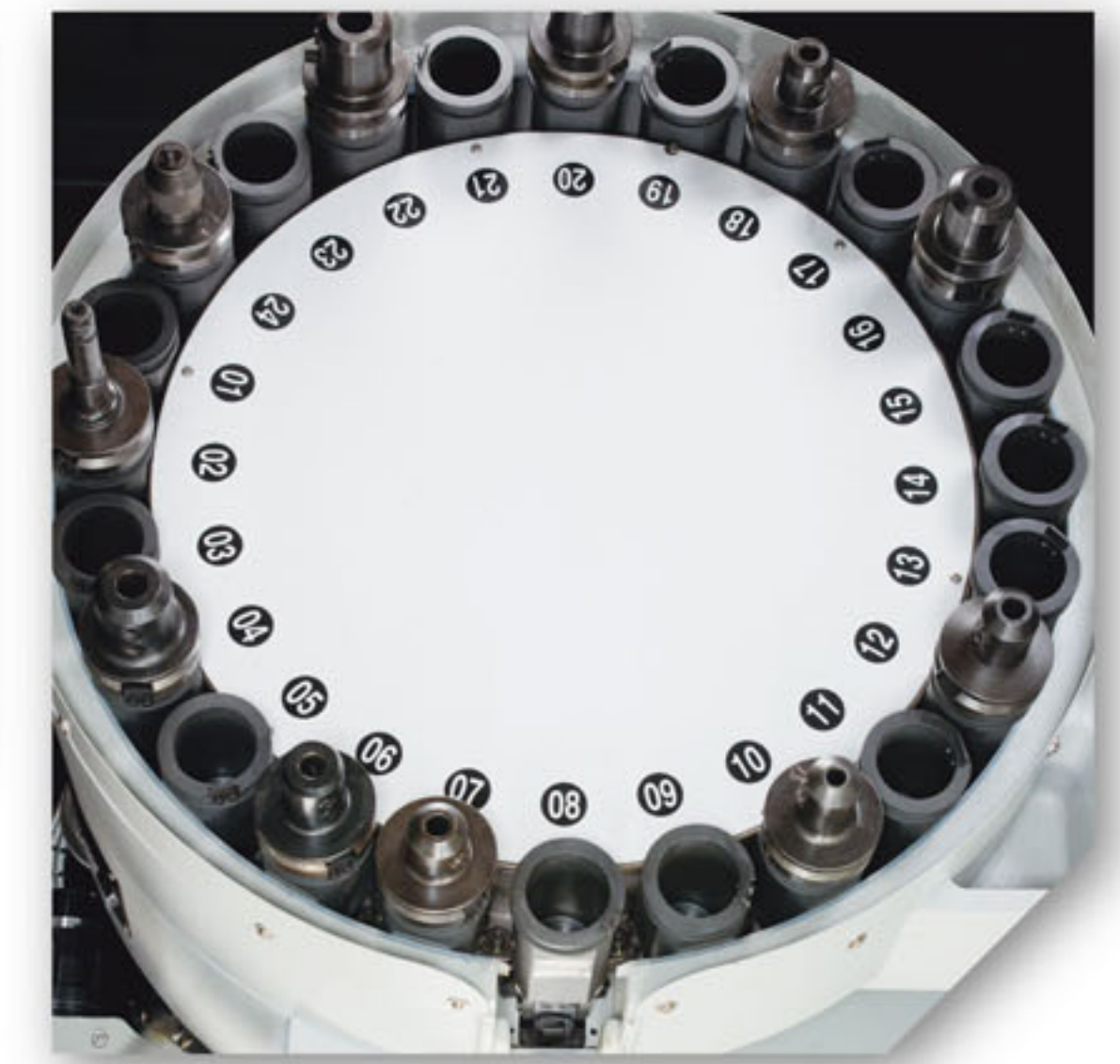
**Vertical machining**  
• Spindle Speed : 3,500rpm



