

PRODUCT CATALOG (Ver.20)

ACCURATE MACHINE TOOLS®



ACCURATE MACHINE TOOLS®

We are engaged in manufacturing of Precision Heavy Duty Lathe Machines. Right since our inception, technological upgradation has played a major role in success of Accurate Lathe Machines. As a result of experience and research of long span, Accurate Lathe Machine has been ahead of competitors in precision, endurance and technological advancement.

From an industrial tradition going back almost 35 years, we are proud of the heritage and the many milestones en route to present time. **Mr. Deval Ghorecha** started his career by joining **ACCURATE MACHINE TOOLS** in 1995 founded by his father **Mr. Prafull Ghorecha** in 1982.

Through business innovations, we have always tried and succeeded in new ventures besides upgrading the current line of production. During all these years we are fully instrumental in developing various kinds of Turning Machines & Special Purpose Machines (SPMs). Below are the machines we have developed during the course of time.

OUR RANGE OF PRODUCTS

Lathe Machines

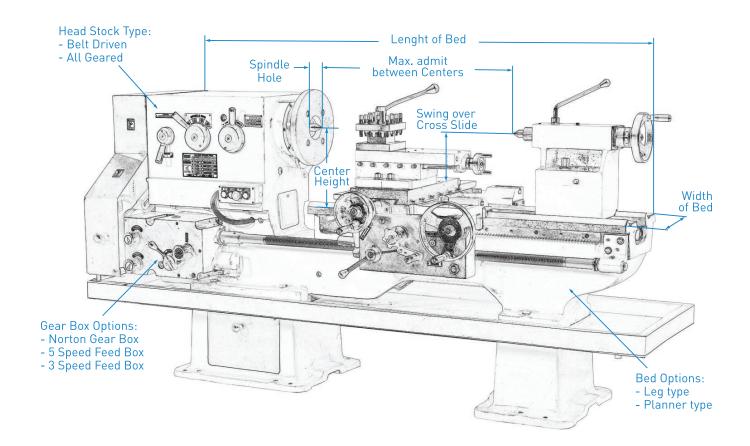
- Medium Duty Lathe Machines
- Heavy Duty Lathe Machines
- Extra Heavy Duty Lathe Machines
- All Geared Lathe Machines

Special Purpose Machines

- Specialized CNC Turning Machines
- Deep Hole Drilling Machines
- Automatic Turning & Grinding Machines
- Automatic Face Broaching Machines
- Rotogravure Roll Turning & Grinding Machine
- Specialized Machines for Pumps & Valves Industry
- Large Roll Grinding Machines for Crusher

We are member of Rajkot Engineering Association (REA) and Machine Tools Manufacturing Association (MTMA).

Machine Selection Guide



MACHINE TOOLS ACCESSORIES

NORTON GEAR BOX
TAPER TURNING ATTACHMENT
TAPER TURNING WITH THREADING ATTACHMENT
COOLANT SYSTEM
REAR TOOL POST
MACHINE LAMP
REAR SPLASH GUARD
QUICK CHANGE TOOL POST
TURCITE-B COATING FOR GUIDEWAYS
ELECTRIC SYSTEM
CHUCKS
GRINDING ATTACHMENT
KEY WAY ATTACHMENT
REVOLVING CENTER
SPEACIAL ATTACHMENTS AS REQUIRED

Note:

- As improvements are made in our machines, the above Specifications, Dimensions, Weights and details are subject to change without prior notice and not binding on us.
- The accessories shown in the photographs may not be part of standard accessories.

