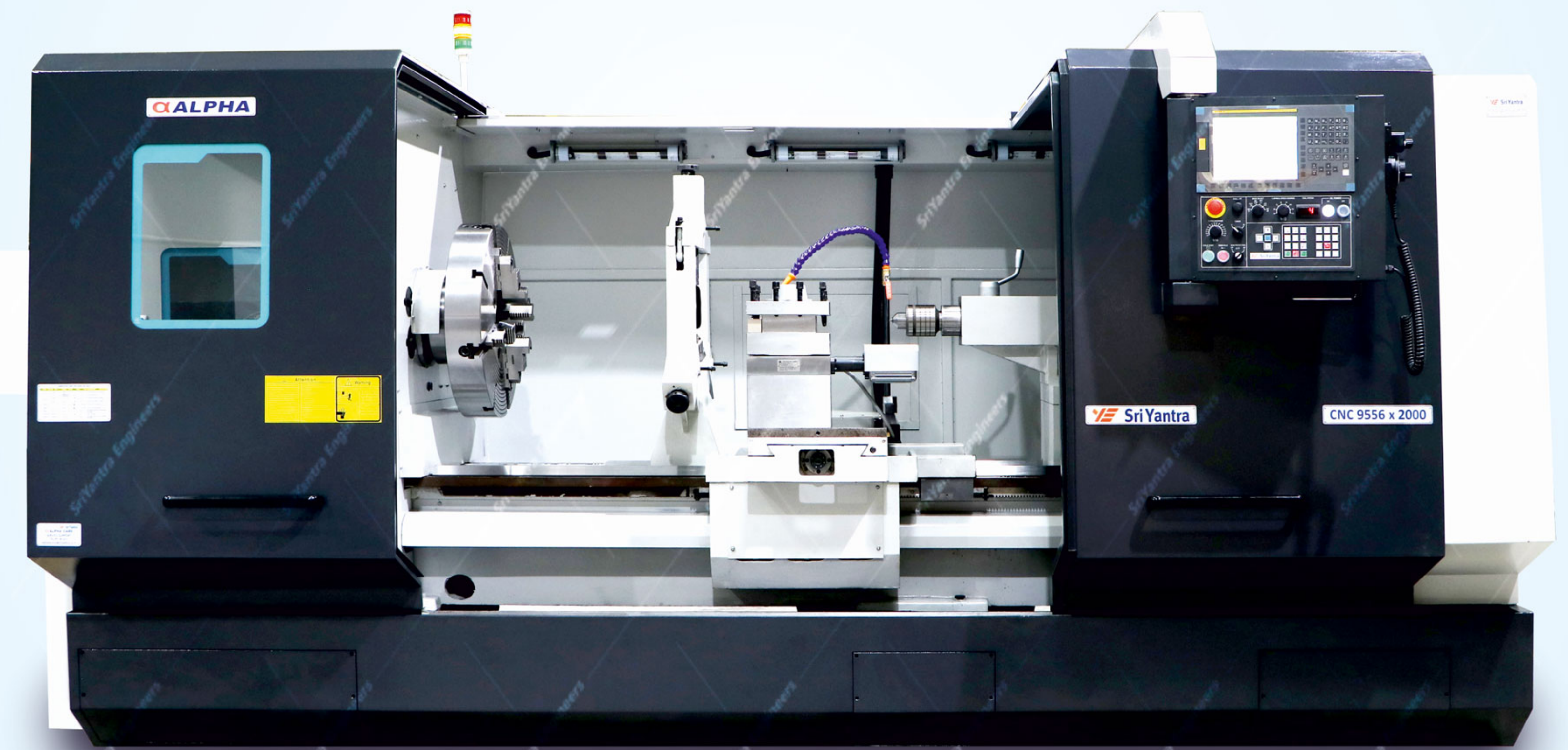


ALPHA

HEAVY DUTY CNC LATHES



V211129

Machines built by



SriYantra Engineers Private Limited

H.O : #362/A, 10th Cross, 4th Phase, Industrial Area, Peenya,
Bengaluru - 560 058. India
Ph: +91-80 41637133, Email: info@sriyantra.co.in
www.sriyantra.co.in

Works : #559, 14th Cross, 4th Phase, 2nd Stage,
Industrial Area, Peenya, Bengaluru - 560 068.
www.sriyantra.co.in

As we strive for continuous improvement in performance and aesthetics of machines, we reserve the right to modify design / colour / features / specifications at any time of our choice .





