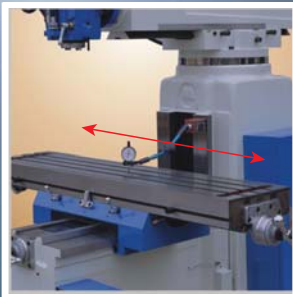
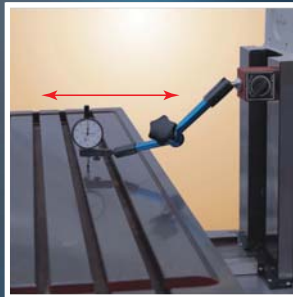


Precision standard for quality examination

Paralleling degree of the working table

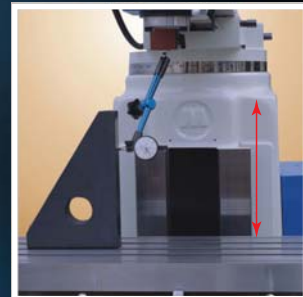


X-axis Total length is 0.03mm



Y-axis 300mm/0.02mm

Perpendicularity of the working table and machine body



X-axis 300mm/0.02mm



Y-axis 300mm/0.02mm

Working table:perpendicularity of longitude & latitude movement



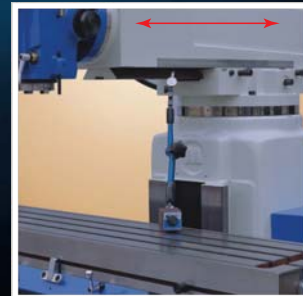
X-axis, Y-axis 300mm/0.015mm

Gap degree of the mounting bar between the X-axis and Y-axis of the base



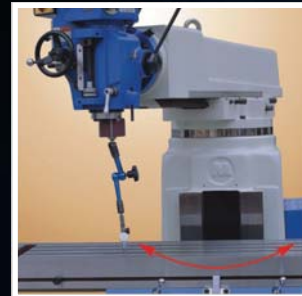
Not more than 0.10mm

Horizontal movement of flexible arm



300mm/0.035mm

Movement between the disk and the working platform



30° /0.035mm

Hardness of the working table



The surface thermal treatment is not less than HRC48°

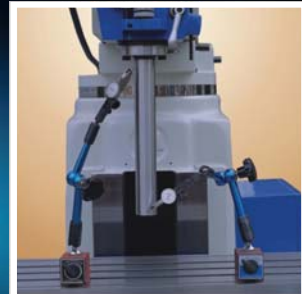


Noise of the milling head



Noise Less than 72 decibel

Main axis precision



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

Main axis precision

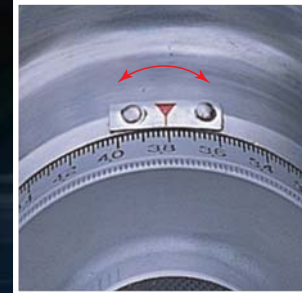
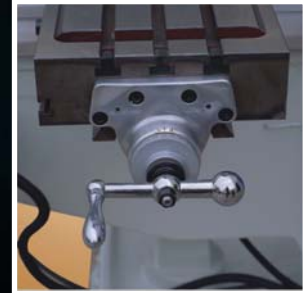


Radial skip of the centering axis neck
of main axis: 0.01mm
Skip of side-end of main axis: 0.02mm

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.



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

SMARTTECH
QUALITY MACHINE

TURRET MILLING MACHINE



HEAD OFFICE
SMARTTECH QUALITY MACHINE CO., LTD.

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Tel: +86-755-83472116 Fax: +86-755-83472096
E-mail:smartech@vip.sohu.com or walson_zheng@163.net

MANUFACTURE FACTORY BASE
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Http://www.zzsmartech.com

SMARTTECH QUALITY MACHINE CO., LTD.