Medium Duty Lathe Machines



Brief Technical Specifications

Bed Length	4'6" (1370), 5'3" (1600) & 6' (1825)
Admit between Centers	1'9" (530) , 2'6" (760) & 3'3" (985)
Bed Width	11" (280)
Centre Height	9" (228)
Spindle Hole	2" (50)

Standard Features & Accessories:

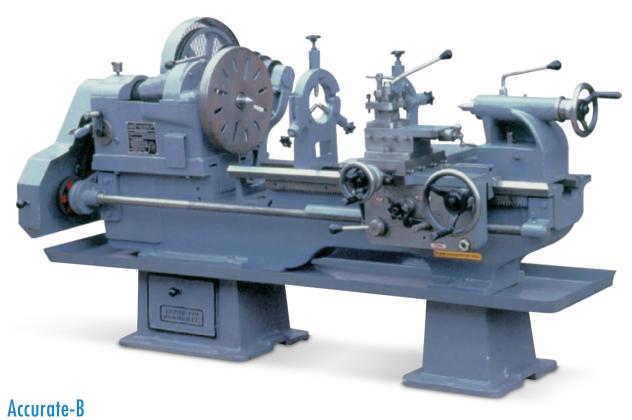
Hardened & Ground Bedways, Chuck Plate - 1 No., Centre Adaptor, Dead Centre - 2 Nos., Tool Post Spanner, Change Gear Set for Whitworth and Metric Threads, Motor Pulley and Instructions & Spare Parts Manual.

Extra Accessories:

Steady Rest, Follow Rest, Dog Chuck Plate, Face Plate, Norton Gear Box, Taper Turning Attachment, Electric Motor, Coolant System, Rear Tool Post, Machine Lamp, Rear Splash Guard, Quick Change Tool Post with Tool Holders, Turcite-B coated Carriage Guideways for Bed, DP / Module Gears, Metric Pitch Screws, Chuck and Special Attachments as per Customers' requirements.

Model	MH-1	MH-2	MH-3						
Length of Bed	4'6" (1370)	5'3" (1600)	6' (1825)						
Max. admit between Centers	1'9" (530)	2'6" (760)	3'3" (985)						
Spindle Hole	2" (50)	2" (50)							
Bed Type	2V & 2 Flat								
Height of Centre	9" (228)								
Max. swing over Bed Dia.	17" (430)								
Max. swing over Cross Slide Dia.	11" (280)								
Max. swing without Gap Dia.	25" (630)								
Width of Bed	11" (280)								
Nos. of Spindle Speed & Range	8 / 35 to 550 RPM								
Tail Stock Spindle Dia.	2" (51)								
Taper of Centers	MT-4								
Tail Stock Spindle Travel	6" (150)								
Cross Slide Travel	9" (225)								
Compound Slide Travel	4-1/2" (115)								
Tool Post Size (Square)	4" x 4"								
Tool Shank Section	25 x 25								
Lead Screw Dia. & Pitch	1-1/4" (32), 4TPI								
Width of Gap in front of Face Plate	6" (150)								
Nos. of Inch Threads & Range	19 / 2 to 24 TPI Optional:	Norton Gear Box – 36 / 4 to	60 TPI						
Nos. of Metric. Threads & Range	13 / 1 to 6 MMP Optional	: Norton Gear Box – 20 / 0.5	to 7.5 MMP						
Nos. of DP Threads & Range	Optional: 11 / 6 to 60								
Nos. of Module Threads & Range	Optional: 12 / 0.3 to 2								
Nos. of Longitudinal Feeds	32 / 0.16 to 2 mm/rev Optional: Norton Gear Box 56 / 0.07 to 1.2 mm/rev								
Nos. of Transverse Feeds	32 / 0.038 to 0.48 mm/rev	Optional: Norton Gear Box 5	6 / 0.016 to 0.28 mm/rev						
Power of AC Motor (HP)	1.5	1.5	2						
Weight (Approx. in kgs)	570	660	750						

Heavy Duty Lathe Machines



Brief Technical Specifications

Bed Length	5'6" to 24'
Admit between Centers	1'9" (530) to 20'3" (6175)
Bed Width	12 3/4" (323) & 14 3/4" (374)
Centre Height	10" (254), 12" (305) &15" (381)
Spindle Hole	2-1/8" (54) to 6-1/8" (156)

Standard Features & Accessories:

