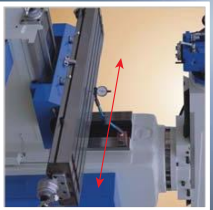


# Precision standard for quality examination

Paralleling degree of the working table



X-axis Total length is 0.03mm

Working table perpendicularity of longitude & latitude movement



X-axis, Y-axis 300mm/0.015mm

Hardness of the working table



The surface thermal treatment is not less than HRC48°

Main axis precision

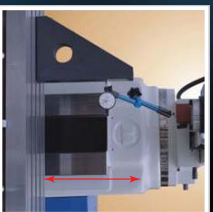


Radial skip of the centering axis neck of main axis: 0.01mm  
Skip of side-end of main axis: 0.02mm

## HEAD OFFICE

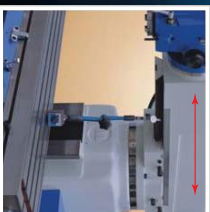
SMARTTECH QUALITY MACHINE CO., LTD.  
Add: Flat 2B, Block 31, Goldenfield Sea-View Garden, Xinzhou Road-S, Fulan District, Shenzhen 518048, Guangdong, China  
Tel: +86-755-83472116 Fax: +86-755-83472096  
E-mail: smartech@vip.sohu.com or walsen\_zheng@163.net

Perpendicularity of the working table and machine body



X-axis 300mm/0.02mm

Horizontal movement of flexible arm



300mm/0.035mm

Noise of the milling head



Noise Less than 72 decibel

Manual weight of Axis X & Y movement

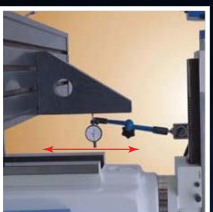


Manual Weight of Axis-X of No. 3 & 4 machine is less than 1.0kg, Axis-Y less than 1.5kg.  
Manual Weight of Axis-X of No. 5 machine is less than 1.5kg, Axis-Y less than 2.0kg.

## MANUFACTURE FACTORY BASE

SMARTTECH PRECISION MACHINE MANUFACTURING CO., LTD.  
Add: Kunyang Town, Jinning County, Kunming 650604, Yunnan, China  
Tel: +86-871-7883300 Fax: +86-871-7883338  
Http://www.zsmartech.en.alibaba.com  
Http://www.zsmartech.com