Established as a Partnership Firm

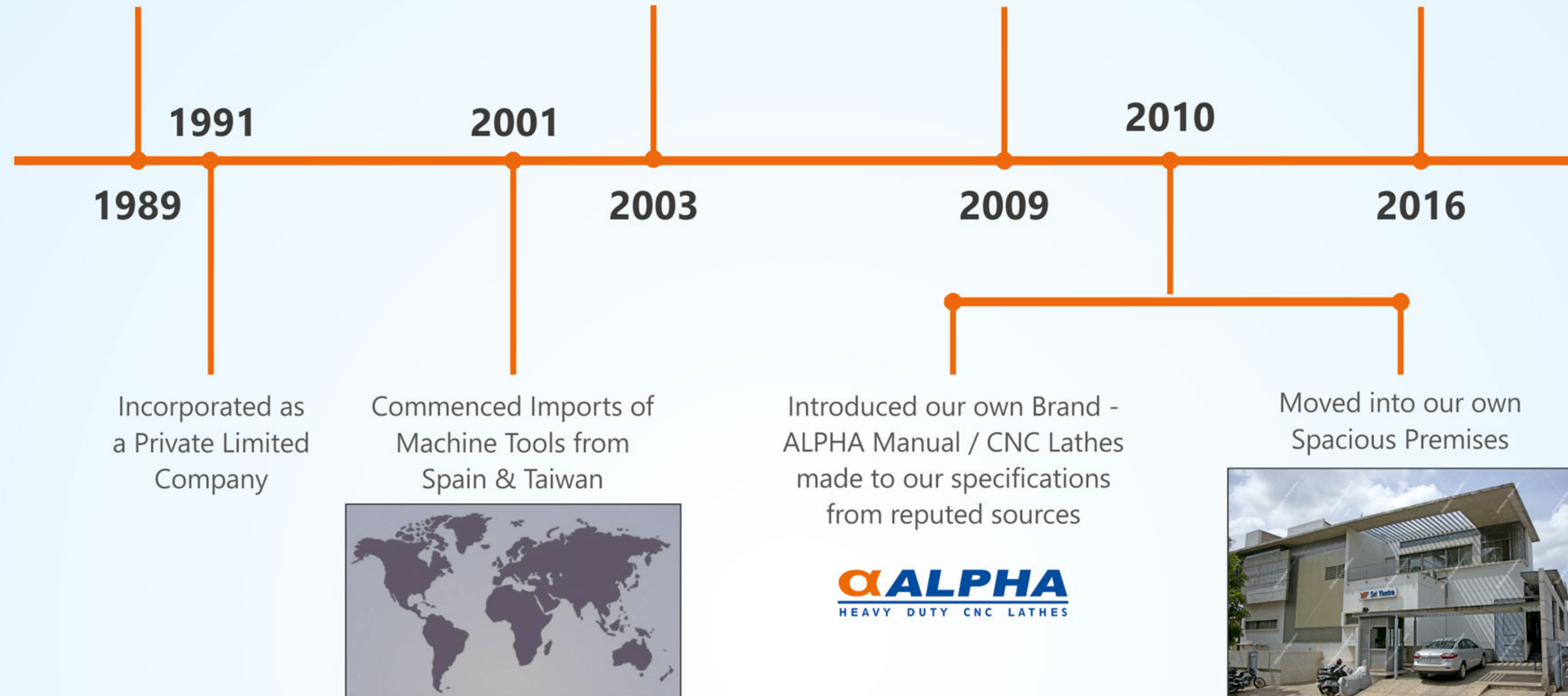


Commenced Stocking and All India Distribution

Commenced Imports of High Performance CNC machines from Korea & Japan



Commenced Building ALPHA CNC Lathes at Our New Plant



Supplied & Installed over **6000** Machines till 2020

A Dedicated Team of Professional Engineers with Combined Total Experience of 150 Years in Machine Tools



