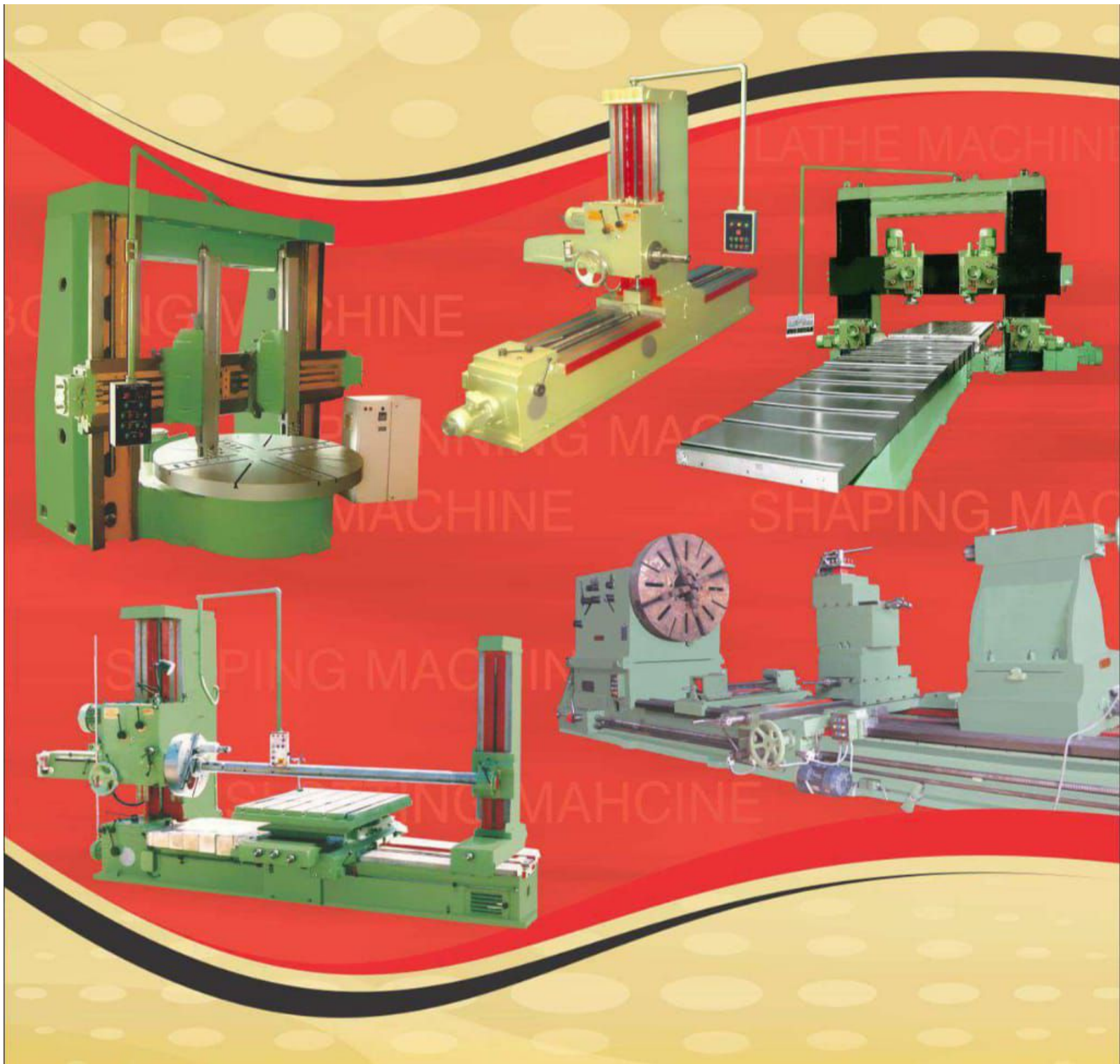
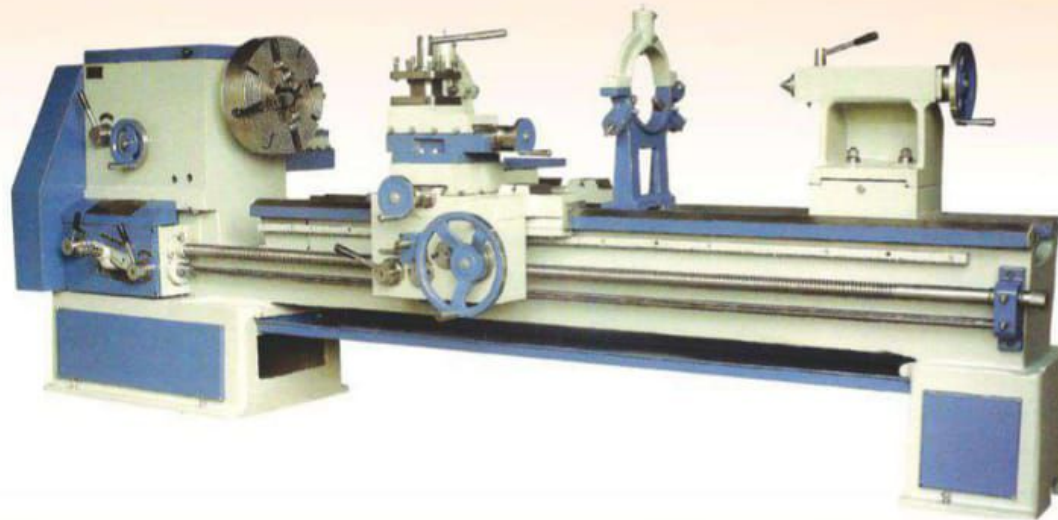


 <p>महागडौंस डॉक लिमिटेड MAZAGON DOCK LIMITED (A Govt. of India Undertaking)</p>	<p>I N D I A N</p>  <p>N A V Y</p> <p>श्री नौ चक्रा</p>	 <p>हमारे लोग हमारी ताकत</p> <p>Naval Dockyard Visakhapatnam</p>	<p>ABG ABG Shipyards Limited</p>	 <p>हि ए लि HAL</p> <p>Hindustan Aeronautics Limited</p>
 <p>भारतीय रेल INDIAN RAILWAY</p>	<p>IRIT ITES</p>	 <p>मारी बान निर्माणा अवडी</p> <p>AVADI</p>	 <p>मारी बान निर्माणा अवडी</p> <p>AVADI</p>	 <p>MIDHANI</p>
 <p>एसजेवीएन SJVN</p> <p>Sathuj Jal Vidyut Nigam Ltd</p>	<p>VOITH</p>	<p>TOSHIBA Leading Innovation >>></p>	<p>बी एच ई एल BHEL</p>	 <p>ADANI Power Limited</p>
<p>LAFARGE</p>	 <p>BIRLA CORPORATION LIMITED MP BIRLA GROUP</p>	<p>Ambuja Cement</p>		<p>AFCONS AFCONS INFRASTRUCTURE LIMITED</p>
 <p>CETHAR LIMITED</p>	 <p>DOOSAN</p>	 <p>mbe beyond engineering</p>	 <p>ELECTROTHERM</p>	 <p>JINDAL</p>
<p>NCC NCC Limited</p>	 <p>OSCO BUILT ON TRUST</p>	 <p>BHUSHAN BHUSHAN STEEL LIMITED</p>	<p>TVS TYRES RIDE SMART WITH ROADSENSE</p>	 <p>WINDLASS</p>





SPECIFICATIONS

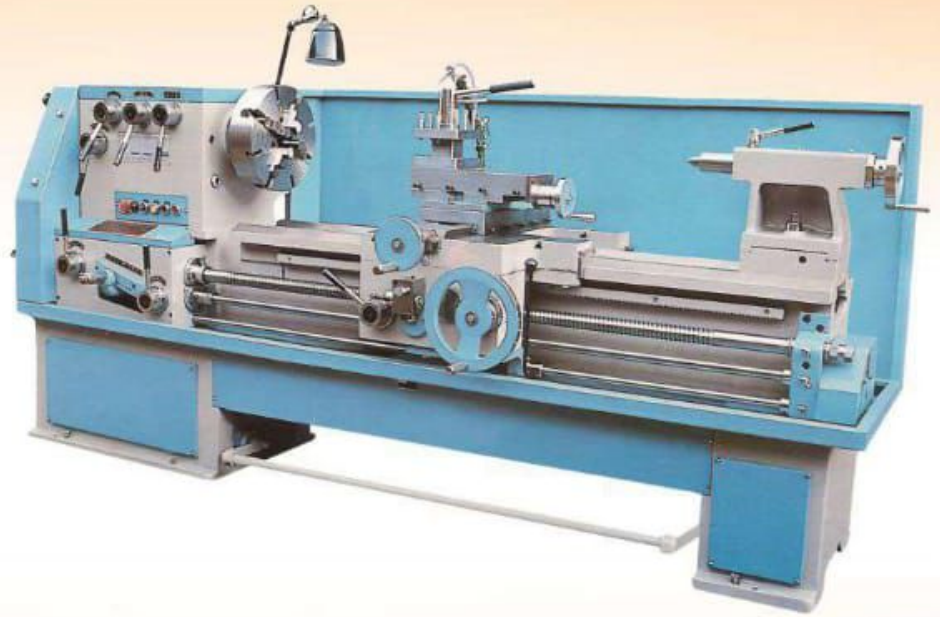
MODEL	SL 6	SL 8	SL 10	SL 12a	SL 12b	SL 12c
Length of Bed	6ft/1828mm	8ft/2438mm	10ft/3048mm	12ft/3657mm	12ft/3657mm	12ft/3657mm
Width of Bed	14inch/350mm	16inch/400mm	18inch/450mm	20inch/500mm	22inch/550mm	24inch/600mm
Height of Center	12inch/300mm	14inch/350mm	16inch/400mm	18inch/450mm	20inch/500mm	22inch/550mm
Swing over Slide	16inch/400mm	20inch/500mm	24inch/600mm	26inch/650mm	30inch/750mm	32inch/800mm
Swing in Gap	34inch/865mm	40inch/1016mm	44inch/1117mm	54inch/1370mm	58inch/1473mm	62inch/1574mm
Admit Between Centers	33inch/838mm	54inch/1371mm	72inch/1830mm	84inch/2133mm	80inch/2032mm	78inch/1980mm
Spindle Hollow	2-1/2"/65mm	3-1/8"/80mm	3-5/8"/88mm	4-1/8"/103mm	4-1/8"/103mm	4-1/8"/103mm
Type of Bed	Pedestals	Pedestals	Pedestals	Planner	Planner	Planner
Hp. Required	2*960	2*960	3*960	3*960	3*960	5*960
T.P.I. of Lead Screw	2	2	2	2	2	2