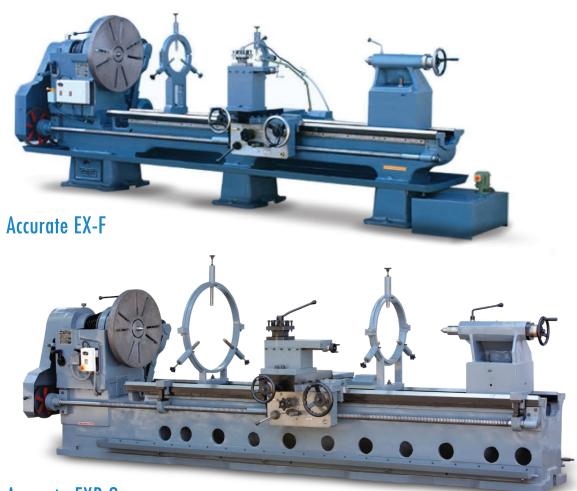
Hardened & Ground Bedways, Chuck Plate - 1 No., Centre Adaptor, Dead Centre - 2 Nos., Tool Post Spanner, Change Gear Set for Whitworth and Metric Threads, Motor Pulley, Endless Flat Belt / V-Belt and Instructions & Spare Parts Manual.

Extra Accessories:

Steady Rest, Follow Rest, Face Plate, Norton Gear Box, Taper Turning Attachment, Electric Motor, Coolant System, Rear Tool Post, Machine Lamp, Rear Splash Guard, Quick Change Tool Post with Tool Holders, Turcite-B coated Carriage Guideways for Bed, DP / Module Gears, Metric Pitch Screws, Chuck and Special Attachments as per Customers' requirements.

Model					А	ccurate				Accurate										
Model		Α	В	С	D	Е	F	G	Н	I	J	K								
Length of Bed	Length of Bed		7' (2130)	9' (2740)	10' (3040)	12' (3650)	14' (4260)	16' (4870)	18' (5480)	20' (6090)	22' (6700)	24' (7300)								
Max. admit betwee	en Centers	1 ' 9" (535)	3'3" (1000)	5 ' 3" (1600)	6 ' 3" (1900)	8'3" (2515)	10 ' 3" (3125)	12 ' 3" (3735)	14 ' 3" (4345)	16 ' 3" (4955)	18 ' 3" (5560)	20 ' 3" (6170)								
Spindle Hole		Standard: 52 (2-1/8") Optional: 3-1/8" (78), 4-1/8" (104), 6-1/8" (156) & 6-1/8" (156)																		
Bed Type		2V & 2	Flat																	
Centre Height		10" (25	54)			12" (30	5)		15	5" (381)										
Max. Swing over B	ed Dia.	19-1/2	" (495)			23" (58	5)		29	7" (735)										
Max. swing over	12-3/4" BW	11-1/2	" (295)			15-1/2"	(395)		N.	А										
Cross Slide Dia.	14-3/4" BW	11" (28	30)			15" (38	0)		21	I-1/4" (5	40)									
Max. swing withou	ıt Gap Dia.	28-1/4	" (720)			32-1/4"	(820)		41	I" (1040)										
Width of Bed		12-3/4	" (323)			14-3/4"	(374)													
Nos. of Spindle Sp	ndle Speed & Range 8 (25 to 460 RPM)				'															
Tail Stock Spindle	Dia.	2-1/8" (54)																		
Taper of Centers		MT-4																		
Tail Stock Spindle	Travel	7 1/2" (190)																		
Cross Slide	10" CH	11" (28	30)			13" (330)														
Travel	12" CH	12-1/4	" (310)			13" (330)														
Compound Slide T	ravel	6" (150 mm) 8" (20					8" (200)													
Tool Post Size (Sq	uare)	5" x 5"				5-3/4" x 5-3/4"														
Tool Shank Sectio	n	25 x 25 32 x 32																		
Lead Screw Dia. &	Pitch	Standa	ard: 1-1,	/2" (38)	/ 4TPI	Optiona	l: 1-3/4"	(45)												
Width of Gap in fro	ont of Face Plate	8" (200	0)			9" (225)														
Nos. of Inch Threa	ds & Range	19 / 2 to 24 TPI Optional: Norton Gear Box – 44 / 2 to 60 TPI																		
Nos of Metric. Thr	13 / 1 to 6 MMP Optional: Norton Gear Box – 24 / 0.5 to 15 MMP																			
Nos. of DP Thread	Option	al: 11 (<i>6</i>	to 60)																	
Nos. of Module Th	Optional: 12 (0.3 to 2)																			
Nos. of Longitudin	al Feeds	32 / 0.	16 to 2 r	mm/rev	Option	al: Norto	on Gear	Box - 68	3 / 0.068	3 to 2.4 n	nm/rev									
Nos. of Transverse	e Feeds	32 / 0.	038 to 0	.48 mm/	/rev Op	tional: N	Norton G	ear Box	c - 68 / 0	.016 to ().57 mm	/rev								
Power of AC Motor	r (HP)	2	3	3	3	3	5	5	7.5	7.5	7.5	10								
Weight (Approx. in	kgs)	1300	1400	1600	1800	2000	2200	2400	2800	3300	3600	4000								