AVAILABLE IN ALL MAJOR INDUSTRIAL CENTRES

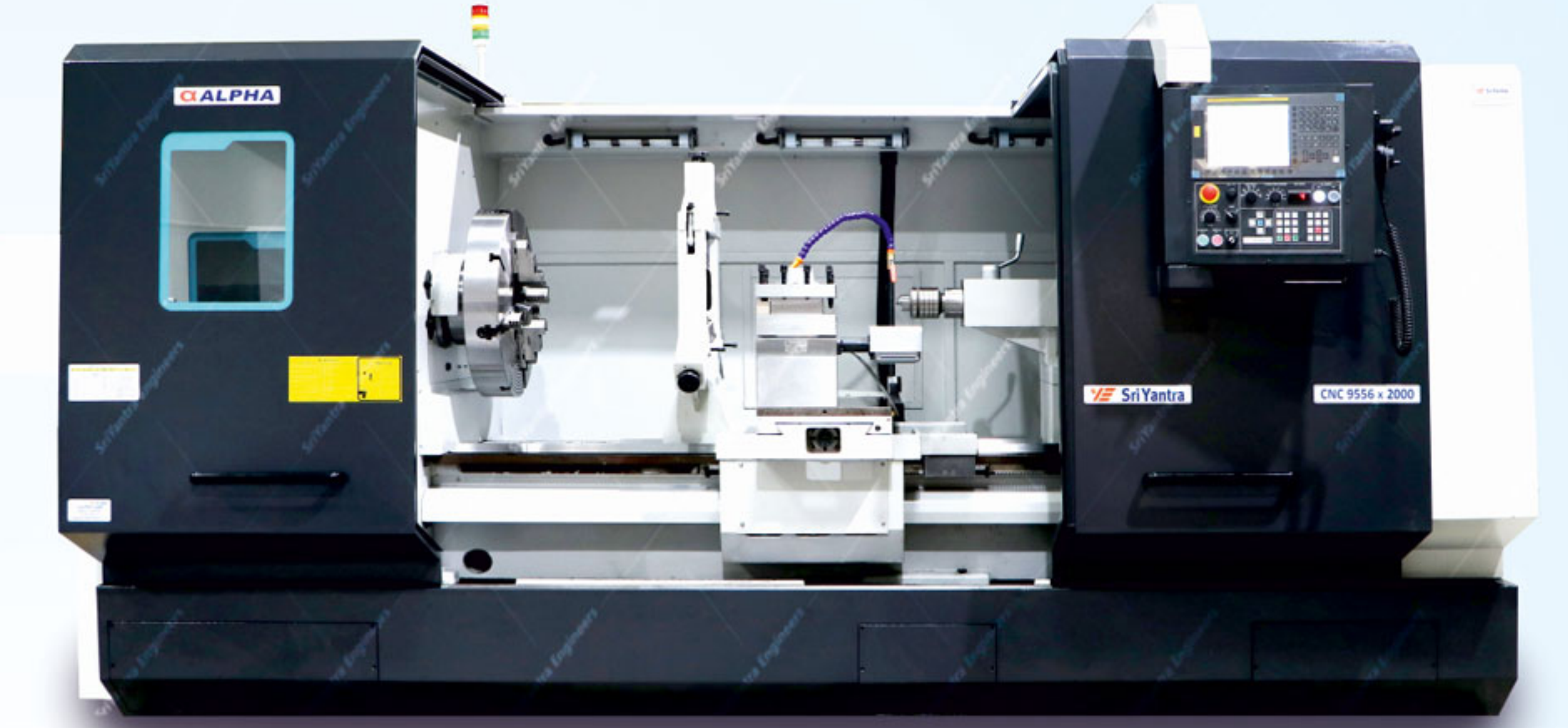
RANGES OF LATHES

- Swing Over Bed: Dia 400 mm - 2000 mm
- Between Centres: 500 mm - 16000 mm
- Spindle Bore: Dia 52 mm - 270 mm
- Weight Carrying Capacity: Upto 25 Tons
- Customisation available

