



Features

- The spindle has three supporting points and good rigidity, Nitriding treatment is employed on the main surface, which enables the spindle to have high hardness and long service life.
- The spindle and feed speed change adopt manual rotary valve in the headstock.
- The motion distributed and clamping of headstock vertical travel, worktable Longitudinal and transverse travel and rotary motion all adopt automatic control and centralized operation, which result In. the saving of time and effort. Also making the machine convenient and reliable to use.
- The worktable is equipped with 4x90° optical positioning device, which assures high accuracy.
- The bed and lower saddle guide-ways adept full enclosure telescopic covers, which extends the service life of the guide ways.

Technical specification:

Model		Units	SHBM0211	SHBM0211/A	SHB0311	SHBM0813	SHBM1013
spindle	Spindle diameter	mm	110	110	110	130	130
	Spindle Taper	-	MorseNo6 (ISO7: 24 No50)	MorseNo6 (ISO7: 24 No50)	MorseNo6 (ISO7: 24 No50)	Metric 80 (optional ISO7: 24 No50)	Metric 80 (optional ISO7: 24 No50)
	Max. spindle torque	N.m	1225	1225	1225	3136	3136
	Max. spindle thrust	N	12250	12250	12250	31360	31360
	Number of spindle speed	-	22	22	22	24	24
	range of spindle speed	r/min	8-1000	8-1000	8-1000	4-800	4-800
	Power of main motor	Kw	7.5	7.5	7.5	15	15
Facing head	Max. facing torque	n.m	1960	1960	1960	4900	4900
	facing head diameter	mm	600	600	600	750	750
	Range of facing head speed	r/min	4-200	4-200	4-200	2.5-125	2.5-125
	Number of facing head speed	-	18	18	18	18	18
table	Table working surface (LxW)	mm	1100x960	1100x960	1250x1100	1600x1400	1800x1600
	Max. permissible load on table	kg	2500	2500	3000	8000	10000
	t- slot	mm	22	22	22	28	28
	Number of t-slot	-	7	7	7	9	11
Working range	x-axis travel	mm	900	1250	1600	1600	2000
	y-axis travel	mm	900	900	1200	1400	1800
	z-axis travel	mm	1400	1400	1400	2000	2000
	w-axis travel (spindle travel)	mm	600	600	600	900	900
	U-axis travel (facing slide travel)	mm	180	180	180	250	250
	B-axis worktable rotary	°	360	360	360	360	360
	Distance between spindle axis and table surface	mm	0	0	0	0	0
Feed range of revolution	Rapid travel(X/Y/Z)	Mm/min	2500	2500	2500	2500	2500
	Range of axes speed per spindle revelation (X/Y/Z)	Mm/rev	0.4-6/0.01-1.88	0.4-6/0.01-1.88	0.4-6/0.01-1.88	0.5-8/0.01-2	0.5-8/0.01-2
	Feed range (X/Y/Z)	Mm/min	-	-	-	-	-
precision	Measurement system reading precision (X/Y/Z) (Z-axes measurement optional)	mm	0.005	0.005	0.005	0.005	0.005
	B-axis measurement system reading precision (B-axis measurement optional)	°	0.001	0.001	0.001	0.001	0.001
General parameter items	Overall dimensions (LxWxH)	mm	4910x2454x2750	4910x2454x2750	5120x3380x3100	6995x3647x3442	7030x4665x3800
	Weight of machine	kg	13000	14500	18000	24500	29300

Model	Units	SHBM0311/A	SHBM0813/A	SHB1013/A	
spindle	Spindle diameter	mm	110	130	130
	Spindle Taper	-	(ISO7: 24 No50)	(ISO7: 24 No50)	(ISO7: 24 No50)
	Max. spindle torque	N.m	1250	2950	2950
	Max. spindle thrust	N	12250	31360	31360
	Number of spindle speed	-	Step less	Step less	Step less
	range of spindle speed	r/min	8-1100	8-800	8-800
	Power of main motor	Kw	15	18.5	18.5
Facing head	Max. facing torque	n.m	1960	4694	4694
	facing head diameter	mm	630	750	750
	Range of facing head speed	r/min	4-200	2.5-125	2.5-125
	Number of facing head speed	-	18	18	18
table	Table working surface (LxW)	mm	1250X110	1600X1400	1800X1600
	Max. permissible load on table	kg	3000	8000	10000
	t- slot	mm	22	28	28
	Number of t-slot	-	10	10	10
Working range	x-axis travel	mm	1600	1600	2000
	y-axis travel	mm	1200	1400	1800
	z-axis travel	mm	1400(no rear column)	1500	2000(no rear column)
	w-axis travel (spindle travel)	mm	600	900	900
	U-axis travel (facing slide travel)	mm	180	250	250
	B-axis worktable rotary	°	360	360	360
	Distance between spindle axis and table surface	mm	0	0	0
Feed range of revolution	Rapid travel(X/Y/Z)	Mm/min	2500	2500	2500
	Range of axes speed per spindle revelation (X/Y/Z)	Mm/rev	-		
	Feed range (X/Y/Z)	Mm/min	0.32-2500	0.32-2500	0.32-2500
precision	Measurement system reading precision (X/Y/Z) (Z-axes measurement optional)	mm	0.005	0.005	0.005
	B-axis measurement system reading precision (B-axis measurement optional)	°	0.001	0.001	0.001
General parameter items	Overall dimensions (LxWxH)	mm	5120x3380x3100	6995x3647x3442	7030x4665x3800
	Weight of machine	kg	18000	24500	29300