SM SERIES TURRET MILLING MACHINE

SPECIFICATION		2SL/2VSL/2FSL	2SLB/2VSLB/2FSLB
Slideways Structure		Y/Z: ▲	Y: ■, Z: ▲
Table Size		1244x230mm(49"x9")	
Travel	X	914mm(36")	
	Y	305mm(12")	330mm(13")
	Z	406mm(16")	
Quill		127mm(5")	
	Ram	305mm(12")	
Quill Diamenter		86mm(3 3/8")	
Quill Feed rate		0.04,0.08,0.15mm (0.0015",0.003",0.006")	
Spindle Motor		2.25kw (3HP)	
Spindle Taper		R8/NT30/NT40 (3 optional choose)	
Spindle Speed	S	16 steps: 80-5440rpm	
	V	Variable: 60-4200rpm	
	F	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		4SL/4VSL/4FSL	4SLB/4VSLB/4FSLB
Slideways Structure		Y/Z: ■	
Table Size		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 Diamenter		105mm(4")	
Quill Feed rate		0.04,0.08,0.15mm (0.0015",0.003",0.006")	
Spindle Motor		3.75kw (5HP)	
Spindle Taper		NT40	
Spindle Speed	S	10 steps: 60-3600rpm	
	V	Variable: 50-3750rpm	
	F	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")	100-520mm(4"-21")
Distance from Column to Spindle		105-685mm(4"-27")	
Machine Weight		1680kg	1750kg
Dimension (LxWxH)		200x170x235cm	200x170x245cm



SPECIFICATION		3S/3VS/3FS	3SB/3VSB/3FSB
Slideways Structure		Y/Z: ▲	Y: ■, Z: ▲
Table Size		1270x254mm(50"x10")	
Travel	X	914mm(36")	
	Y	406mm(16")	
	Z	406mm(16")	
Quill		127mm(5")	
	Ram	510mm(20")	
Quill Diamenter		86mm(3 3/8")	
Quill Feed rate		0.04,0.08,0.15mm (0.0015",0.003",0.006")	
Spindle Motor		2.25kw (3HP)	
Spindle Taper		R8/NT30/NT40 (3 optional choose)	
Spindle Speed	S	16 steps: 80-5440rpm	
	V	Variable: 60-4200rpm	
	F	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		5SLA/5VSLA/5FSLA	5SLB/5VSLB/5FSLB
Slideways Structure		Y/Z: ■, X axis wide saddle	
Table Size		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 Diamenter		105mm(4")	
Quill Feed rate		0.04,0.08,0.15mm (0.0015",0.003",0.006")	
Spindle Motor		3.75kw (5HP)	
Spindle Taper		NT40	
Spindle Speed	S	10 steps: 60-3600rpm	
	V	Variable: 50-3750rpm	
	F	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")	100-500mm(4"-20")
Distance from Column to Spindle		172-756mm(6.8"-30")	
Machine Weight		2000kg	2100kg
Dimension (LxWxH)		220x180x235cm	235x184x235cm



SPECIFICATION		4S/4VS/4FS	4SB/4VSB/4FSB
Slideways Structure		Y/Z: ■	
Table Size		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 Diamenter		86mm(3 3/8")	
Quill Feed rate		0.04,0.08,0.15mm (0.0015",0.003",0.006")	
Spindle Motor		2.25kw (3HP)	
Spindle Taper		R8/NT30/NT40 (3 optional choose)	
Spindle Speed	S	16 steps: 80-5440rpm	
	V	Variable: 60-4200rpm	
	F	Infinity: 50-5000rpm	
Milling Head Tilt Angle		Back & Forward: ± 45°, Right & Left: ± 90°	
Distance from Table to Spindle		0-420mm(0-16.5")	100-520mm(4"-21")
Distance from Column to Spindle		105-685mm(4"-27")	
Machine Weight		1650kg	1720kg
Dimension (LxWxH)		200x170x230cm	200x170x240cm

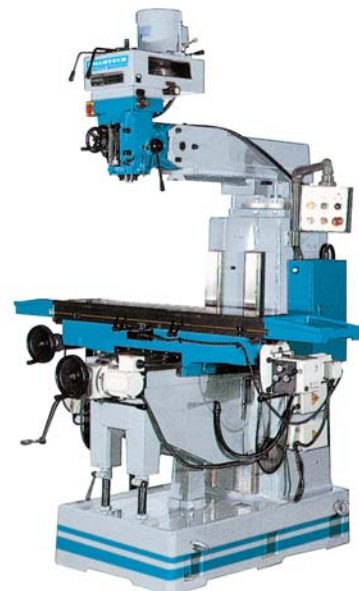


SPECIFICATION		6SLA/6VSLA/6FSLA	6SLB/6VSLB/6FSLB
Slideways Structure		Y/Z: ■, X axis wide saddle	
Table Size		1370x330mm(54"x13")	
Travel	X	850mm(33")	1014mm(40")
	Y	380mm(15")	420mm(16 1/2")
	Z	460mm(18")	
Quill		127mm(5")	
	Ram	610mm(24")	
Quill Diamenter		105mm(4")	
Quill Feed rate		0.04,0.08,0.15mm (0.0015",0.003",0.006")	
Spindle Motor		3.75kw (5HP)	
Spindle Taper		NT40	
Spindle Speed	S	10 steps: 60-3600rpm	
	V	Variable: 50-3750rpm	
	F	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)		220x180x255cm	235x184x255cm