Main axis precision



Y-axis 300mm/0.02mm

Movement between the disk and the working platform



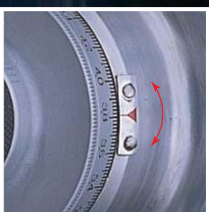
30° /0.035mm

Radial skip of the main axis bore



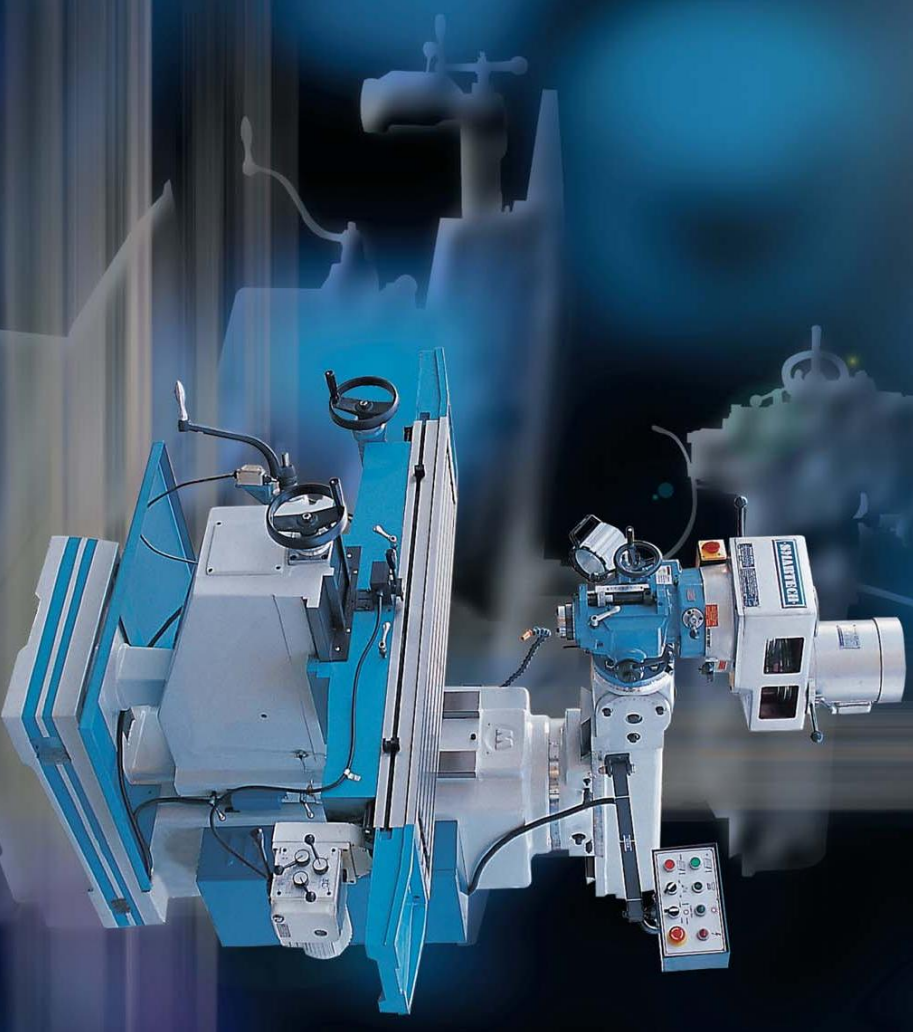
End-side near to the main axis: 0.01mm 300mm away from the end-side of the main axis:0.02mm

Clearance error of the screw on the scaling (front and back, right and left)



**SMARTTECH**  
QUALITY MACHINE

TURRET MILLING MACHINE



SMARTTECH QUALITY MACHINE CO., LTD.



## SM SERIES TURRET MILLING MACHINE

SPECIFICATION		
Slideways Structure	2SL/2VSL/2FSL	2SLB/2VSLB/2FSLB
Table Size	Y/Z: ▲ 124x230mm(49"x9")	Y: ■, Z: ▲
Travel	X 914mm(36")	Y 330mm(13")
	Z 305mm(12")	
	Quill 406mm(16")	
	Ram 127mm(5")	
Quill Diameter	0.04/0.08/0.15mm (0.0015"/0.003"/0.006")	
Quill Feed rate	2.25kw (3HP)	
Spindle Motor	R8/NT30/NT40 (3 optional choose)	
Spindle Taper	16 steps: 80-5440rpm	
Spindle Speed	Variable: 60-4200rpm	
	Infinity: 50-5000rpm	
Milling Head Tilt Angle	Back & Forward: ± 45°, Right & Left: ± 90°	
Distance from Table to Spindle	0-460mm(0-18")	
Distance from Column to Spindle	177-428mm(7"-19")	
Machine Weight	1000kg	1040kg
Dimension (LxWxH)	160x145x210cm	160x170x210cm



SPECIFICATION		
Slideways Structure	4SL/4VSL/4FSL	4SLB/4VSLB/4FSLB
Table Size	Y/Z: ■ 1370x250mm(54"x10")	
Travel	X 1000mm(40")	
	Y 420mm(16 1/2")	
	Z 420mm(16 1/2")	
	Quill 127mm(5")	
	Ram 580mm(22.8")	
Quill Diameter	0.04/0.08/0.15mm (0.0015"/0.003"/0.006")	
Quill Feed rate	3.75kw (5HP)	
Spindle Motor	NT40	
Spindle Taper	10 steps: 60-3600rpm	
Spindle Speed	Variable: 50-3750rpm	
	Infinity: 50-5000rpm	
Milling Head Tilt Angle	Back & Forward: ± 45° or fixed, Right & Left: ± 90°	
Distance from Table to Spindle	0-420mm(0-16.5")	
Distance from Column to Spindle	100-520mm(4"-21")	
Machine Weight	1680kg	1750kg
Dimension (LxWxH)	200x170x235cm	200x170x245cm