Extra Heavy Duty Lathe Machines



Accurate-EXP-G

Brief Technical Specifications

Bed Length	7' to 24'
Admit between Centers	2'7" (800) to 19'6" (5950)
Bed Width	18" (457), 20" (508) & 24" (610)
Centre Height	15" (381), 18" (457), 20" (508), 22" (558) & 24" (610)
Spindle Hole	2-1/8" (54) to 6-1/8" (156)

Standard Features & Accessories:

Hardened & Ground Bedways, Chuck Plate - 1 No., Centre Adaptor, Dead Centre - 2 Nos., Tool Post Spanner, Change Gear Set for Whitworth and Metric Threads, Motor Pulley, Endless Flat Belt / V-Belt and Instructions & Spare Parts Manual.

Extra Accessories:

Steady Rest, Follow Rest, Face Plate, Planner type Bed, Norton Gear Box, Taper Turning Attachment, Electric Motor, Coolant System, Rear Tool Post, Machine Lamp, Rear Splash Guard, Quick Change Tool Post with Tool Holders, Turcite-B coated Carriage Guideways for Bed, DP / Module Gears, Metric Pitch Screws, Chuck and Special Attachments as per Customers' requirements.

Model		ЕХН-В	EXH-C	EXH-D	EXH-E	EXH-F	EXH-G	ЕХН-Н	EXH-I	EXH-J	EXH-K	
Length of Bed		7' (2130)	9' (2740)	10' (3040)	12' (3650)	14' (4260)	16' (4870)	18' (5480)	20' (6090)	22' (6700)	24' (7300)	
Max. admit	18"/20" Bed Width	2 ' 8" (810)	4 ' 8" (1420)	5'8" (1725)	7'8" (2335)	9 ' 8" (2945)	11 ' 8" (3555)	13 ' 8" (4165)	15 ' 8" (4775)	17'8" (5385)	19 ' 8" (5995)	
between Centers	24" Bed Width	1'9" (535)	3'9" (1145)	4'9" (1450)	6 ' 9" (2060)	8 ' 9" (2670)	10 ' 9" (3280)	12 ' 9" (3890)	14 ' 9" (4500)	16'9" (5100)	18 ' 9" (5700)	
Spindle Hole		Standard: 3-1/8" Optinal: 4-1/8" (104), 5-1/8" (130), 6-1/8" (156) & 8-1/8" (206)										
Bed Type		2V & 2	Flat									
Height of Centre		15" (38	1)	18" (45	57)	20" (50	08)	22" (5	58)	24" (6	10)	
Max. swing over Be	d Dia.	29-1/4	' (745)	35" (89	90)	39" (9	90)	43" (10	090)	47"(11	90)	
Max. swing over	18"/20" Bed Width	18-1/2'	' (455)	24" (6	10)	28" (7	15)	NA		NA		
Cross Slide Dia.	24" Bed Width	NA		24" (6	10)	28" (7	10)	32" (8	10)	36" (9	15)	
Max. swing without	Gap Dia.	43" (10	90)	49" (12	250)	53" (13	350)	57" (14	450)	61" (1550)		
Width of Bed		18" (45	7)					20" (508) 24" (610)			10)	
Nos. of Spindle Spe	ed & Range	8 (25 to	25 to 350 RPM)									