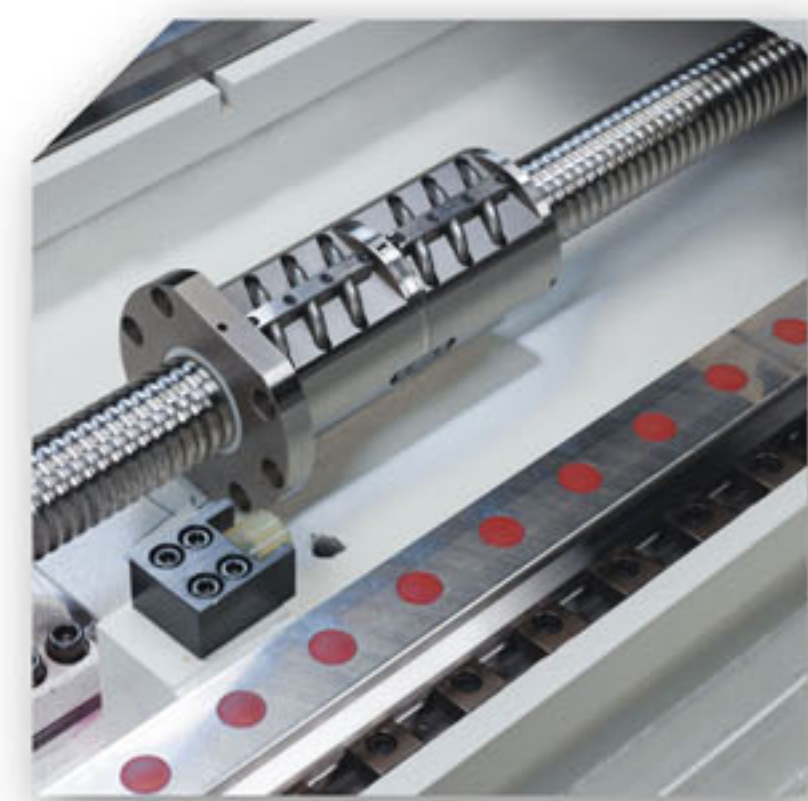


## SANCO SBM Series Bring You Great Advantages in Competitiveness.

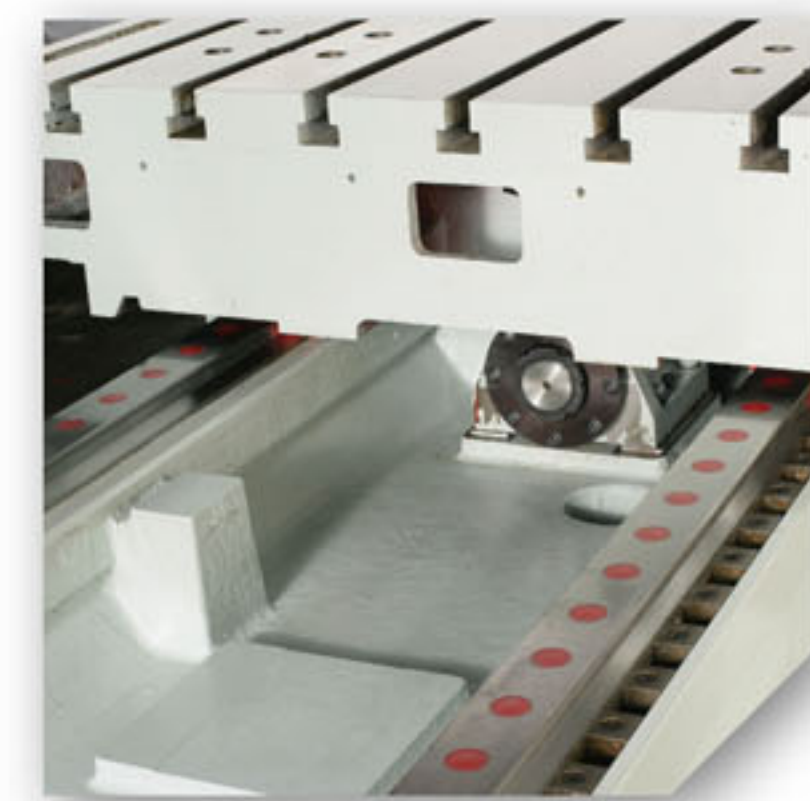
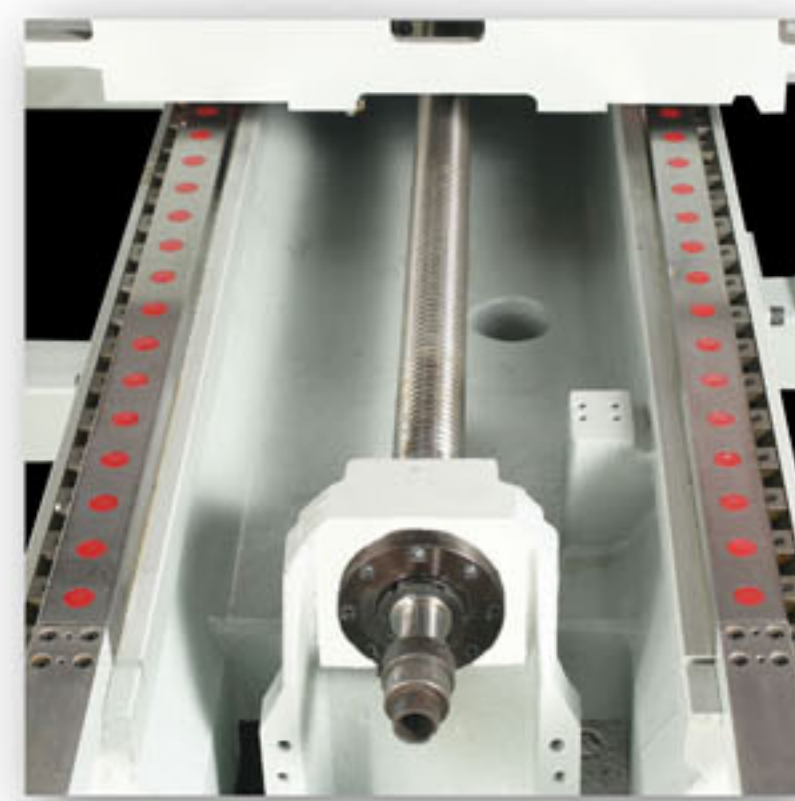
SANCO machine's steady mechanical structure is developed to increase cutting efficiency, and support our customers to create higher productivity and profits.