SPECIFICATION		6SLR/6VSLR/6FSLR
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	Quill	127mm(5")
	Ram	610mm(24")
Quill Diamenter		105mm(4")
Quill Feed rate		0.04,0.08,0.15mm (0.0015",0.003",0.006")
Spindle Motor		3.75kw (5HP)
Spindle Taper		NT40
Spindle Speed	S	10 steps: 60-3600rpm
	V	Variable: 50-3750rpm
	F	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

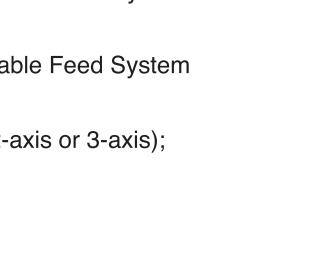
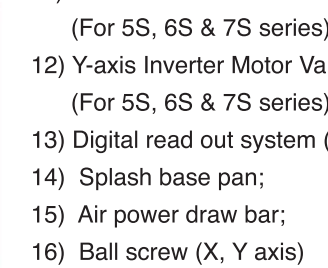
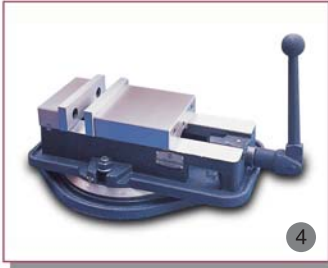
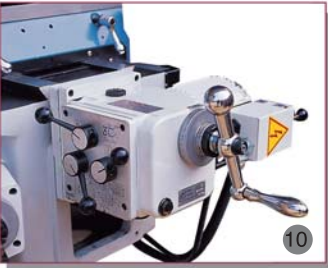
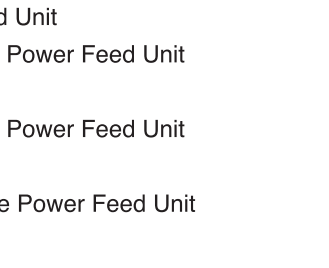
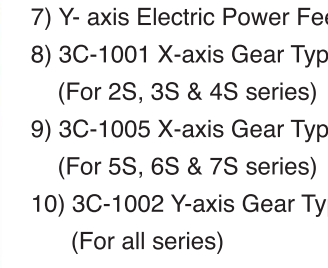
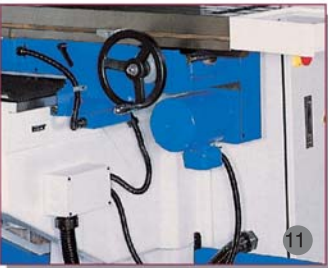
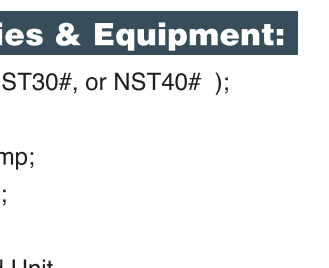
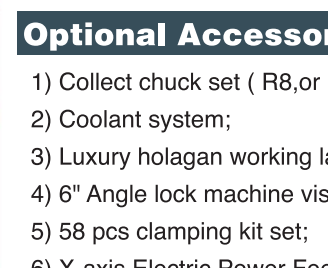
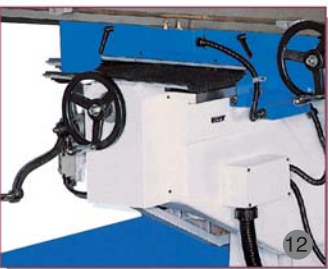
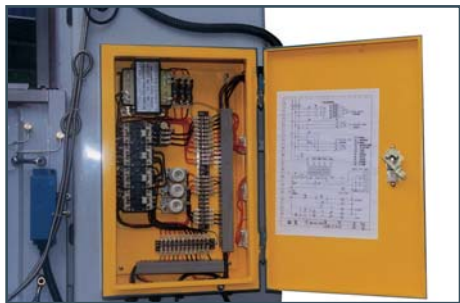
SPECIFICATION		6SLK/6VSLK/6FSLK
Slideways Structure		Y/Z: ■, X axis wide saddle
Table Size		1370x330mm(54"x13")
Travel	X	1014mm(40")
	Y	420mm(16 1/2")
	Z	460mm(18")
Quill	Quill	127mm(5")
	Ram	610mm(24")
Quill Diamenter		105mm(4")
Quill Feed rate		0.04,0.08,0.15mm (0.0015",0.003",0.006")
Spindle Motor		3.75kw (5HP)
Spindle Taper		NT40
Spindle Speed	S	10 steps: 60-3600rpm
	V	Variable: 50-3750rpm
	F	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/7VSL/7FSL	7SLB/7VSLB/7FSLB
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")	
Quill	Quill	150mm(6")	
	Ram	660mm(26")	
Quill Diamenter		105mm(4")	110mm(4.3")
Quill Feed rate		0.04,0.08,0.15mm (0.0015",0.003",0.006")	
Spindle Motor		3.75kw (5HP)	5kw (7.5HP)
Spindle Taper		NT40	
Spindle Speed	S	10 steps: 60-3600rpm	
	V	Variable: 50-3750rpm	
	F	Infinity: 50-5000rpm	
Milling Head Tilt Angle		Back & Forward: ± 45° or fixed, Right & Left: ± 90°	
Distance from Table to Spindle		100-570mm(4"-22.5")	
Distance from Column to Spindle		100-770mm(4"-30")	
Machine Weight		2700kg	2900kg
Dimension (LxWxH)		240x190x265cm	260x190x270cm