Tail Stock Spindle [Dia.	3" (76)	3" [76]									
Taper of Centers		MT-5	MT-5									
Tail Stock Spindle 1	Travel	10" (25	250) 13" (330)									
Cross Slide Travel		18-1/2'	' (470)		20-1/2" (520) 22" (560)							
Compound Slide Tr	avel	8" (200)		10'	(250)						
Tool Post Size (Squ	are)	6" x 6"			7"	x 7"						
Tool Shank Section		38 x 38										
Lead Screw Dia. &	Pitch	2" (50) / 2 TPI										
Width of Gap in from	nt of Face Plate	9" (225	9" (225)									
No. of Inch Threads	& Range	20 / 1 to 20 TPI Optional: Norton Gear Box – 44 / 2 to 60 TPI										
No. of Metric. Threa	ads & Range	13 / 1 t	13 / 1 to 6 MMP Optional: Norton Gear Box – 24 / 0.5 to 15 MMP									
No. of DP Threads	Optiona	Optional: 11 (6 to 60)										
No. of Module Thre	ads & Range	Optiona	al: 12 (0.3	3 to 2)								
No. of Longitudinal	33 / 0.0	108 – 2 m	m/rev 0	Optional:	Norton (Gear Box	- 68 / 0.	034 – 1.2	mm/rev			
No. of Transverse Feeds 33 / 0.02 – 0.48 mm					Optiona	al: Nortor	n Gear Bo	ox – 68 /	0.008 – 0	.28 mm/	rev	
Power of AC Motor	(HP)	5	5	5	7.5	7.5	7.5	7.5	7.5	10	10	
Weight (Approx. in	kgs)	1600	1700	2100	2500	2900	3400	3800	4200	4600	5000	

Heavy Duty All Geared Lathe Machines





Brief Technical Specifications

Bed Length	5'6" to 24'
Admit between Centers	1'9" (530) to 20'3" (6175)
Bed Width	12-3/4" (323), 14-3/4" (374) & 18" (457)
Centre Height	10" (254), 12" (305), 15" (381) & 18" (457)
Spindle Hole	2-1/8" (54) & 3-1/8" (80)

Standard Features & Accessories:

Hardened & Ground Bedways, Hardened & Profile Ground Headstock Gears, Chuck Plate - 1 No., Norton Gear Box, Centre Adaptor, Dead Centre - 2 Nos., Tool Post Spanner, Oil Can, 3 HP (Class-F) Electric Motor with Push Button type operating panel and Instructions & Spare Parts Manual.

Extra Accessories:

Steady Rest, Follow Rest, Face Plate, Taper Turning Attachment, Coolant System, Rear Tool Post with Long Cross Slide, Machine Lamp, Rear Splash Guard, Quick Change Tool Post with Tool Holders, Turcite-B coated Carriage Guideways for Bed, A2-6 Spindle Nose, DP / Module Gears, Metric Pitch Screws, Chuck and Special Attachments as per Customers' requirements.