Vertical arm type ATC magazine



High precision and pre-tensioned ball screws are employed on the machine to ensure maximum axial rigidity.



X-axis equipped with roller type linear way for excellent table loading capacity.

## High Rigidity Machine, Suitable for Heavy Duty Cutting

Stable mechanical structure featuring high rigidity and steadiness in heavy cutting.

- The main machine structures are designed and analyzed via Finite Element Method, with heat treatment process procedures to ensure dynamic as well as static accuracy of the machine, free from deformation issues.





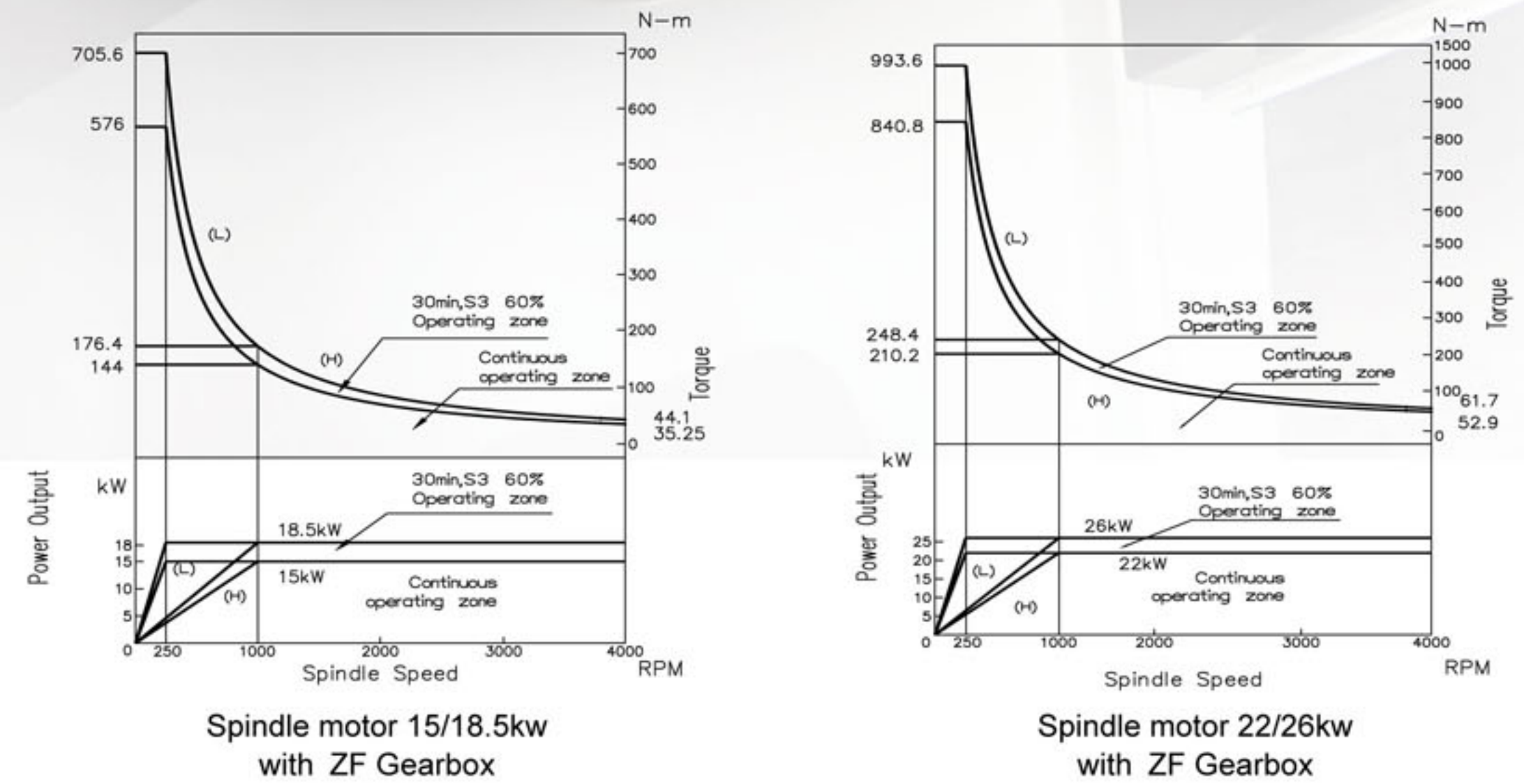
# Precision Spindle

High output torque  
Excellent heavy duty cutting performance

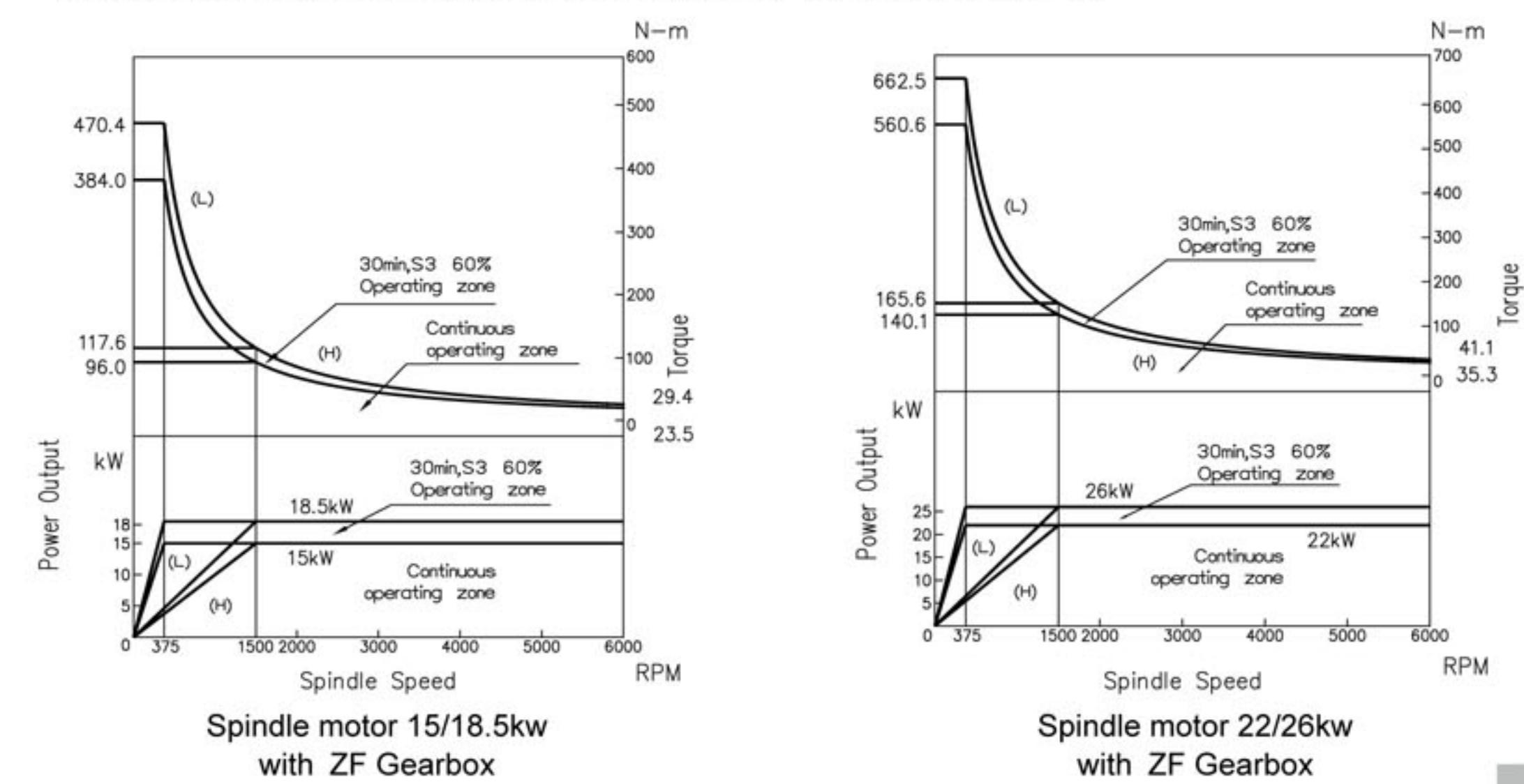
- BT50, 4000 or 6000 rpm spindle (standard).
- 4000 to 6000 rpm spindle is optional.
- Standard feature is horizontal spindle.
- Spindle is driven by AC servo motor via 2-step transmission gearbox to supply high torque for heavy duty cutting.
- Spindle speed and rotating direction can be controlled by CNC.