• STANDARD ACCESSORIES

Steady rest, Follow rest, Change gears & Motor Plate

• OPTIONAL ACCESSORIES

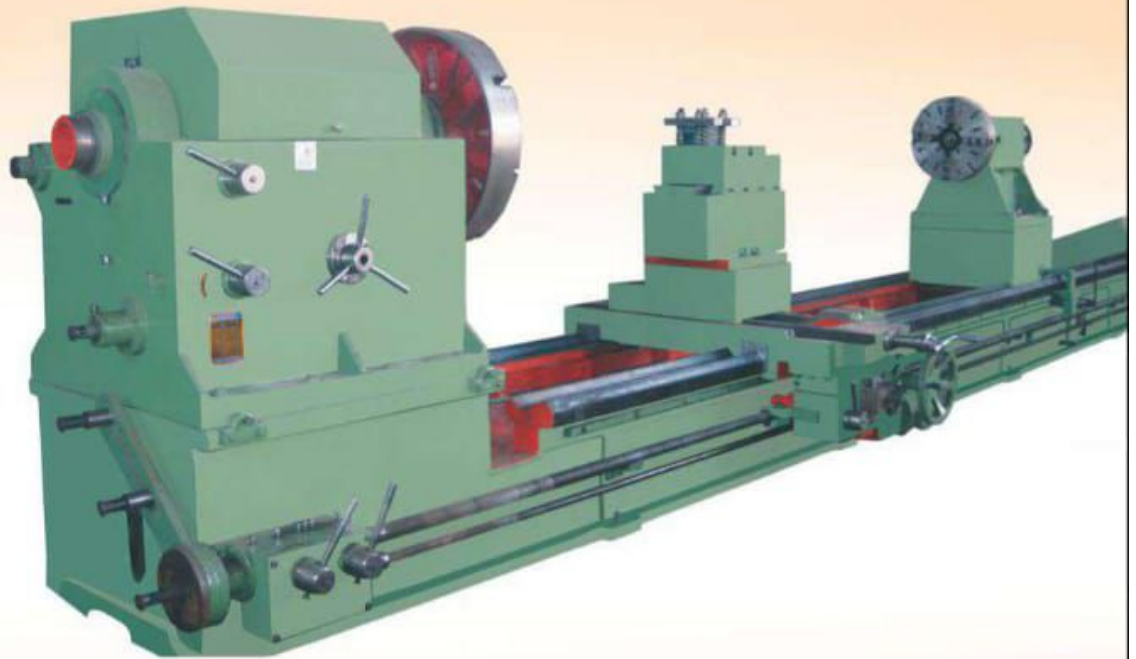
Dog Chuck, True Chuck, Coolant Pump, Electrical, Taper Turning Attachment, Key Way Cutting Attachment & Grinding Attachment



SPECIFICATIONS

MODEL	SGL6	SGL8	SGL10	SGL12	SGL14
Bed Length	6 ½ ft	8 ½ ft	10 ½ ft	12ft	14ft
Width of bed	375mm	450mm	500mm	550mm	600mm
Height of center	300mm	400mm	450mm	500mm	550mm
Swing over bed	600mm	800mm	900mm	1000mm	1100mm
Swing over cross slide	325mm	530mm	610mm	660mm	710mm
Swing in gap	865mm	1200mm	1300mm	1350mm	1500mm
Admit between centers	1000mm	1300mm	1800mm	2000mm	2500mm
No's of spindle speeds	8	9	8	8	8
RPM Range	30-720	30-720	25-475	25-275	25-275
Spindle Hollow	65mm	90mm	105mm	103mm	103mm
Metric Threads	1-14mm	1-14mm	1-14mm	1-14mm	1-14mm
With Worth Threads TPI	2-30TPI	2-30TPI	2-30TPI	2-30TPI	2-30TPI
D.P. Threads	6-80DP	6-80DP	6-80DP	6-80DP	6-80DP
No of Feeds	30	30	30	30	30
Range of Long Feed	0.2 to 3.0mm	0.2 to 3.0mm	0.2 to 3.0mm	0.2 to 3.0mm	0.2 to 3.0mm
Range of Transverse feed	0.033 to 0.50	0.033 to 0.50	0.033 to 0.50	0.033 to 0.50	0.033 to 0.50
Electric motor Hp/Rpm	3*1440	5*1440	7.5*1440	7.5*1440	10*1440

- **STANDARD ACCESSORIES** : Steady rest, Follow rest, Change gears & Electric Motor with Control Panel
- **OPTIONAL ACCESSORIES** : Dog Chuck, True Chuck, Coolant Pump, Taper Turning Attachment, Key Way Cutting Attachment, Grinding Attachment & D.R.O



SPECIFICATIONS

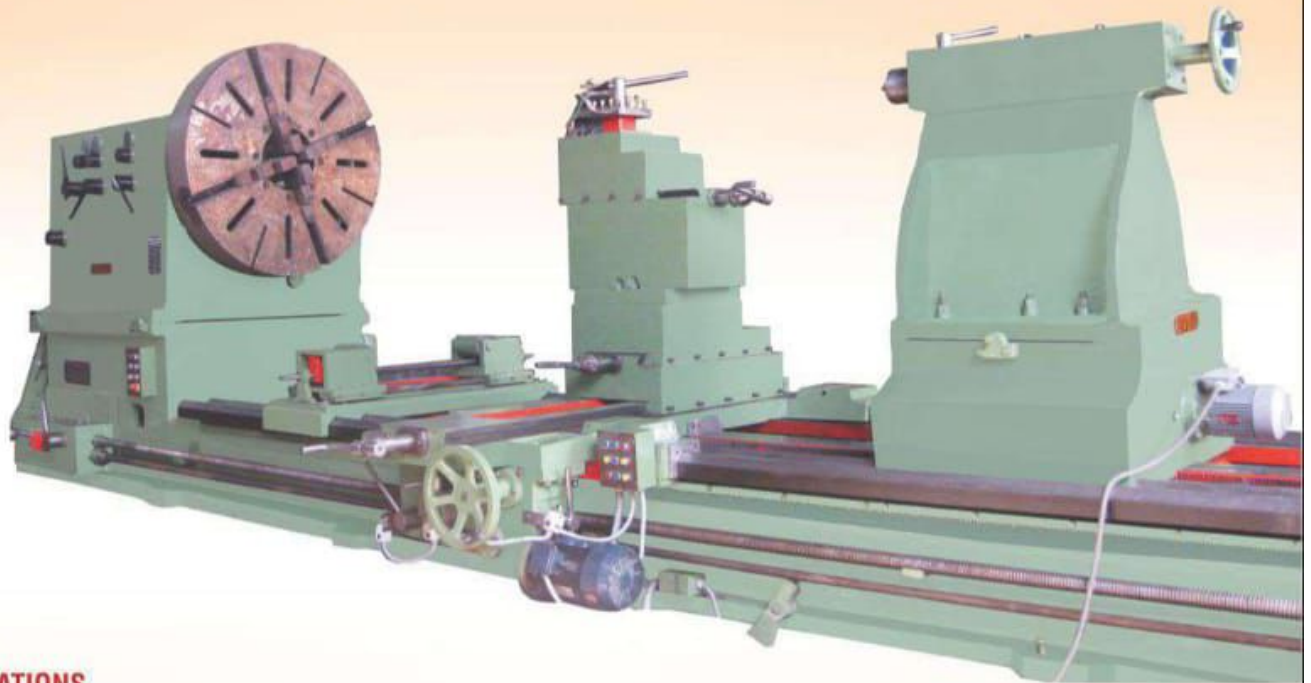
MODEL	SHL 16mm	SHL 20mm	SHL 20mmB	SHL 26mm	SHL 26mmB	SHL 30mm	SHL 30mmB	SHL 36mm	SHL 40mm	SHL 40mmB	SHL 48mm	SHL 60mm	SHL 80mm
Length of Bed	4900	6100	6100	7900	7900	9150	9150	10970	12200	12200	14600	18300	24400
Width of Bed	650	650	750	750	800	900	1050	1150	1150	1250	1500	1650	1800
Height of Center	600	600	700	700	750	850	1000	1100	1100	1150	1350	1500	1650
Distance Between Center	2850	4050	4000	5800	5500	6800	6700	8400	9600	9500	11900	15500	21500
Spindle Hollow	103	103	103	103	103	103	127	127	127	150	150	150	150
Swing over Saddle (Dia)	900	900	1100	1100	1200	1400	1650	1850	1850	1950	2300	2600	2900
Swing Over Bed (Dia)	1200	1200	1400	1400	1500	1700	2000	2200	2200	2300	2700	3000	3300
Swing Over Gap (Dia)	1700	1700	1900	1900	2000	2200	2500	2700	2700	2800	3200	3500	3800
No. of Spindle Speeds	6	6	6	6	6	6	6	6	6	6	6	6	6
Lead Screw Dia	60	60	60	60	60	60	60	75	75	75	85	85	85
Lead Screw Pitch T.P.I.	2	2	2	2	2	2	2	2	2	2	2	2	2
H.P. Recommended	7.5	7.5	10	10	15	20	20	25	25	30	30	40	40

• STANDARD ACCESSORIES

Steady rest, Follow rest, Change gears & Motor Plate

• OPTIONAL ACCESSORIES

Dog Chuck, Motorized Apron Gear Box, Revolving Tailstock, Fabricated Roller Guides, Coolant Pump, Electrical, Taper Turning Attachment, Key Way Cutting Attachment & Grinding Attachment