						A	ACCEN	Т					
Model		101	102	103	104	105	106	107	108	109	110	111	
Length of Bed	5'6" (1670)	7' (2130)	9' (2740)	10' (3040)	12' (3650)	14' (4260)	16' (4870)	18' (5480)	20' (6090)	22' (6700)	24' (7300)		
Max. admit	12-3/4" / 14-3/4" Bed Width	1'9" (535)	3 ' 3" (1000)	5 ' 3" (1600)	6 ' 3" (1900)	8 ' 3" (2515)	10 ' 3" (3125)	12 ' 3" (3735)	14 ' 3" (4345)	16 ' 3" (4955)	18 ' 3" (5560)	20 ' 3" (6170)	
between Centers	18" Bed Width	NA	2'8" (810)	4'8" (1420)	5'8" (1725)	7'8" (2335)	9 ' 8" (2945)	11'8" (3555)	13'8" (4165)	15'8" (4775)	17 ' 8" (5385)	19 ' 8" (5995)	
Spindle Hole		2-1/8"	(54)	ı			3-1/8	" (80)		ı			
Spindle Nose		Threa	ded Op	tional:	A2-6		A2-8	(Double	Bearing	ıs at Fro	nt End)		
Nos. of Spindl	e Speed & Range	8/30	to 1235	RPM			8 / 30	to 840 F	RPM				
Bed Type		2V & 2	? Flat										
Height of Cent	re	10" (25	54)		12" (30	5)		15" (381)		18"	(457)		
Max. swing ov	er Bed Dia.	19-1/2	(495)		23" (58	5)	:	29" (735)		35"	(890)		
	12-3/4" BW	11-1/2	(295)		15-1/2'	(395)		NA		NA			
Max. swing ov Cross Slide Di	1/ 2//" D\\	11" (28	30)		15" (38	0)		21-1/4" (540)	NA			
	18" BW	NA			NA			18" (455)		24" (610)			
Max. swing wi	thout Gap Dia.	28" (720) 3			32" (82	820) 41" (1040)))	49" (1250)			
Width of Bed		12-3/4" (323)				14-3/4" (374)			18'	18" (457)			
Tail Stock Spir	ndle Dia.	2-1/8"	(54)			2-1/8" (54) 3" ((76)			
Taper of Cente	ers	MT-4				MT-4				MT-5			
Tail Stock Spir	ndle Travel	8" (200	0)			8" (200)				10" (250)			
Cross Slide Tr	avel	11" (28	30)		13" (330) 18-			3-1/2" (470)					
Compound Sli	de Travel	6" (150	mm)			8" (200) 8"				(200)			
Tool Post Size	(Square)	5" x 5"			5-3/4" x 5-3/4"			6"	6" x 6"				
Tool Shank Se	ction	25 x 25	5			32 x 32			38	38 x 38			
Lead Screw Di	a. & Pitch	1-1/2"	, 4TPI	1-1/2", 4TPI				2", 2 TPI					
Width of Gap i	n front of Face Plate	8" (200	0)			9" (225) 9" (225)							
No. of Inch Th	reads & Range	44 / 2	to 60 TP	1									
No. of Metric.	24 / 0.	5 to 15 N	ИМР										
No. of DP Thre	eads & Range	Optional: 11 (6 to 60)											
No. of Module	Option	Optional: 12 (0.3 to 2)											
No. of Longitu	dinal Feeds	68 / 0.	068 to 2	.4 mm/	rev				68/0	0.034 – 1	.2 mm/r	ev	
No. of Transve	rse Feeds	68 / 0.	68 / 0.016 to 0.57 mm/rev				68 / 0.008 – 0.28 mm/			/rev			
Power of AC M	lotor (HP)	3	3	3	3	3	5	5	7.5	7.5	7.5	10	
Weight (Appro	x. in kgs)	1400	1500	1600	1800	2000	2200	2400	2600	2900	3200	3500	

High Speed All Geared Lathe Machines



Brief Technical Specifications

Bed Length	1890
Admit between Centers	1000
Bed Width	302
Centre Height	250
Spindle Hole	55

Standard Features & Accessories:

Hardened & Ground Bedways, Hardened & Profile Ground Headstock Gears, A2-6 Spindle Nose, Universal Feed Box Electric Motor with Panel Box, Starting Shaft, Electromagnetic Brake with Foot Pedal, Turcite-B coated Carriage Guideways for Bed, Chuck Plate - 1 No., Centre Adapter, Dead Centre - 2 Nos., Thread Dial Indicator, & Tool Post Spanner, Set of Spanners & LN Keys and Instructions & Spare Parts Manual.