## Spindle Opt Chart

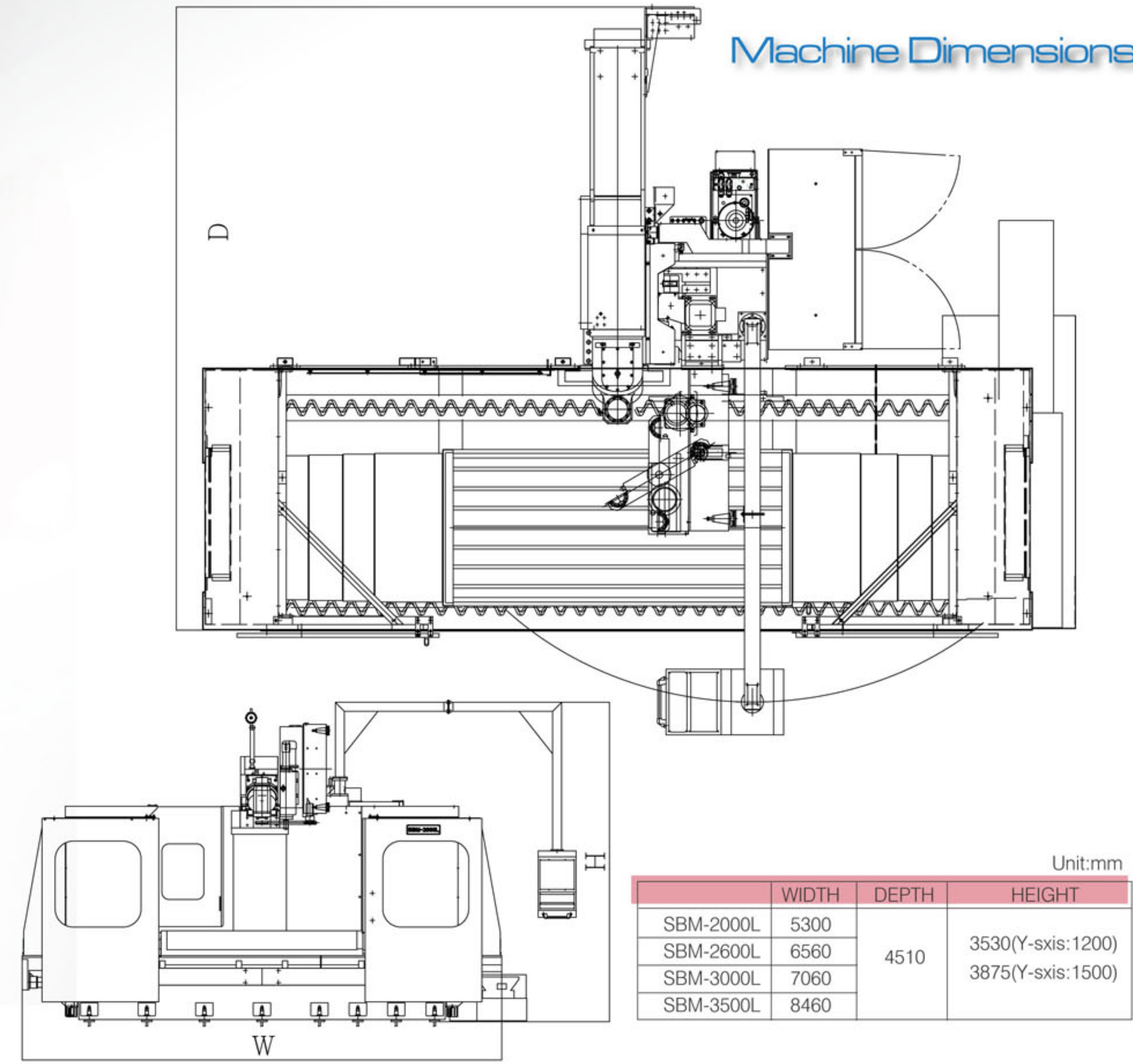
SBM-2000L/2600L/3000L/3500L SPINDLE 4000RPM