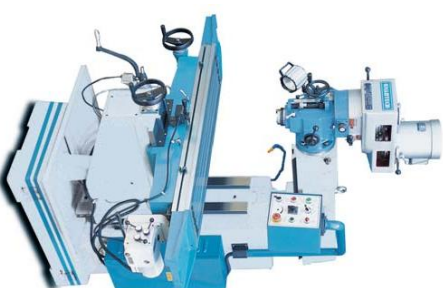
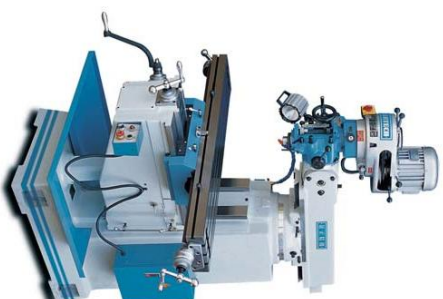


SPECIFICATION		
Slideways Structure	3SL/3VSL/3FSL	3SLB/3VSLB/3FSLB
Table Size	Y/Z: ▲ 1270x254mm(50"x10")	Y: ■, Z: ▲
Travel	X 914mm(36")	Y 406mm(16")
	Z 406mm(16")	
	Quill 127mm(5")	
	Ram 510mm(20")	
Quill Diameter	0.04/0.08/0.15mm (0.0015"/0.003"/0.006")	
Quill Feed rate	2.25kw (3HP)	
Spindle Motor	R8/NT30/NT40 (3 optional choose)	
Spindle Taper	16 steps: 80-5440rpm	
Spindle Speed	Variable: 60-4200rpm	
	Infinity: 50-5000rpm	
Milling Head Tilt Angle	Back & Forward: ± 45°, Right & Left: ± 90°	
Distance from Table to Spindle	0-460mm(0-18")	
Distance from Column to Spindle	155-665mm(6"-26")	
Machine Weight	1200kg	
Dimension (LxWxH)	175x170x220cm	

SPECIFICATION		
Slideways Structure	5SLA/5VSLA/5FSLA	5SLB/5VSLB/5FSLB
Table Size	Y/Z: ■, X axis wide saddle 1370x330mm(54"x13")	
Travel	X 850mm(33")	1014mm(40")
	Y 380mm(15")	420mm(16 1/2")
	Z 360mm(14.2")	
	Quill 127mm(5")	
	Ram 584mm(23")	
Quill Diameter	0.04/0.08/0.15mm (0.0015"/0.003"/0.006")	
Quill Feed rate	3.75kw (5HP)	
Spindle Motor	NT40	
Spindle Taper	10 steps: 60-3600rpm	
Spindle Speed	Variable: 50-3750rpm	
	Infinity: 50-5000rpm	
Milling Head Tilt Angle	Back & Forward: ± 45° or fixed, Right & Left: ± 90°	
Distance from Table to Spindle	0-420mm(0-16.5")	
Distance from Column to Spindle	172-766mm(6.8"-30")	
Machine Weight	2000kg	2100kg
Dimension (LxWxH)	220x180x235cm	235x184x235cm