CNC



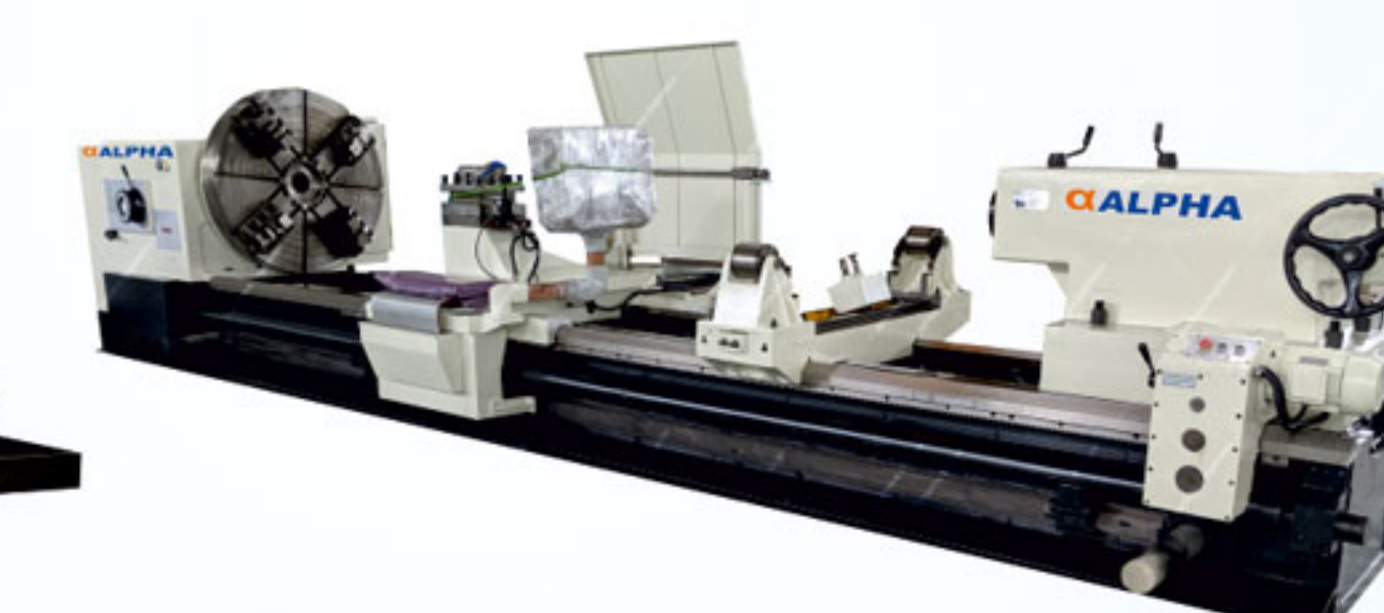
Stepless



Heavy Duty



Heavy Duty - Customised



Extra Heavy Duty



Ultra Heavy Duty



Facing

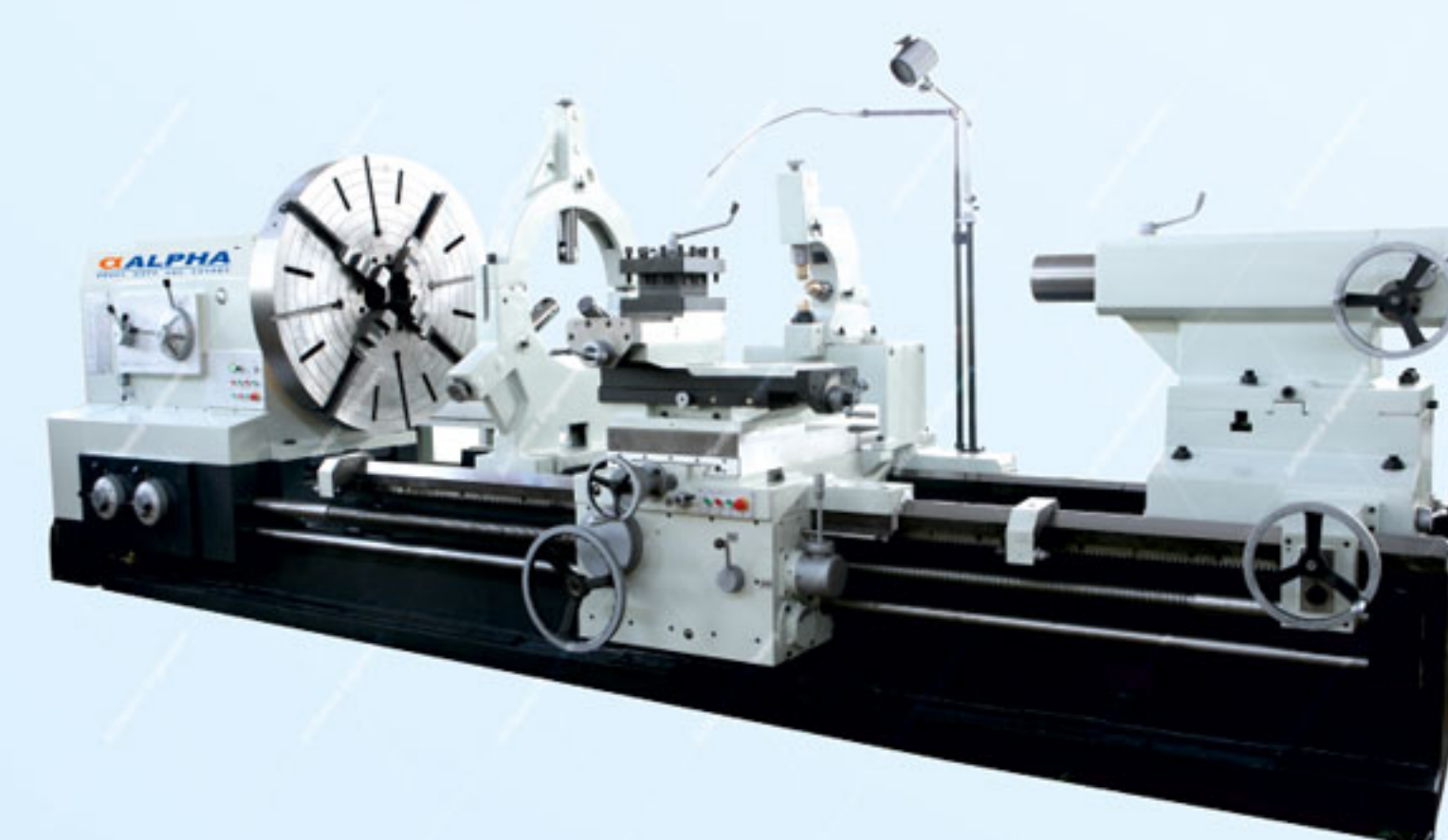


Big Bore

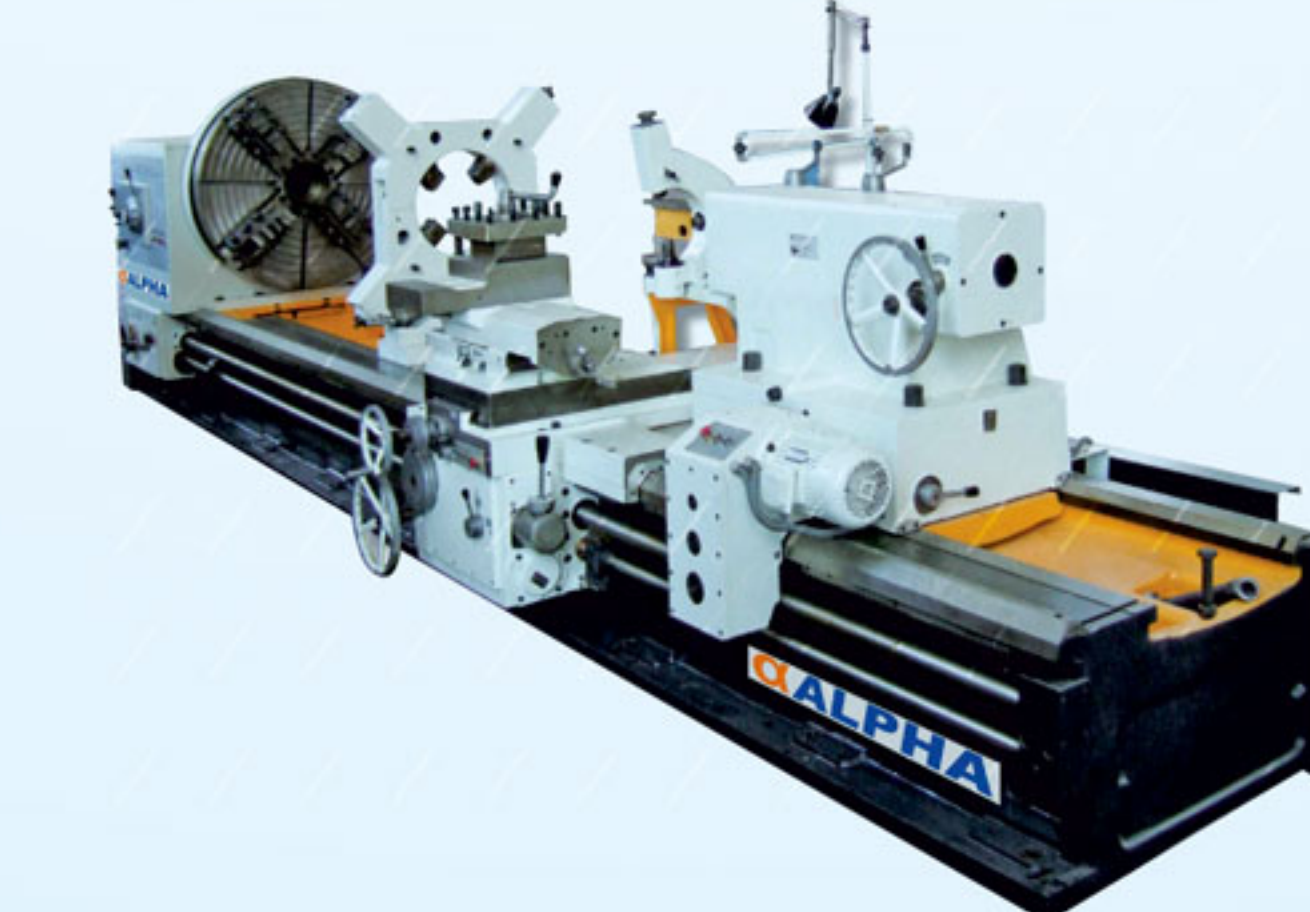