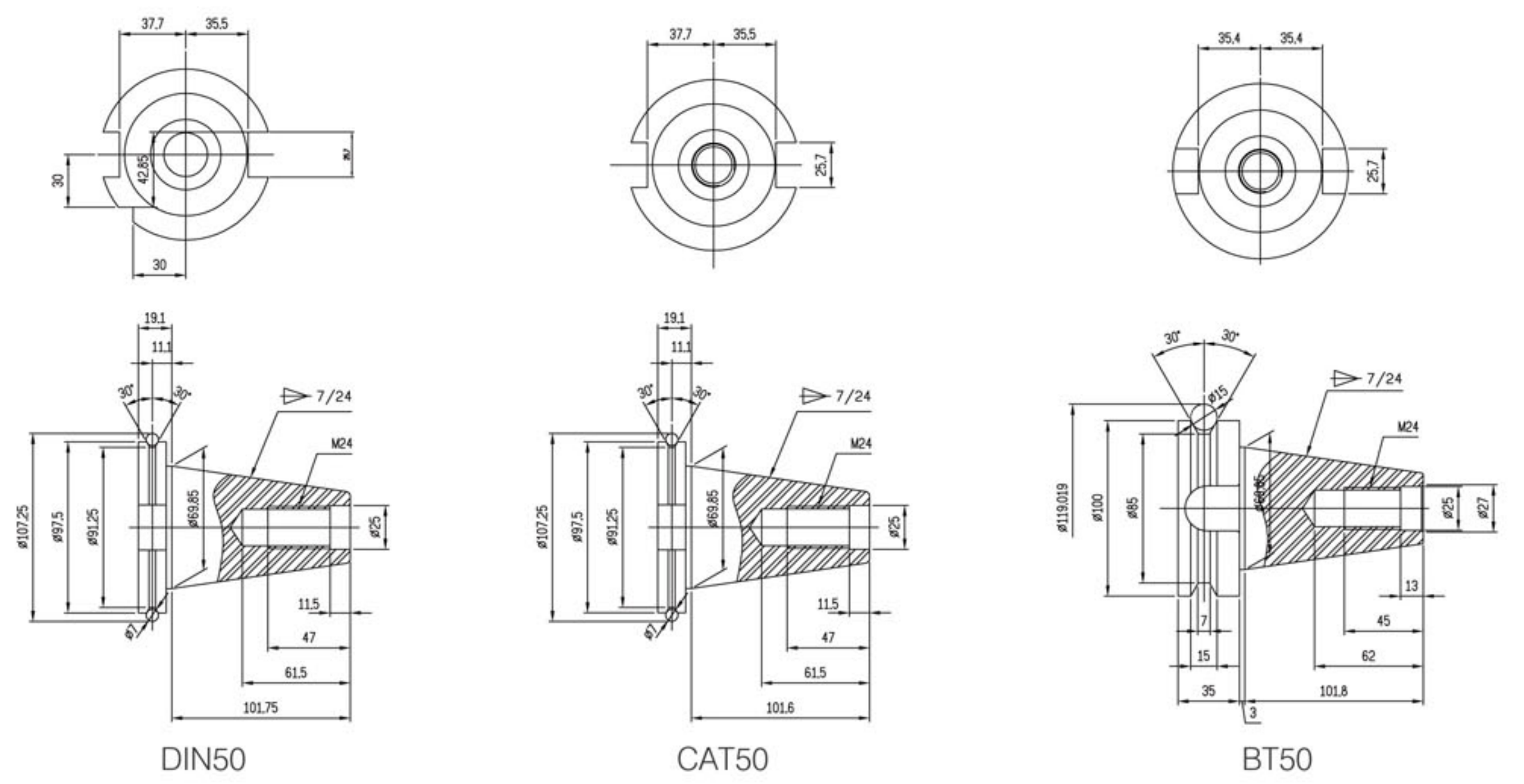
SBM-2000L/2600L/3000L/3500L SPINDLE 6000RPM