SPECIFICATION		
Slideways Structure	4S/4V/4FS	4S/4V/4FSB
Table Size	Y/Z: ■ 1370x250mm(54"x10")	
Travel	X 1000mm(40")	
	Y 420mm(16 1/2")	
	Z 420mm(16 1/2")	
	Quill 127mm(5")	
	Ram 580mm(22.8")	
Quill Diameter	0.04/0.08/0.15mm (0.0015"/0.003"/0.006")	
Quill Feed rate	2.25kw (3HP)	
Spindle Motor	R8/NT30/NT40 (3 optional choose)	
Spindle Taper	16 steps: 80-5440rpm	
Spindle Speed	Variable: 60-4200rpm	
	Infinity: 50-5000rpm	
Milling Head Tilt Angle	Back & Forward: ± 45°, Right & Left: ± 90°	
Distance from Table to Spindle	0-420mm(0-16.5")	
Distance from Column to Spindle	100-520mm(4"-21")	
Machine Weight	1650kg	1720kg
Dimension (LxWxH)	200x170x230cm	200x170x240cm



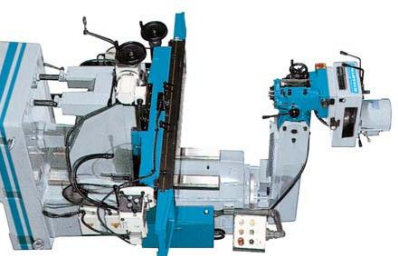
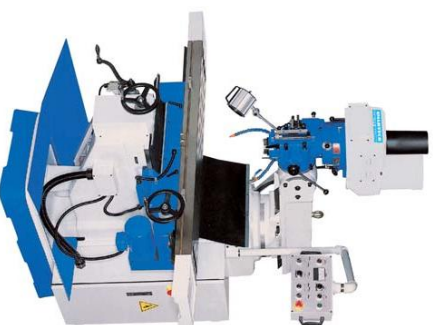
SPECIFICATION		
Slideways Structure	6SLA/6VSLA/6FSLA	6SLB/6VSLB/6FSLB
Table Size	Y/Z: ■, X axis wide saddle 1370x330mm(54"x13")	
Travel	X 850mm(33")	1014mm(40")
	Y 380mm(15")	420mm(16 1/2")
	Z 460mm(18")	
	Quill 127mm(5")	
	Ram 610mm(24")	
Quill Diameter	0.04/0.08/0.15mm (0.0015"/0.003"/0.006")	
Quill Feed rate	3.75kw (5HP)	
Spindle Motor	NT40	
Spindle Taper	10 steps: 60-3600rpm	
Spindle Speed	Variable: 50-3750rpm	
	Infinity: 50-5000rpm	
Milling Head Tilt Angle	Back & Forward: ± 45° or fixed, Right & Left: ± 90°	
Distance from Table to Spindle	100-560mm(4"-22")	
Distance from Column to Spindle	100-710mm(4"-28")	
Machine Weight	2200kg	2300kg
Dimension (LxWxH)	220x180x235cm	235x184x235cm

## SM SERIES TURRET MILLING MACHINE



SPECIFICATION		6SL/R6VSL/R6/FSLR	
Slideways Structure		Y/Z: ■ X axis wide saddle	
Table Size		1520x330mm(60"x13")	
Travel		X	1200mm(48")
		Y	420mm(16 1/2")
		Z	460mm(18")
		Quill	127mm(5")
		Ram	610mm(24")
Quill Diameter		0.04, 0.08, 0.15mm (0.0015", 0.003", 0.006")	
Quill Feed rate		3.75kw (5HP)	
Spindle Motor		NT40	
Spindle Taper		10 steps: 60-3600rpm	
Spindle Speed		Variable: 50-3750rpm	
		Infinity: 50-5000rpm	
Milling Head Tilt Angle		Back & Forward: ± 45 or fixed, Right & Left: ± 90°	
Distance from Table to Spindle		100-560mm(4"-22")	
Distance from Column to Spindle		100-710mm(4"-28")	
Machine Weight		2450kg	
Dimension (LxWxH)		255x184x255cm	