Turn Mill

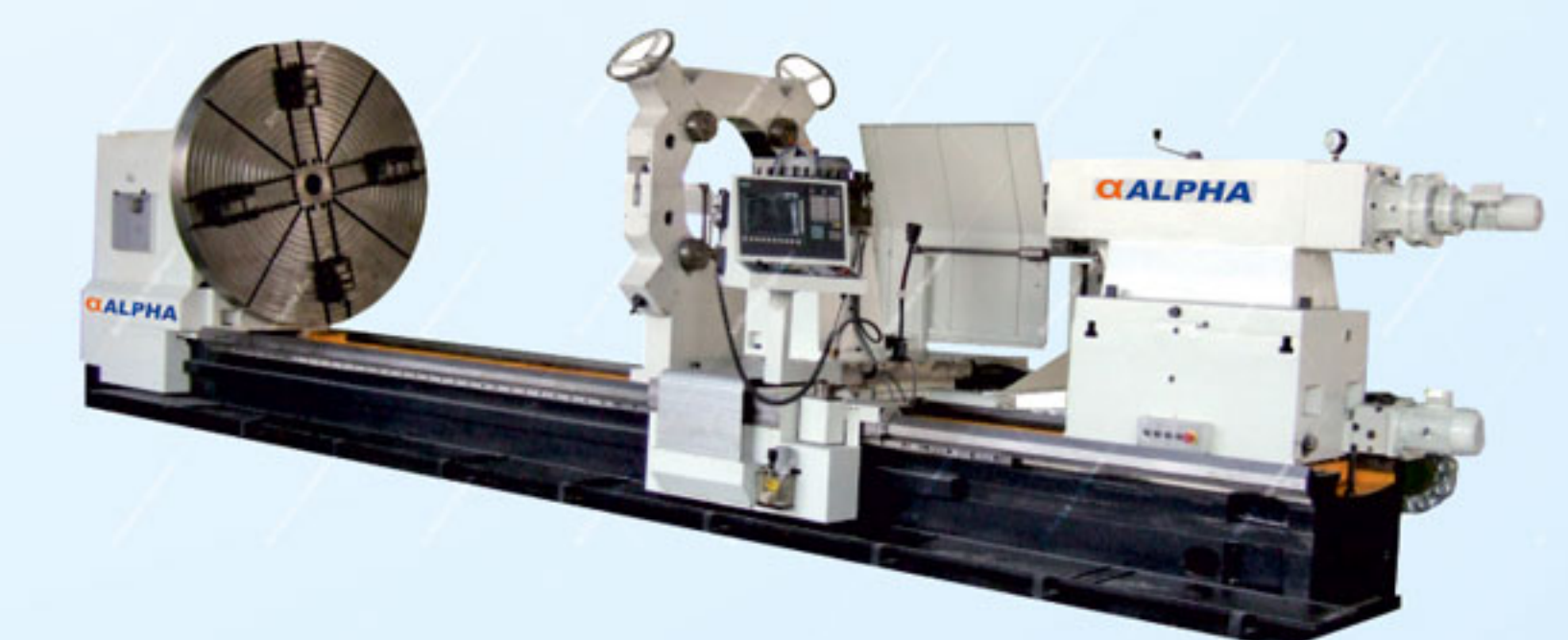
MANUAL



Heavy Duty



Extra Heavy Duty



Ultra Heavy Duty

HCS

Horizontal CNC Stepless Lathes



FEATURES

- All Major Castings are Grade 25.