Extra Accessories:

Steady Rest, Follow Rest, Face Plate, Taper Turning Attachment, Coolant System, Quick Change Tool Post, Rear Tool Post, Machine Lamp, Rear Splash Guard, Single Dead Stop for Carriage, 5-Position Indexing Carriage Stop, DP / Module Gears, Chucks and Special Attachments as per Customers' requirements.

Model	et-1.0
Length of Bed	1890 (6 ' 3")
Max. admit between Centers	1000
Width of Bed	302
Spindle Hole	55
Spindle Nose	A2-6
Nos. of Spindle Speed & Range	8 / 70 to 1600 RPM
Bed Type	2V & 2 Flat
Height of Centre	250
Max. swing over Bed Dia.	500
Max. swing over Cross Slide Dia.	350
Tail Stock Spindle Dia.	54
Taper of Centers	MT-3
Tail Stock Spindle Travel	140
Cross Slide Travel	200
Compound Slide Travel	110
Tool Post Size (Square)	100 x 100
Tool Shank Section	25 x 25
Lead Screw Dia. & Pitch	32, 6 MMP
Nos. of Metric. Threads & Range	24 / 0.5 - 7 MMP
Nos. of Inch Threads & Range	24 / 56 - 4 TPI
Nos. of Module Threads & Range	Optional: 18 / 0.25 – 1.75
Nos. of DP Threads & Range	Optional: 18 / 16 - 112
Nos. of Longitudinal Feeds	24 / 0.045 - 0.63 mm
Nos. of Transverse Feeds	24 / 0.015 - 0.21 mm
Power of AC Motor (HP)	Standard: 3 HP Optional: 5 HP
Weight (Approx. in kgs)	1300

Salient Features

Headstock

All Gears and Spindle are Hardened & Ground made from special alloy steel.
Positive Vee alignment on Bed.
Electromagnetic Brake with Foot Pedal to stop the main Spindle.

Bed

Rigid construction with heavy cross ribs mounted on heavier leg base. Hardened & Ground wider guideways.

Carriage

Carriage coated with Turcite-B lining for guideways of Bed. Long Cross Slide with T-Slots at rear end. Cross Slide Screw with Backlash eliminator.

Apron

Drop worm type arrangement for easy feed engagement and disengagement. Convenient located levers & wheels for easy operations. Interlocking mechanism against simultaneous engagement of longitudinal feed, cross feed and threading.

Tailstock

Rigid heavier construction with Hardened & Ground Spindle. Dual locking arrangement for firm locking with Bed.

Feed Box

Universal Feed Box to serve wide range of Feeds and Threads:

Standard: Metric & Inch Optional: DP & Module

Special Purpose Machines







Cam Profile Grinding Machine



Automatic Turning Machines







Customized CNC Turning Machines



Automatic Face Broaching Machine



Automatic Spiral Grooving Machine



Copy Turning Machine

Our Machines on Shop Floor













Material used of following Makes

BEARINGS: SKF, TIMKEN, NACHI, FAG, ZKL, RHP-NSK

HARDENED & GROUND HEADSTOCK GEARS: SHANTHI GEARS LTD.

SLIDEWAY COATING: ROLLON TURCITE-B

ELECTRIC MOTORS: NEW INDIA, ABB, SIEMENS

SWITCHGEARS & ELECTRICALS: SCHINDER, SIEMENS, HPL, JAI BALAJI

WIRES & CABLES: FINOLEX, ULTRACAB, RR

CNC & PLC: DELTA, SIEMENS, FANUC, MISTUBISHI

BALLSCREW & LINEAR MOTION GUIDEWAYS: HIWIN, PMI, THK

PRECISION LOCK NUT: YINSH, NIKKI ENCODER: KUBLER, PEPPERL+FUCHS

COUPLINGS: KTR, RINGFEEDER, MIKIPULLEY

HYDRAULICS: NACHI, POLYHYDRON, HYDROLINE, WIKA, ORION, HYDROTECHNIK

PNEUMATICS: FESTO, JANATICS, SMC

Note: Use of above makes is subject of availability. Equivalent make can be used without prior notice.

Few of our customers during our progressive journey...



















































































































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