SPECIFICATIONS

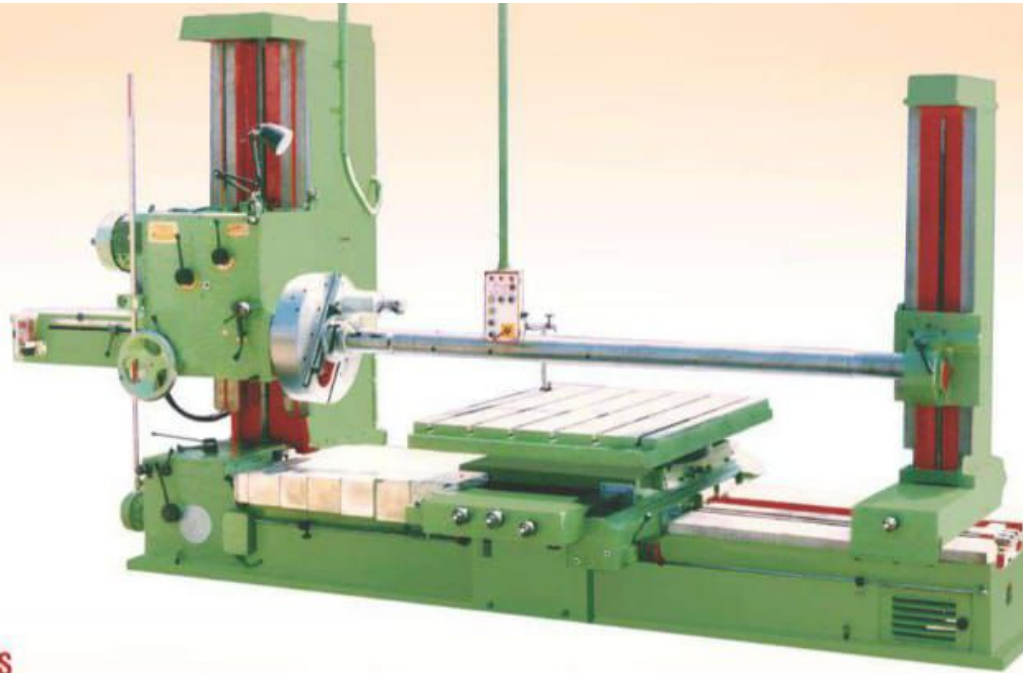
MODEL	SGL 16mm	SGL 20mm	SGL 20mmB	SGL 26mm	SGL 26mmB	SGL 30mm	SGL 30mmB	SGL 36mm	SGL 40mm	SGL 40mmB	SGL 48mm	SGL 60mm	SGL 80mm
Length of Bed	4900	6100	6100	7900	7900	9150	9150	10970	12200	12200	14600	18300	24400
Width of Bed	650	650	750	750	800	900	1050	1150	1150	1250	1500	1650	1800
Height of Center	600	600	700	700	750	850	1000	1100	1100	1150	1350	1500	1650
Distance Between Center	2850	4050	4000	5800	5500	6800	6700	8400	9600	9500	11900	15500	21500
Spindle Hollow	103	103	103	103	103	103	127	127	127	150	150	150	150
Swing over Saddle (Dia)	900	900	1100	1100	1200	1400	1650	1850	1850	1950	2300	2600	2900
Swing Over Bed (Dia)	1200	1200	1400	1400	1500	1700	2000	2200	2200	2300	2700	3000	3300
Swing Over Gap (Dia)	1700	1700	1900	1900	2000	2200	2500	2700	2700	2800	3200	3500	3800
No. of Spindle Speeds	8	8	8	8	8	8	8	8	8	8	8	8	8
RPM Range	10-300	10-300	5-150	5-150	3-85	3-85	3-85	2-50	2-50	2-50	2-50	2-50	1-40
Lead Screw Dia	60	60	60	60	60	60	75	75	75	75	85	85	85
Lead Screw Pitch T.P.I.	2	2	2	2	2	2	2	2	2	2	2	2	2
H.P. Recommended	10	10	15	15	20	20	25	30	30	30	40	50	50

• STANDARD ACCESSORIES

Steady rest, Follow rest, Change gears
& Electric Motor with Control Panel

• OPTIONAL ACCESSORIES

Dog Chuck, Motorized Apron Gear Box, Revolving Tailstock,
Fabricated Roller Guides, Coolant Pump, Taper Turning Attachment,
Key Way Cutting Attachment, Grinding Attachment & D.R.O



SPECIFICATIONS

MODEL NO	SHB80	SHB100	SHB110	SHB125	SHB130	SHB150
Alloy Steel Work Spindle Hardened & Ground-Diameter	80	100	110	125	130	150
Morse Taper Number	5	6	6	6	6	6
Max. Longitudinal Movements of Working Spindle	510	510	510	600	600	650
Number of Spindle Speeds	9	9	9	9	9	9
Range of Spindle Speeds – R.P.M.	15 to 300	15 to 250	15 to 250	15 to 250	15 to 250	12 to 250
Longitudinal Work Spindle Feeds Nos.	9	9	9	9	9	9
Max. Height of the Spindle Axis from Table Surface	925	1000	1100	1200	1300	1500
Min. Height of the Spindle Axis from Table Surface	25	30	30	30	30	30
Dimensions of the Rotary Table	900*1105	1030*1375	1100*1450	1200*1675	1320*1775	1500*2000
Longitudinal table Traverse	1625	1775	1925	2050	2800	2950
Long. Table Traverse Feeds (Including one Rapid)	10	10	10	10	10	10
Transversal Table Travel Feeds (Including one Rapid)	10	10	10	10	10	10
Vertical Head Stock Travel Feeds (Including one Rapid)	4	4	4	10	10	10
Rotary Table Automatic Feeds (Including one Rapid)	10	10	10	10	10	10
Max. Cross Movement of the Table	1000	1100	1300	1500	2000	2000
Max. Distance between Stay Bearing & Facing Head	2400	2690	2800	2950	3600	3950
Facing Head Diameter	505	555	600	650	650	700
Weight Approx. in Kgs.	8500	9500	11000	16000	17000	19000

• STANDARD ACCESSORIES

Facing Head, Boring Bar, Electric Motors with Control Panel

• OPTIONAL ACCESSORIES

Milling Attachment, Taper Turning Attachment, Threading Attachment & D.R.O



SPECIFICATIONS

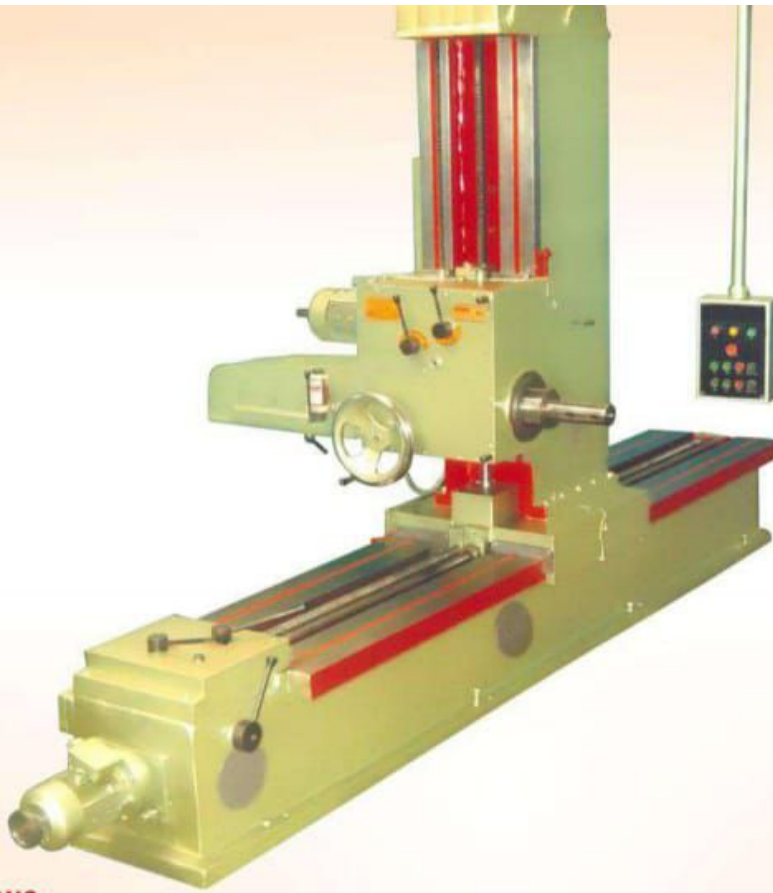
MODEL NO.	Unit	SVT-2	SVT-2.5	SVT-3	SVT-4	SVT-5	SVT-6
Table Diameter	MM	2000	2500	3000	4000	5000	6000
Side Head Below The Table Top	MM	2250	2750	3500	4500	5500	6500
Max. Turning Dia with Side Head in Working Position	MM	2050	2550	3300	4300	5300	6300
Max. Working Height Under Cross Rail	MM	1500	1500	2000	2000	2500	2500
Vertical Travel of Ram Head	MM	700	800	900	1000	1000	1000
Swivel Angle of Ram Head	DEG.	45	45	45	45	45	45
Horizontal Travel of Side Head	MM	700	800	900	1000	1000	1000
Max. Vertical Travel of Side Head	MM	1250	1250	1750	1750	2000	2000
Table Speed	RPM	STEPLESS INFINITLY VARIABLE SPEEDS WITH AC VARIABLE FREQUENCY DRIVE					
Feeds Horizontal & Vertical	NO.	6	6	6	6	6	6
Range	MM/MIN.	1-6.5	1-6.5	1-6.5	1-6.5	1-6.5	1-6.5
Main Motor	H.P.	25	30	40	40	50	60
Approx. Weight of Machine	M.T.	21	25	35	45	55	70