## Machine Dimensions



## Tool Holders





## Machine Specifications

MODEL	UNIT	SBM-2000L	SBM-2600L	SBM-3000L	SBM-3500L
<b>TABLE</b>					
Working Area	mm	2,100 x 1,000	2,700 x 1,000	3,100 x 1,000	3,600 x 1,000
T Slots (Size x No)	mm	22H8 x 7slots			
Distance From Floor To Table Top	mm	1,005			
Max. Table Loading	kg	5,000	6,000	7,000	8,000
<b>TRAVEL (Horizontal w/o optional milling head)</b>					
X Axis travel	mm	2,000	2,600	3,000	3,500
Y Axis (upward-downward)	mm	1,200 (1,500)			
Z Axis (forward-backward)	mm	1,000			
<b>HORIZONTAL SPINDLE</b>					
Taper		DIN 69871 / BT50			
Speed	rpm	4,000 ( 6,000 )			
Max. Power Output	kW	15 / 18.5 ( 22 / 26 )			
<b>FEEDRATE</b>					
Cutting	mm/min	1-5,000			
Rapid	mm/min	10,000			
<b>BALLSCREWS</b>					
X Axis Dia.x Pitch	mmxmin	∅ 63 x 10			
Y Axis Dia.x Pitch	mmxmin	∅ 50 x 10			
Z Axis Dia.x Pitch	mmxmin	∅ 50 x 10			
Accuracy	mm/min	0.008 / 300			
<b>MISCELLANEOUS</b>					
Machine Net Weight	kg	10,500	12,000	13,000	14,000
Pneumatic Requirements	kg/cm <sup>2</sup>	6			
Hydraulic Requirements	kg/cm <sup>2</sup>	80			
Power Required	kVA	40kVA	45kVA	45kVA	50kVA

## Multi Controller CNC Standard Functions

- Controllable axes: 3+2
- Simultaneous axes control: 4 Axes
- Follow up
- Backlash compensation
- Pitch error compensation
- 2nd reference point
- Over traveler
- Workpiece coordinate
- Rotation coordinate(2D)
- Preset coordinate
- Customer macro B
- Programmer data Input
- M/S/T codes
- Rigid tapping
- Tool offset 200 pair
- Tool length compensation
- Cutter compensation
- Cam cycles
- Program register 400 Sets
- Background editing
- Clock display
- Self-diagnosis
- 10.4" TFT Screen
- Spindle orientation
- Smallest input unit: 0.001 Mm
- EIA/ISO control
- AICC control
- RS 232/RJ45 socket
- Graphic display
- Memory capacity: 1280m
- Data server

## Optional Accessories

- Chinese display
- HPCC high speed machining mode
- RISC & NURBS
- 4th-Axis Rotary Table
- 3D Coordinate rotation

## Standard Accessories

- Programmable coolant system
- Automatic lubrication system
- Chip auger & chain type chip conveyor
- Working lamp
- Pilot lamp
- Leveling bolts & pads
- RS-232 terminal interface port
- Tool box
- Automatic power off
- M.P.G
- Spindle cooling system
- Splash guard
- Three axes linear scales



Meldas M70V / M700V



SIEMENS 828D / 840DSL



HEIDENHAIN iTNC530



FANUC 311-B