Feature:

- This machine consists of bed, column, saddle and headstock, the spindle headstock travels vertically along column guide ways. The spindle headstock column and saddle travel horizontally along machine bed guide way .
- All basic and key parts of tile machine are made of high strength which makes the machine obtain ideal rigidity and long-term accuracy preservation,
- The saddle guide way's adopt compound structure of plastic anti-friction material against the bed-way.It has the characteristic of low friction coefficient and provides smooth and durable movement for moving component.
- The speed change of spindle rotating and axis; feeding adopt hydraulic preselection and centralized operation.
- The motion distribution of employ a convenient and reliable automatic control.

Technical specification:

Model	Units	SHBM0311/B	SHBM0813/B	
spindle	Spindle diameter	mm	110	130
	Spindle Taper	-	Morse No6 (Optional ISO7: 24 No50)	Metric 80 (Optional ISO7: 24 No50)
	Max. spindle torque	N.m	1225	3136
	Max. spindle thrust	N	12250	31360
	Number of spindle speed	-	22	24
	range of spindle speed	r/min	8-1100	4-800
	Power of main motor	Kw	7.5	15
Facing head	Max. facing torque	n.m	1960	4900
	facing head diameter	mm	630	750
	Range of facing head speed	r/min	4-200	2.5-125
	Number of facing head speed	-	18	18
table	Table		Special offer accessory	Special offer accessory
Working range	x-axis travel	mm	2000(longer option is available)	1750(longer option is available)
	y-axis travel	mm	1600	1600/2000/2500
	w-axis travel (spindle travel)	mm	600	900
	U-axis travel (facing slide travel)	mm	180	250
Feed range of revolution	Rapid travel(X/Y/Z)	Mm/min	2500	2500
	Range of axes speed per spindle revelation (X/Y/Z)	Mm/rev	0.04-6/0.01-1.88	0.05-8/0.01-2
precision	Measurement system reading precision (X/Y)	mm	0.005	0.005
General parameter items	Overall dimensions (LxWxH)	mm	Depending on specification, Detailed information	Depending on specification, Detailed information
	Weight of machine	kg	Depending on specification, Detailed information	Depending on specification, Detailed information



Feature:

- This machine consists of headstock, Column, saddle and worktable, The longitudinal movement of saddle travels along machine bed guide ways. The transverse movement of worktable travels along worktable guide way.
- All basic and key parts of the machine are made of high strength casting, which makes the machine obtain ideal rigidity and long-term accuracy preservation.
- The saddle and worktable guide ways adopt compound structure of plastic anti-friction material against bed-way. It has the characteristic of low friction coefficient, and provides smooth and durable movement for moving components.
- The speed change of spindle rotating and axis feeding incorporate hydraulic pre selection and centralized operation.
- The motion distribution of headstock and saddle and the damping of each part adopt automatic control, which is convenient and reliable.

Technical specification:

Model		Units	SHBM0311/C	SHBM0813/C
spindle	Spindle diameter	mm	110	130
	Spindle Taper	-	Morse No6 (Optional ISO7: 24 No50)	Metric 80 (Optional ISO7: 24 No50)
	Max. spindle torque	N.m	1225	3136
	Max. spindle thrust	N	12250	31360
	Number of spindle speed	-	22	24
	range of spindle speed	r/min	8-1000	4-800
Facing head	Power of main motor	Kw	7.5	15
	Max. facing torque	n.m	1960	4900
	facing head diameter	mm	630	750
	Range of facing head speed	r/min	4-200	2.5-125
table	Number of facing head speed	-	18	18
	Table		Available upon request	Available upon request
Working range	x-axis travel	mm	Available upon request	Available upon request
	y-axis travel(Y1/Y2)	mm	1600	1600
	z-axis travel(Z1/WZ2)	mm	500/1000/1250	500/1000/1250
	w-axis travel (W1/W2)	mm	600	900
	U-axis travel (U1/U2)	mm	180	250
Feed range of revolution	Rapid travel(X/Y/Z)	Mm/min	2500	2500
	Feed range (x)	Mm/min	2.5-112	2.5-112
	Range of axes speed per spindle revelation (X/Y/Z)	Mm/rev	0.04-6/0.01-1.88	0.05-8/0.01-2
precision	Measurement system reading precision (X/Y)	mm	0.005	0.005
General parameter items	Overall dimensions (LxWxH)	mm	Depending on specification, Detailed information	Depending on specification, Detailed information
	Weight of machine	kg	Depending on specification, Detailed information	Depending on specification, Detailed information