Standard Accessories

One Ram on Cross Rail, Four Jaw Chuck & Electrical

OPTIONAL ACCESSORIES

Additional Ram Head on Cross Rail, Side Ram Head & D.R.O



SPECIFICATIONS

MODEL NO	MM	MM	MM	MM	MM	MM	MM
Alloy Steel Work Spindle Hardened & Ground Diameter	80	100	110	125	130	150	180
Morse Taper Number	4	5	5	6	6	6	7
Max. Longitudinal Movements of Working Spindle	500	510	510	600	600	650	750
Number of Spindle Speeds	9	9	9	9	9	9	9
Range of Spindle Speeds – R.P.M	15 to 250	15 to 250	15 to 250	15 to 250	15 to 250	15 to 250	15 to 250
Longitudinal Work Spindle Feed No's	9	9	9	9	9	9	9
Vertical Headstock Travel Feeds (Including One Rapid)	4	4	4	4	4	4	4

Max. Height of the Spindle Axis 1000 TO 3000MM

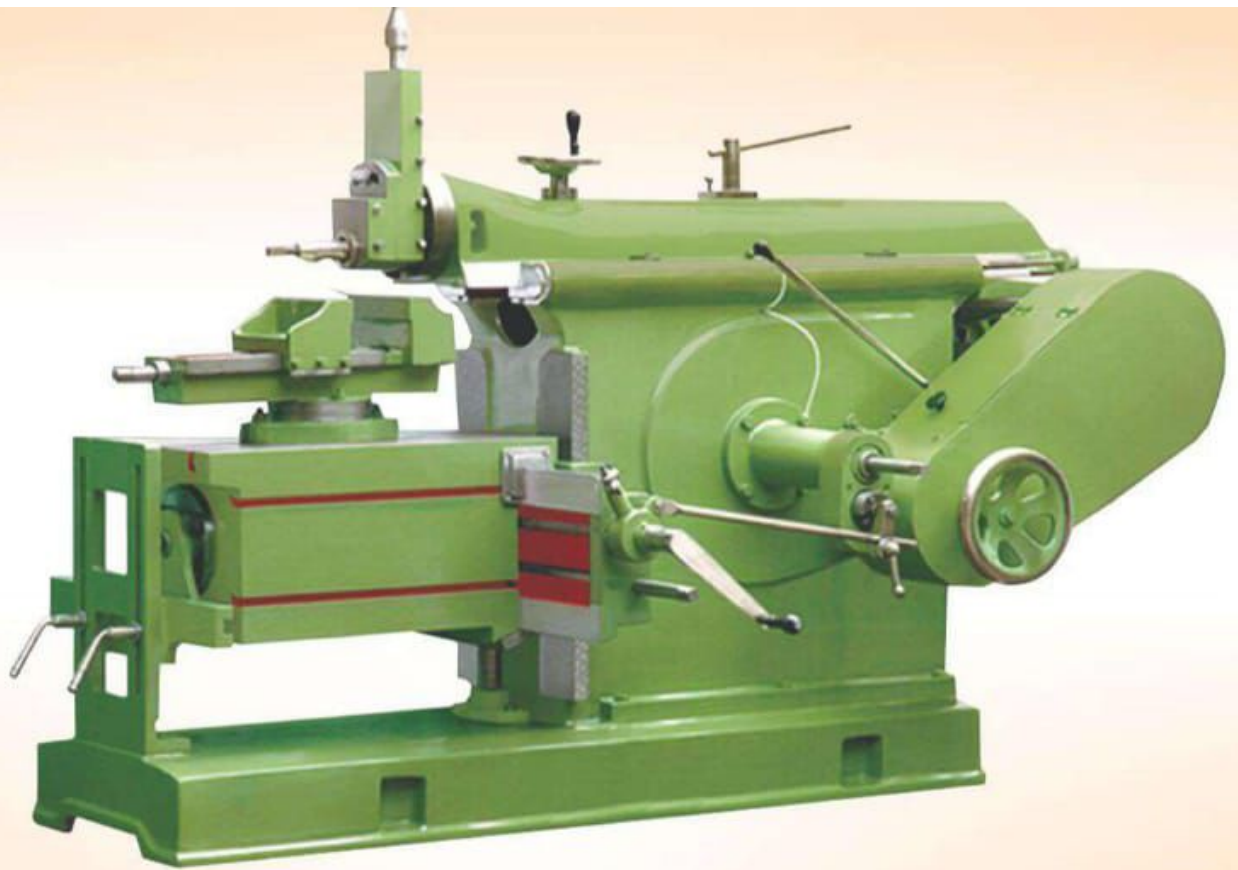
Longitudinal Traverse 2000 TO 12000MM

• STANDARD ACCESSORIES

Electrical

• OPTIONAL ACCESSORIES

Milling Attachment, Rotary Table & D.R.O



SPECIFICATIONS

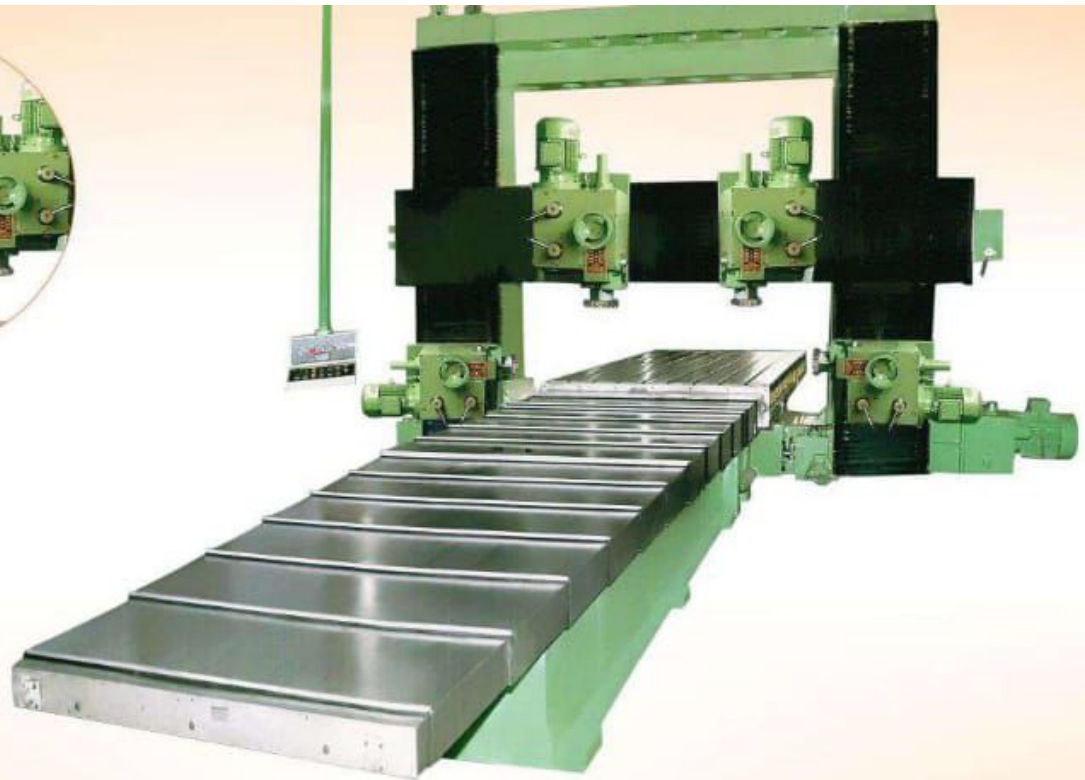
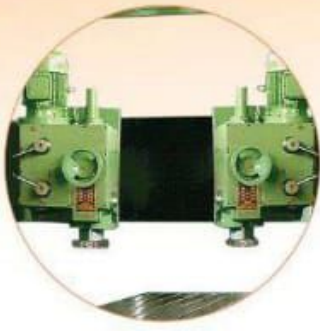
MODEL	SS24	SS30	SS36	SS40
Length of ram stroke	660	800	930	1025
Length of ram	1225	1600	1750	1900
Width of ram	300	300	300	330
Max. Distance from table to ram	450	520	560	600
Min. Distance from table to ram	50	50	60	60
Vertical travel of tool slide	140	160	185	200
Swivelling range of tool on either side	60 degree	60 degree	60 degree	60 degree
Table size	610 * 380	760 * 400	900 * 450	1015*508
Horizontal travel of Table	600	700	810	940
Vertical travel of Table	350	430	500	550
Nos. of speeds	4	4	4	4

Standard Accessories

Vice & Oil Pump

Optional Accessories

Electrical, Stroke Adjustment Wheel, Auto Feed to Tool Post In Up & Down Positions &