SPECIFICATION		6SLK6VSLK/6FSLK	
Slideways Structure		Y/Z: ■ X axis wide saddle	
Table Size		1370x330mm(54"x13")	
Travel		X	1014mm(40")
		Y	420mm(16 1/2")
		Z	460mm(18")
		Quill	127mm(5")
		Ram	610mm(24")
Quill Diameter		0.04, 0.08, 0.15mm (0.0015", 0.003", 0.006")	
Quill Feed rate		3.75kw (5HP)	
Spindle Motor		NT40	
Spindle Taper		10 steps: 60-3600rpm	
Spindle Speed		Variable: 50-3750rpm	
		Infinity: 50-5000rpm	
Milling Head Tilt Angle		Back & Forward: ± 45 or fixed, Right & Left: ± 90°	
Distance from Table to Spindle		100-560mm(4"-22")	
Distance from Column to Spindle		100-710mm(4"-28")	
Machine Weight		2400kg	
Dimension (LxWxH)		210x184x255cm	



SPECIFICATION		7SL/VSL/FSL		7SLB/VSLB/FSLB	
Slideways Structure		Y/Z: ■ X axis wide saddle			
Table Size		1370x360mm(54"x14")		1530x360mm(60"x14")	
Travel		X	1014mm(40")	1200mm(48")	
		Y	500mm(20")	500mm(20")	
		Z	470mm(18")	150mm(6")	
		Quill	150mm(6")	110mm(4.3")	
		Ram	660mm(26")	0.04, 0.08, 0.15mm (0.0015", 0.003", 0.006")	
Quill Diameter		0.04, 0.08, 0.15mm (0.0015", 0.003", 0.006")		5kw (7.5HP)	
Quill Feed rate		3.75kw (5HP)		NT40	
Spindle Motor		10 steps: 60-3600rpm		Variable: 50-3750rpm	
Spindle Taper		Variable: 50-3750rpm		Infinity: 50-5000rpm	
Spindle Speed		S		Back & Forward: ± 45 or fixed, Right & Left: ± 90°	
		F		100-570mm(4"-22.5")	
Milling Head Tilt Angle		Distance from Table to Spindle		100-770mm(4"-30")	
Distance from Column to Spindle		Machine Weight		2700kg	
Machine Weight		Dimension (LxWxH)		240x190x265cm	
				280x190x270cm	

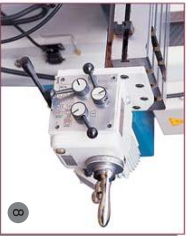
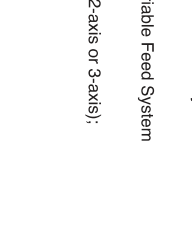
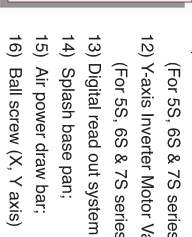
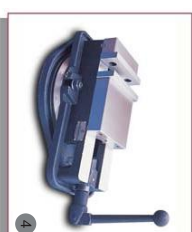
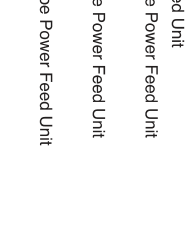
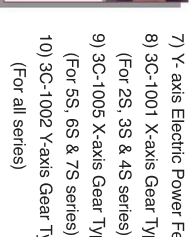
### Standard Accessories & Equipment:

- 1) Draw bar;
- 2) Electric control box;
- 3) Way rubber cover (front & back);
- 4) Halogen Working Lamp
- 5) Rapid Power Table Elevating System (For 4SL, 5S, 6S & 7S series)
- 6) Tools & Tool box;
- 7) Operation manual.