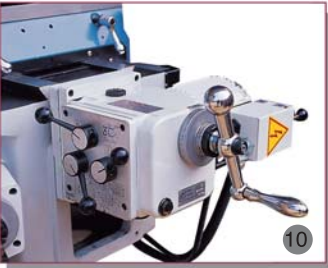
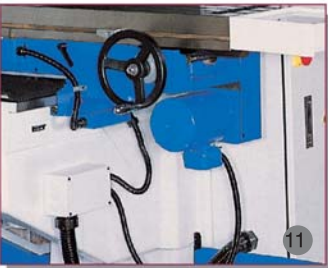
Standard Accessories & Equipment:

- 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 (R8, or NST30#, or NST40#);
- 2) Coolant system;
- 3) Luxury holagan working lamp;
- 4) 6" Angle lock machine vise;
- 5) 58 pcs 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.

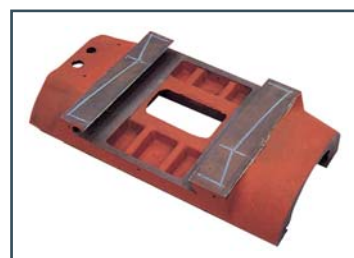
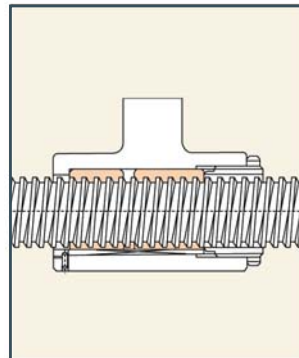
Optional Head Choose



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

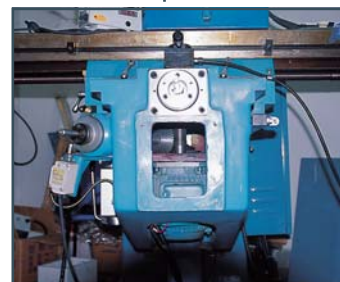


• Precise X & Y leadscrews features double nut compensator allow backlash to be eliminated.



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

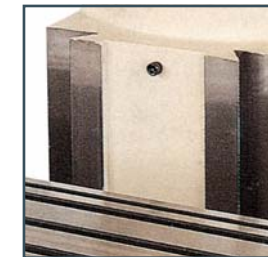
• Rapid Power Table Elevating System



(For 4S & 4SL series)



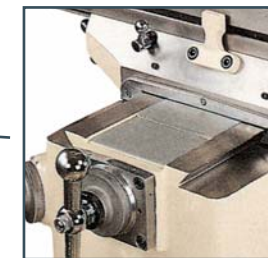
(For 5S, 6S & 7S series)



• ▲ 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 sideways surface are harden and ground.