SPECIFICATIONS

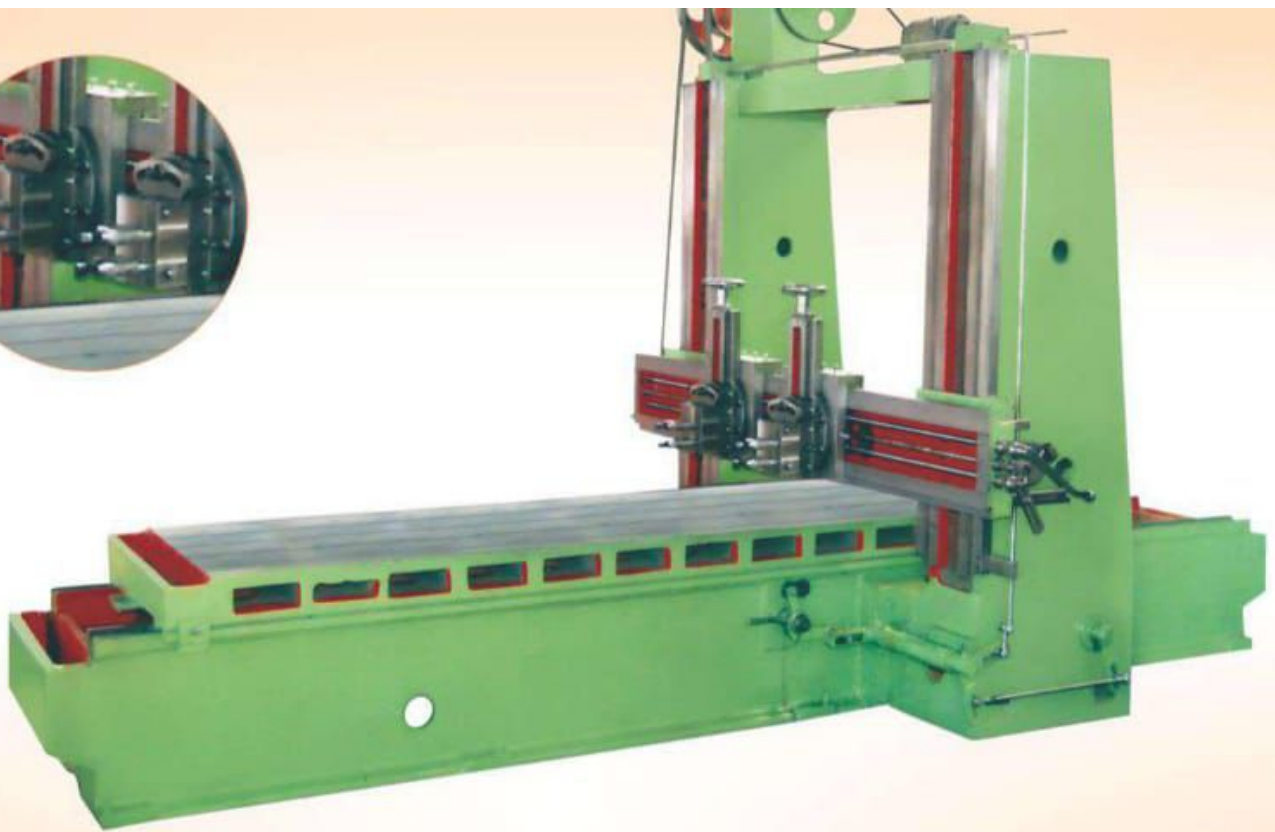
Model No.	SPM-120	SPM-150	SPM-180	SPM-210	SPM-250	SPM-300
Length of Stroke	1800 to 15000 as per Order/Requirement					
Width between Columns	1200	1500	1800	2100	2500	3000
Height under Cross Rail	1200	1500	1500	1800	1800	2100
Face of Cross Rail	450	450	550	600	650	700
Face of Columns	325	325	450	500	500	500
Width of Table	875	1050	1200	1400	1500	1800
No. of Table Feeds	Stepless Infinitely Variable Speeds with AC Variable Frequency Drive					
Table Feed for Milling per Minute	20 to 300					
Table Repaid feed per minute	600					

Standard Accessories

One Milling Head on Cross Rail, Table Feed Drive Gear Box, Cross Feed Drive Gear Box, Lift Feed Drive Gear Box and Control Panel

Optional Accessories

Boring Head, Additional Milling Head on Cross Rail, & Milling Head on Side Column with Lift Feed Drive Gear Box for Side Column Milling Head



SPECIFICATIONS

MODEL		SP4	SP6	SP8	SP10	SP12	SP16	SP20	SP26	SP32	SP42
Length of Bed V'S	ft. mm	7' 2133	9' 2743	12' 3657	15' 4572	18' 5486	25' 7620	31' 9448	40' 12192	55' 16764	70' 21336
Length of bed all over	ft. mm	7-1/2" 2286	10' 3048	13' 3962	16' 4877	19' 5791	26' 7924	32' 9753	41' 12496	56' 17068	71' 21640
Stroke of table	ft. mm	4-1/2" 1371	6' 1828	8' 2428	10' 3048	12' 3657	16' 4876	20' 6096	26' 7924	32' 9753	42' 12800
Length of table all over	ft. mm	5' 1524	6-1/2' 1980	9' 2743	11' 3353	13' 3962	17' 5181	21' 6401	27' 8229	33' 10058	43' 13106
Planing Width	ft. mm	3' 914	4' 1219	5' 1524	5' 1524	6' 1828	6-1/2' 1981	6-1/2' 1981	7' 2133	8-1/2' 2590	8-1/2' 2590
Height under cross rail	ft. mm	3' 914	4' 1219	4-1/2' 1371	5' 1524	5' 1524	5' 1524	5' 1524	6' 1828	7' 2133	7' 2133

Features

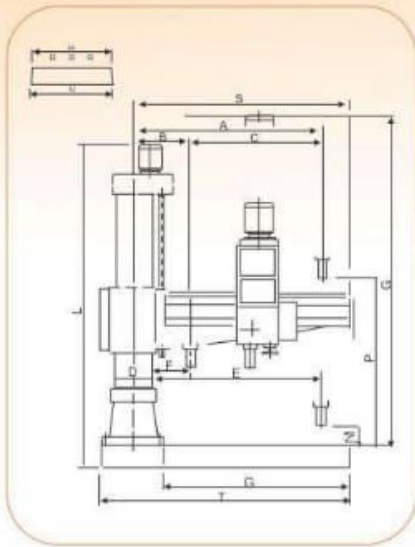
Cutting Speed P.M	ft. mm	40 12000	40 12000	40 12000	40 12000	40 12000	30 9000	30 9000	30 9000	30 9000	30 9000	30 9000
Return Speed P.M	ft. mm	55 16500	55 16500	55 16500	55 16500	55 16500	45 13500	45 13500	45 13500	45 13500	45 13500	45 13500
Method of driving planer		Belt driven										
Method of driving table		Rack & Pinion										

Standard Accessories

Tool Post on Cross Rail

Optional Accessories

Tool Posts on Side Column & Electrical



SPECIFICATIONS

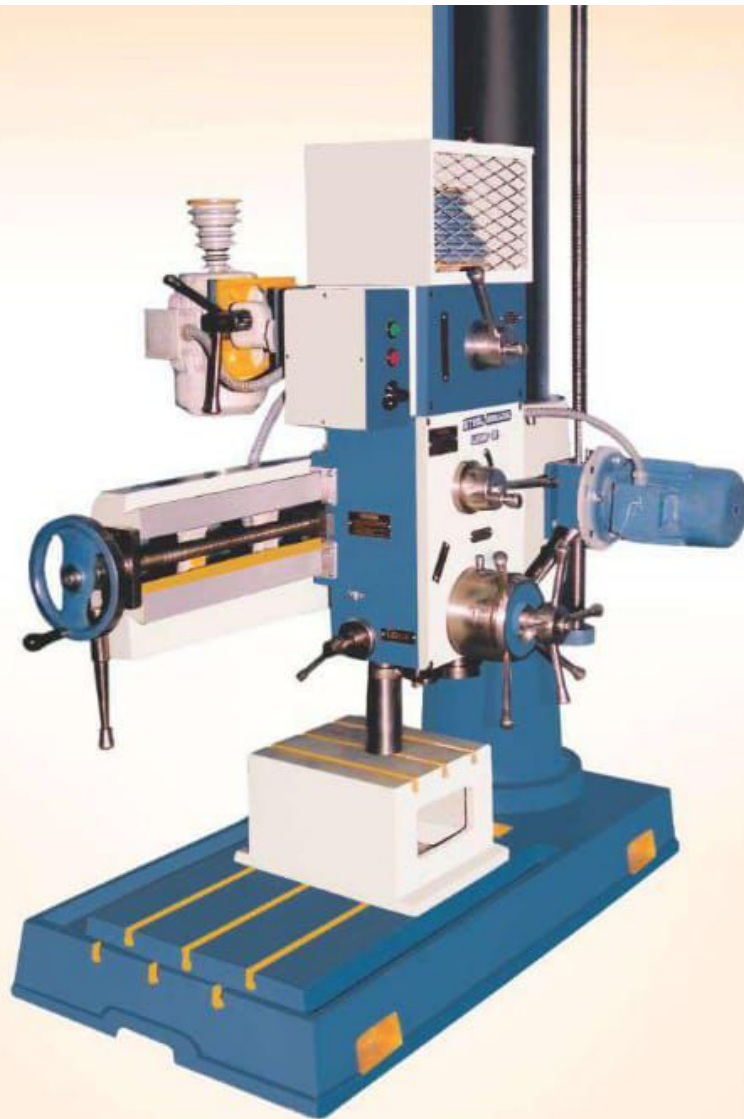
Drill Head	SDM-40B	SDM-40C	SDM-50B	SDM-50C	SDM-65B	SDM-75B	SDM-85B	SDM-100B
Drilling Capacity (In steel/ cast iron)	40/50	40/50	50/60	50/60	65/75	75/85	85/95	100/110
Drilling Depth	180	180	225	250	325	355	400	400
Taper Spindle Nose Socket	MT-4	MT-4	MT-5	MT-5	MT-5	MT-6	MT-6	MT-6
No. of Spindle Speeds/ Range (RPM)	6(55-665)	12(56-1000)	9(45-750)	12(45-1000)	12(18-810)	12(18-810)	12(16-1250)	12(12-1250)
No's of Spindle Feeds/ Range (mm/rev.)	3(0.1-0.2)	3(0.1-0.2)	3(0.1-0.2)	6(0.125-1.25)	6(0.125-1.25)	6(0.125-1.25)	6(.08-1.0)	6(.08-1.0)
Drill Power	1.5 kw	2.2 kw	2.2 kw	3.7 kw	3.7 kw	5.5 kw	7.5 kw	10 kw
CAPACITY								
Drilling Radius Max.	1050	1050	1100	1300	1700	1900	2200	2500
Drilling Radius Min.	375	375	450	450	500	600	650	775
Drilling Head Traverse	675	675	650	850	1200	1300	1550	1725
Distance Base Plate to Spindle Max.	1000	1000	1300	1300	1500	1750	1800	2000
Distance Base Plate to Spindle Min.	225	225	225	325	300	400	550	550
Diameter of Column Sleeve	255	255	310	310	355	405	450	550
Working Surface of Base Plate	900*680	900*680	920*830	1120*830	1500*1020	1850*1160	2130*1300	2450*1300
DIMENSIONS OF BASE PLATE								
Length*Width*Height	1480*700*200	1480*700*200	1585*850*200	1800*850*200	2265*1040*225	2650*1180*225	3150*1300*250	3450*1300*250
Arm Elevator Motor	0.75 kw	0.75 kw	1.5 kw	1.5 kw	2.2 kw	3.7 kw	3.7 kw	7.5 kw
Standard Box Table	400*350*350	550*420*420	550*420*420	550*420*420	600*500*500	600*500*500	1000*750*500	1000*750*500
Approx. Weight of Machine	1700 Kg.	1850 kg.	3000 kg	3500 kg	4800 kg	6500 kg	10,000 kg	13,500 kg