### Optional Accessories & Equipment:

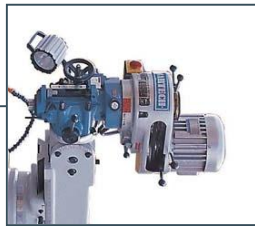
- 1) Collect chuck set (180 or NST30#, or NST40# );
- 2) Coolant system;
- 3) Luxury holagan working lamp;
- 4) 6" Angle lock machine vise;
- 5) 58 pos clamping kit set;
- 6) X-axis Electric Power Feed Unit
- 7) Y-axis Electric Power Feed Unit
- 8) 3C-1001 X-axis Gear Type Power Feed Unit (For 2S, 3S & 4S series)
- 9) 3C-1005 X-axis Gear Type Power Feed Unit (For 5S, 6S & 7S series)
- 10) 3C-1002 Y-axis Gear Type Power Feed Unit (For all series)
- 11) X-axis Inverter Motor Variable Feed System (For 5S, 6S & 7S series)
- 12) Y-axis Inverter Motor Variable Feed System (For 5S, 6S & 7S series)
- 13) Digital read out system (2-axis or 3-axis);
- 14) Splash base pan;
- 15) Air power draw bar;
- 16) Ball screw (X, Y axis)





## SM SERIES TURRET MILLING MACHINE

### MAJOR FEATURE OF TURRET MILLING MACHINE



• 3HP Step-pulley Milling Head



• 3HP square Step-pulley



• 3HP Variable Milling Head



• 3HP & 5HP Inverter Milling Head



• 5HP Step-pulley Milling head

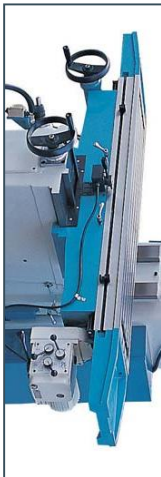


• 5HP Variable Milling Head



• Optional Fixed type connection between head and ram.

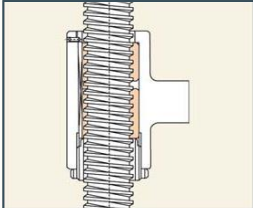
#### Optional Head Choose



• Wide saddle structure with screw inside of it to have better support to the table (For 5S, 6S & 7S series)



• Precise X & Y leadscrews features double nut compensator allow backlash to be eliminated.



• Superior Turcite-B coated on the adjunction surfaces to the slideways and with precise scraping.



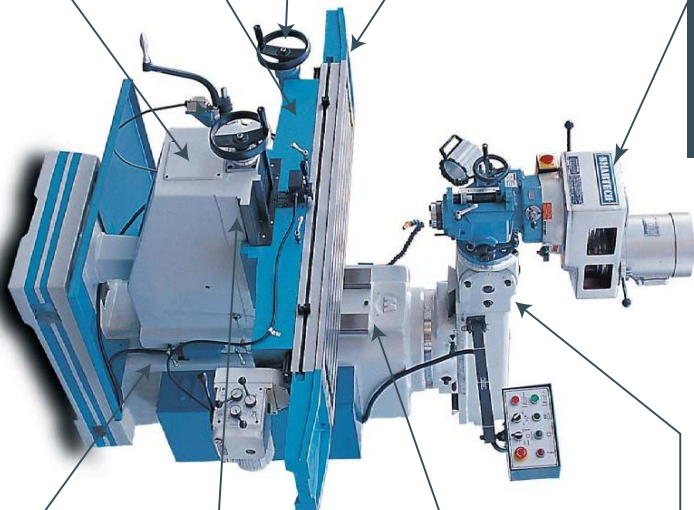
• Rapid Power Table Elevating System



(For 4S & 4SL series)



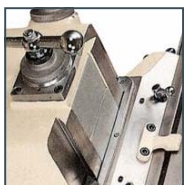
(For 5S, 6S & 7S series)



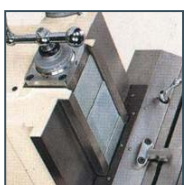
• shape column slide ways (For 2S & 3S series)



• shape column slide ways (For 4S, 5S, 6S & 7S series)



• shape cross slide ways (For 2SL & 3S series)



• shape cross slide ways (For 2SLB, 3SB, 4S, 5S, 6S & 7S series)



• High quality meehanite cast iron by resin mould then with annealing treatment to release stress, well designed inner structure, all for high strength and minimal deformation. Table and all slideways surface are harden and ground.