Standard Accessories

Box Table, Coolant Pump, 2 No's of Electric Motors with Limit Switches & Control Panel

Special Accessories

Tilting Table, Boring Attachment, Tapping Attachment & Electro Hydraulic Clamping



SPECIFICATIONS

MODEL	SSGR40	SSGR50	SSGR60
Drilling Capacity	40mm	50mm	60mm
Spindle Nose	Mt-4	Mt-4	Mt-5
Spindle RPM	85-550	60-650	60-650
Drilling Radius Min / Max	300 / 850	325 / 1050	350 / 1200
Vertical Travel of Arm	900mm	1100mm	1250mm
Main / Elevating Motor	2hp & 1hp	3hp & 1hp	5hp & 2hp

Standard Accessories

Box Table & 2 No's of Electric Motors with Control Panel



SPECIFICATIONS

Model	SUM-1B	SUM-2B	SUM-3B	SUM-4B	SUM-5B	SUM-6B	SUM-7B
Table							
Working Surface	1100*270	1300*290	1400*350	1600*360	1800*400	2000*450	2300*500
Swivel	+ - 45 DEGREE	+ - 45 DEGREE	+ - 45 DEGREE	+ - 45 DEGREE	+ - 45 DEGREE	+ - 30 DEGREE	FIX
T-slot Nos/ Size	3/17	3/17	3/17	3/17	5/17	5/20	5/20
T-slot Centre	60	65	80	90	80	90	95
Dist. From Spindle Max/min	350-0	400-0	475-0	550-0	550-50	600-50	600-50
X-longitudinal Travel	500	650	775	900	1100	1250	1300
Y-cross Travel	180	205	255	305	450	500	550
Z-vertical Travel	350	400	475	550	600	650	650
Feeds							
No Of Feeds	9	18	18	18	18	18	18
Range Of Longitudinal Feed/min	13-200	13 TO 305	13 TO 305	13 TO 305	13 TO 305	13 TO 305	13 TO 305
Range Of Cross Feed/min	13-200	13 TO 305	13 TO 305	13 TO 305	13 TO 305	13 TO 305	13 TO 305
Range Of Vertical Feed/min	5-100	2.5 TO 62	2.5 TO 62	2.5 TO 62	2.5 TO 62	2.5 TO 62	4 TO 90
No Of Rapid Feeds	1	2	2	2	2	2	2
Longitudinal Rapid Feed/min	700	735, 1065	735, 1065	735, 1065	735, 1065	735, 1065	500, 735
Cross Rapid Feed/min	700	735, 1065	735, 1065	735, 1065	735, 1065	735, 1065	500, 735
Vertical Rapid Feed/min	240	147, 210	147, 210	147, 210	147, 210	147, 210	165, 250
Spindle							
No Of Spindle Speeds	9	9	18	18	18	18	18
Range Of Spindle Speeds (rpm)	45 to 1100	45 to 1100	35 to 1800	35 to 1800	35 to 1800	35 to 1800	40 TO 2000
Spindle Taper	ISO 40	ISO 40	ISO 40	ISO 40	ISO 40	ISO 50	ISO 50
Arbour Diameter	25.4	25.4	25.4	25.4	25.4	25.4	40
Electrical							
Main Motor	3 H.P	3 H.P	5 H.P	7.5 H.P	7.5 H.P	10 H.P	10 H.P
Feed Motor	2 H.P	2 H.P	2 H.P	2 H.P	3 H.P	3 H.P	3 H.P
Coolant Motor	0.1 H.P	0.1 H.P	0.1 H.P	0.1 H.P	0.1 H.P	0.1 H.P	0.1 H.P
Dimensions (approx.)							
Overall Length	1600	1850	2000	2100	2500	2700	2800
Overall Width	1400	1600	1750	1950	2500	2600	2700
Overall Height	1550	1680	1800	1880	2400	2700	2800
Net Weight Kg.	2000	2600	3300	3700	4200	5000	6500
Gross Weight Kg.	2200	2900	3600	4000	4600	5700	7500

Standard Accessories

Vertical Attachment

Special Accessories

Coolant Pump, Electrical, Dividing Head, Rotary Table, Slotting Attachment, Rack Cutting Attachment & Milling Vice

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Major Specifications of BMU 45 Universal Bed Type Pattern Milling Machine

PARAMETERS

BMU 45



STANDARD EQUIPMENT

- Side support for Saddle
- Draw bar
- Set of service tools
- Operating instruction Manual
- Complete electrical equipment suitable for 415 Volts, 50 hz and 3 phase supply.

EXTRA EQUIPMENT

The versatility of the machine is further increased as a result of the numerous accessories and attachment being made available with the machine as mentioned below :-

- Angular milling head
- Circular milling head
- High speed milling head
- Small radius milling head
- Micro-depth stop for milling head
- Circular dividing attachment for rotary table
- Coolant equipment
- Special cutter, boring tools, tool holder, form cutters, collets and clamping device for wood working

WORKING TABLE

Length x width	mm	2700 x 600
Number / width of T-slots	mm	5/18
Longitudinal traverse	mm	1600
Cross traverse	mm	600
Table height from floor	mm	940
Circular movement of table	deg	30

POWER FEEDS & RAPID TRAVERSE FOR TABLE

Feeds for longitudinal, cross and rotary motions	Infinitely Variable	
Range of power feed for longitudinal, cross and rotary feed	mm/min	16-800
Rapid rate for longitudinal cross and rotary	mm/min	1000

MILLING HEAD & ARM

Spindle nose	*ISO-50	
No. of spindle speeds	9	
Range of spindle speeds	rpm	35 to 1800
Manual vertical adjustment of milling head	mm	320
Swivel of milling head on either side	mm	15
Vertical traverse of arm	mm/min	500

WORKING RANGE

Distance between main spindle to column guide (throat clearance)	mm	915
Distance between main spindle to table surface (day light) min/max	mm	0/900
Maximum diameter of circular milling	mm	2600

POWER RATINGS

Main spindle motor	HP.	5
Arm vertical traverse motor	HP.	2
Table feed and rapid drive ac servo motor torque	HP	3

WEIGHT OF THE MACHINE

Nett	kg. 4500	(Approx.)
Gross	kg. 5100	(Approx.)

*Cutter mounting directly on spindle outside diameter not possible

Specifications and designs are subject to modification and improvement without notice

Major Specifications of BMV 75 Vertical Bed Type Milling Machine

PARAMETERS

BMV 75

WORKING TABLE

Table - length x width	mm	2700 x 600
T-slots		
Number	nos	5
Width	mm	18
Longitudinal Traverse	mm	1600
Cross Traverse	mm	600
Table Height from Floor	mm	830

POWER FEEDS & RAPID TRAVERSE FOR TABLE

No. of power feeds for Longitudinal, Cross and Rotary		Infinitely Variable
Range of Power Feed for Longitudinal, and Cross Traverse	mm / min	16 - 800
Rapid rate for Longitudinal, and Cross Traverse	mm / min	1000

MILLING HEAD & ARM

Spindle Nose		ISO 50
No. of Spindle Speeds		12
Range of Spindle Speeds	rpm	35 - 1800
Power Vertical Adjustment of Milling Head	mm	500
Rate of Vertical Power Traverse	mm / min	500

WORKING RANGE

Distance between Main Spindle and Column Guide (throat clearance)	mm	630
Distance between Main Spindle and Table surface (day light) min./max	mm	20/695

POWER RATINGS

Main Spindle Motor	KW	5.5/1500
Arm Vertical Traverse Motor	KW	1.5/1500
Table Feed and Rapid Drive AC Motor	KW	2.2



Specifications and designs are subject to modification and improvement without notice

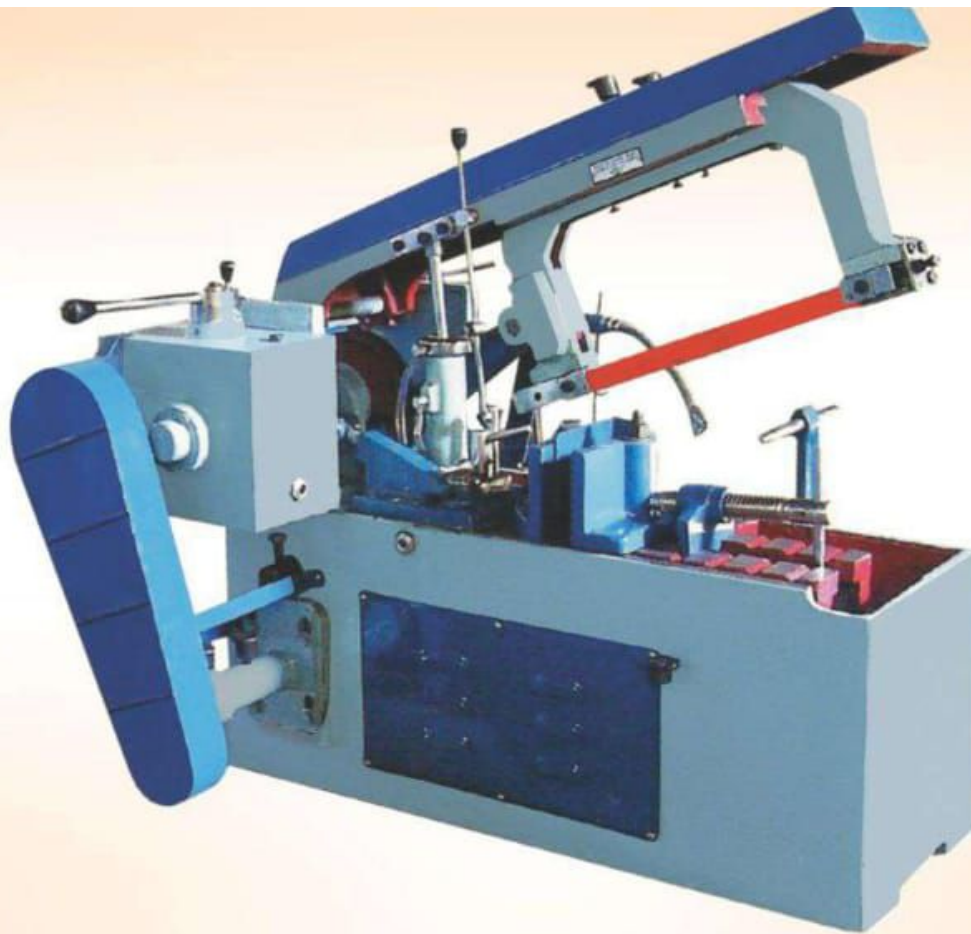


SPECIFICATIONS

MODEL	M-125	M-150	M-200	M-250	M-300	M-375	M-450	M-500
Working Stroke	125	150	200	250	300	375	450	500
Length of Ram	200	580	560	735	810	900	1300	1300
Vertical Adjustment of Ram	90	150	150	250	300	300	325	325
Center of Cutting Tools to Col	165	250	250	380	455	550	750	750
Working Surface of Table	200	280	280	355	500	600	900	900
Longitudinal Transverse of Table	165	250	250	300	530	530	800	800
Bore of Bore	28	38	38	75	75	75	100	100
Cross Transverse of Table	215	250	250	300	455	500	600	600
Table Top to Ram	200	330	330	380	400	525	700	700
No. of Speeds	2	2	2	2	4	4	6	6
Range of Speeds	90-170	60-150	60-150	46-70	20-70	20-70	20-70	20-70
Motor Recommended	1 H.P.	1.5 H.P.	1.5 H.P.	2 H.P.	3 H.P.	3 H.P.	5 H.P.	7.5 H.P.
R.P.M of Motor	1440	1440	1440	1440	960	960	960	960
Approx. Weight (kg.)	350	800	800	1100	1500	2000	4500	4500
Gross Weight (kg.) with Packing	450	950	950	1300	1800	2500	5000	5000

Extra Accessories

True Chuck & Electrical



SPECIFICATIONS

MODEL	M-175	M-200	M-250	M-300	M-350	M-400	M-500	M-600
Cap. of Round Bar	175	200	250	300	350	400	500	600
Cap. of Square Bar	125	150	200	250	275	325	350	425
Stroke	135	135	140	140	140	135	150	150
Strokes per min (approx)	100-120	100-120	85-100	85-100	85-100	70-85	70-85	70-85
Blade Size	12"-14"	14"-16"	16"-18"	18"-20"	20"-22"	18"-24"	24"-32"	30"-36"
Electric Motor	1 h.p.	1 H.P.	2 H.P.	2 H.P.	2 H.P.	3 H.P.	5 H.P.	5 H.P.
Rpm of Motor	1440	1440	1440	1440	1440	1440	960	960
Length	1000	1000	1150	1250	1300	1500	1650	1750
Width	600	600	625	650	650	675	700	725
Height	800	800	1000	1000	1100	1200	1300	1400
Weight (approx)	325 kG.	335 Kg.	450 Kg.	550 Kg.	650 Kg.	750 Kg.	1100 Kg.	1200 Kg.
Weight with Packing	400kG.	450 Kg.	550 Kg.	650 Kg.	775 Kg.	900 Kg.	1300 Kg.	1400 Kg.
V-Belts Required	4 pCS.	4 Pcs.	4 Pcs.	4 Pcs.	4 Pcs.	5 Pcs.	6 Pcs.	6 Pcs.

Standard Accessories

Mechanical Coolant Pump

Extra Accessories

Electrical, Three Speed Gear Box & Bar Stand

Note : All Specifications are subject to change without prior notice

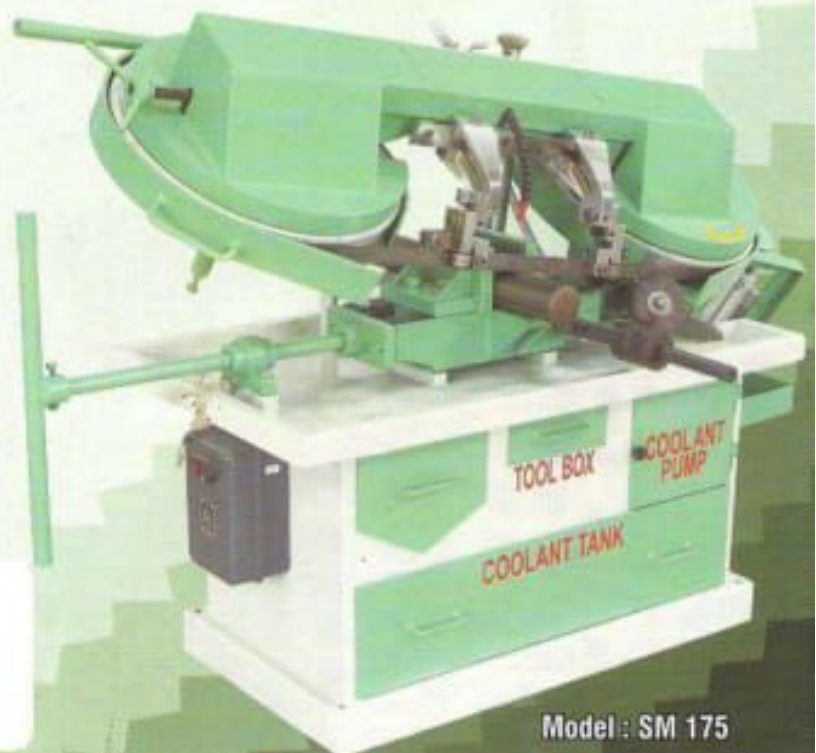
High Speed Horizontal Metal Cutting Bandsaw Machine

- It can Cuts Round Bars, Square, Flats, Pipes, Angles, Channels & Structural Steel.
- It can cut various types of materials like Mild Steel, Alloy Steel, Stainless Steel, Brass, Copper, Aluminium etc.
- There is efficient Clamping Vice.
- It has precise & easy feed control.
- You can get fast & smooth cutting.
- Bi-metal cutting blade has optimum working capacity.

TECHNICAL SPECIFICATIONS

MODEL	SM 175	SM 200	SM 300	SM 350	SM 400
Cutting Capacity					
Round bar mm	175	200	300	350	400
Square mm	150×150	175×175	250×250	200×300	350×350
Blade Size mm	3000×27×0.9	3000×27×0.9	3760×27×0.9	4100×34×1.1	4420×34×1.1
Motor Power Require	1 HP /1440 RPM	1 HP/1440 RPM	2 HP/960 RPM	2 HP/960 RPM	2 HP/960 RPM
Coolant Pump Power Require	0.15 HP/2800 RPM	0.15 HP/2800 RPM	0.15 HP/2800 RPM	0.15 HP/2800 RPM	0.15 HP/2800 RPM
Blade Speed Mtr/Min.	37-52-70	22-37-55-75	22-37-55-75	22-37-55-75	22-37-55-75
Net Weight in kg	310	340	780	850	925
Over all Dimensions L×W×H	1.58×0.58×0.95	2×0.85×1	2.4×0.85×1.2	2.6×0.9×1.2	2.7×0.9×1.2

Note: In view of continuous development, we reserve the right to change the design and dimensions without notice.



Manufactured By:

Model: SM 175

Back

Front

Fully Automatic Double Column High Speed Metal Cutting Bandsaw Machine (DBCA Model)



BENEFITS OF MACHINE:

- Vibration Less Operation for Better Accuracy.
- Replacement of Components Part is Easy.
- Precision Work Can be Done.
- Reliable Technical Features.
- User's Friendly Machine.
- Maintenance Cost is Very Less.
- Machine Life is Very High.

OPTIONAL FEATURES:

- Built-in Cutting Attachment.
- Conveyor Table for Mass Production.
- Provisional for Conversion of Semi-automatic.
- In Automatic Machine Features.

Technical Specification of Horizontal band Saw Machine

Model	210	330	525	650	850	1050	1250	1500	
Cutting Cap. In mm									
Round	210	330	520	650	850	1050	1250	1500	
Square	175 x 175	300 x 300	500 x 500	650 x 650	850 x 850	1050 x 1050	1250 x 1250	1500 x 1500	
Blade Size (in mm)	300 x 37	450 x 34	600 x 41	800 x 47	1000 x 57	1200 x 67	1500 x 87	1800 x 97	
Saw Motor (in mm)	3	9	30	35	35	35	35	35	
Hyd. System	1.1HP	1.5/1.9HP	2.1HP	2.9P	2.1HP	2.1HP	3.0P	3.0P	
Control System	0.75	0.75	0.25	0.25	0.25	0.25	0.25	0.25	
Chip Conveyor Motor HP	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	
Over all Dimensions									
For DBCA Model L									
W	1800	2000	2000	4300	4300	4200	4700	5300	
H	900	1200	1200	1800	1800	2100	2500	3000	
H	1400	1800	1700	2400	2400	2600	3000	3500	
Cutting Speed (m/min)	20 to 100 m/min or stepped. Speed suitable for cutting all types metal ranging of hardness 80HRC to 35C.								
Power Supply	440V ± 10% 50 Hz, 3 Phase, 3C, Supply Control Circuit with 100% Standard Safety								

ACCURACY & CUT RANGE: 0.05mm/0.001mm

Perfect Metal Cutting Solution



MECHANICAL FEATURES:

- Double Columns Ground & Hard Chromatized.
- Auto Height Adjustment of Saw Frame.
- Deep Pulley For Band Saws.
- Carbide Bit For Long Life of Blade.
- Heavy Gear Box For Necessary Heavy Torque Transmission.
- Wire Brush Unit For Blade Cleaning.
- Band Saw Blade Vite.
- Separate Electrical Control Panel with (PLC).
- Imperfect Mechanical Position Indicator for Length Setting.
- In Built Counter in the PLC.

HYDRAULIC FEATURES:

- Variable Feed by Flow Control Valve.
- Automatic Adjustment of Load by Hydraulic Cylinder.
- Heavy Duty Hydraulic Clamping Vise.
- Power Pack for Hydraulic Automation.
- Solenoid Valve for the Different Operation.
- Leakage Free Connection from Power Pack to Cylinder Port.
- Reliability of Hydraulic Cylinder.

COOLING SYSTEM:

- In Built Coolant Tank with Pump.
- In Built Hydraulic Tank.

HYDRAULIC CYLINDRICAL GRINDING MACHINE

SPECIAL FEATURES:

- Slide ways coated with 'TURCITE - B'
- Hydrodynamic bearings for wheel spindle
- Centralized Lubrication System

OPTIONAL:

- Internal Grinding Attachment
- Automatic Plunge & Traverse Grinding Cycle
- Workhead & Wheelhead spindle with Anti Friction bearings

SPECIFICATIONS

Centre Height	150	200 / 250
Max. Gr. Length	300 / 500 / 800	1000 / 1250 / 1500 / 1700
Gr. Wheel Dia	350 / 400	400 / 500
Rapid Approach	50	50
No. of Wkhd. speeds	4	8



CENTRELESS GRINDING MACHINE

SPECIAL FEATURES:

- Centralized Lubrication System
- Hydrodynamic bearings for grinding wheel spindle

OPTIONAL:

- Automatic In-Feed Grinding Cycle

MODEL		HLC-100	HLC-100-S	HLC-150-S
Grinding Range (Dia.)	mm	2 - 100	2 - 100	2 - 125
Grinding Wheel (d x w x b)	mm	350 x 100 x 127	350 x 100 x 127	350 x 150 x 127
Regulating Wheel (d x w x b)	mm	230 x 100 x 76.2	230 x 100 x 76.2	230 x 150 x 76.2
Reg. Wheel Speed (stepless)	rpm	20 - 200	20 - 200	20 - 130
Swivel of Regulating wheel head	deg	± 5 Vertical	± 5 Vertical ± 1.5 Horizontal	± 5 Vertical ± 1.5 Horizontal
Gr. & Reg. Wheel dresser		Hydraulic	Hydraulic	Hydraulic
Gr. Wheel motor power	hp	7.5	7.5	10
Reg. Wheel motor power	hp	1	1	2

INTERNAL GRINDING MACHINE

SPECIFICATIONS

Centre Height	mm	180 / 240
Max. Grinding Diameter (bore)	mm	100 / 200
Table speed infinitely variable	m/min	0.1 - 4
Max. table stroke	mm	250 / 500
Internal Grinding Spindle Dia	mm	60 / 80 / 100
Spindle speed	rpm	18000 / 28000 / 12500
Grinding wheel motor power	hp	3 / 5
Work head speed	rpm	20 - 650 inf. variable
Work head swivel	deg	30
Rapid Approach / Auto Retraction	mm	3 - 10 variable*
Auto spark off time	sec	0 - 60*



SPECIAL FEATURES:

- Shoe Centreless & Magnetic Chucking System
- Slide ways coated with 'TURCITE - B'
- Centralized Lubrication System

* OPTIONAL:

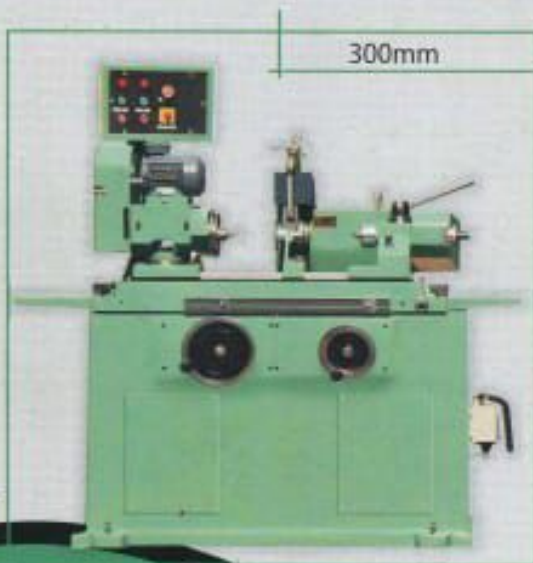
- Diaphragm Chucking System
- Automatic Grinding Cycle

JAS-ANZ

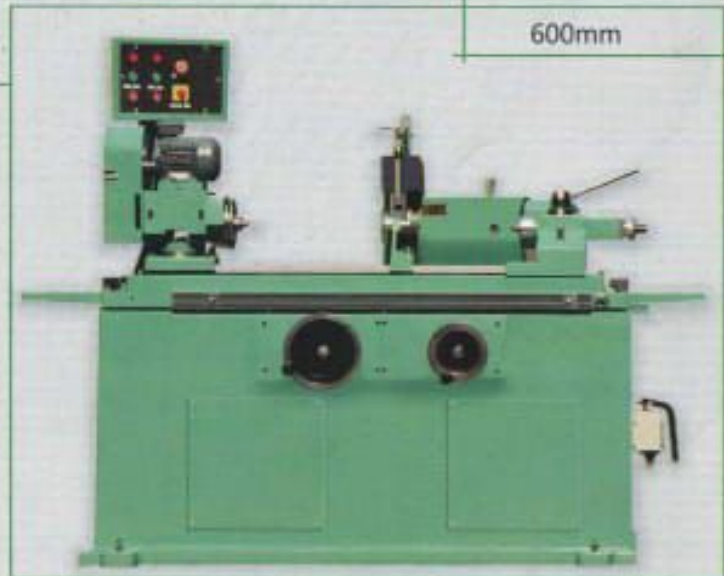


CYLINDRICAL GRINDERS

- » MANUAL
- » HYDRAULIC
- » CNC



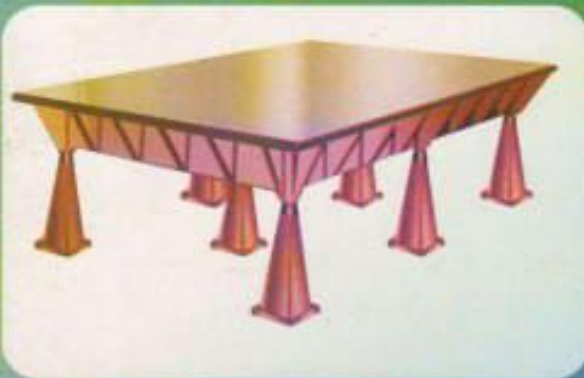
300mm



600mm

Specifications

	300	450	600	1000	1500
Maximum Grinding Length	300mm	450mm	600mm	1000mm	1500mm
Maximum Height of Centers	145mm	145mm	145mm	150mm	150mm
Maximum Swig Over Table	250mm	290mm	290mm	300mm	300mm
Maximum Grinding Diameter	200mm	240mm	240mm	250mm	250mm
Table Feed	Hyd/Mech	Hyd/Mech	Hyd/Mech	Hyd/Mech	Hyd/Mech
Range of Table E Swivel	9+3+12	9+3+12	9+3+12	9+3+12	9+3+12
Work Head Swivel on Either Side	90/30	90/30	90/30	90/30	90/30
Work Spindle Speeds	3	3	3	4	4
Taper in Work Spindle & Tailspindle	MT-3	MT-3	MT-3	MT-4	MT-4
Transverse Movement of Wheel Head Max	125mm	125mm	125mm	130mm	130mm
Size of Grinding Wheel	355x25x127mm	355x38x127mm	400x38x127mm	400x38x127mm	400x38x127mm
Min. Dia of Worn Out Wheel	225mm	225mm	225mm	225mm	225mm
R.P.M. of Grinding Wheel (two range)	1650-2200	1650-2200	1650-2200	1650-2200	1650-2200
Maximum Internal Grinding Depth	80mm	80mm	100mm	100mm	100mm
Min. & Max. Dia of Hole For Grinding	15 to 150mm	15 to 240mm	15 to 240mm	15 to 240mm	15 to 240mm
Wheel Head Motor 1440 R.p.m.	3 H.P	3 H.P	3 H.P	5 H.P	5 H.P
Work Head Motor 960 R.p.m.	0.50 HP	0.50 HP	0.75 HP	0.75 HP	0.75 HP
Motor For Table Drive Hyd./mech.	0.50HP	0.50 HP	1HP	1HP	1HP
Motor For Internal Grinding Attachment	0.75 HP	0.75 HP	0.75 HP	0.75 HP	0.75 HP
Approximate Weight	1200 kg	1400 kg	2000 kg	3000 kg	3500 kg



CAST IRON SURFACE PLATE AND MARKING TABLES (in mm)

We can also manufacture surface plate as per Customer requirement. Used as precision reference base for inspection, marking and layout.

Standard size surface plates are made generally as per IS-2285:2003 in three grades of accuracies and have hand-scraped finish.

Surface Table are made to Grade-1, 2 and 3 flatness accuracies of DIN-876 and have hand-scraped/ground finish.

M.S. Fabricated stand or C.I. Column type floor stands supplied at extra cost.

Grid lines, Tapped holes and T-slots can be provided at extra cost.

2000 x 1250	2500 x 1750	3000 x 3000
2000 x 1500	2500 x 2000	3500 x 2500
2000 x 2000	2500 x 2500	4000 x 2000
2400 x 1200	3000 x 1000	4000 x 3000
2500 x 1000	3000 x 1250	5000 x 2000
2500 x 1250	3000 x 1500	5000 x 3000
2500 x 1500	3000 x 1600	6000 x 2000
2500 x 1600	3000 x 2000	6000 x 3000