- Main Spindle – High Torque Inverter Motor along with Heavy Duty VFD
- Stepless Belt Drive Headstock.
- High Spindle Speeds with Good cutting Power and Torque.
- Main Spindle Bearings are Lubricated for Life.
- Generous Bed Width to Centre Height Ratio.
- Bed Guideways – Induction Hardened to 400-450 BHN and Precision Ground.

ALPHA

HEAVY DUTY CNC LATHES

SUITABLE INDUSTRY SEGMENTS



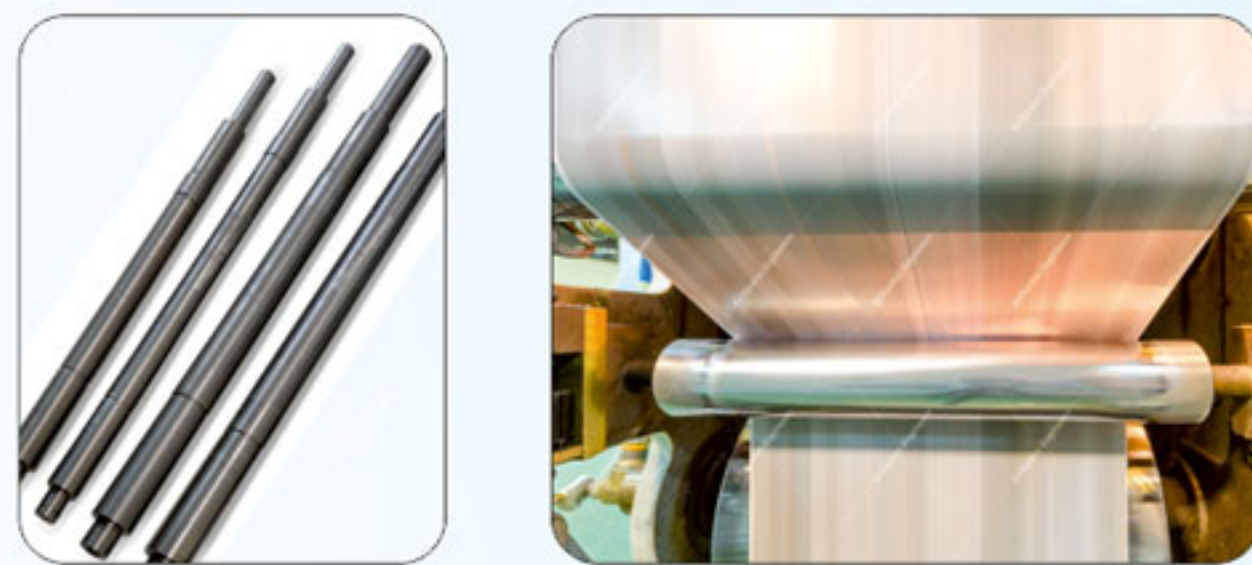
Submersible Rotor

Stator



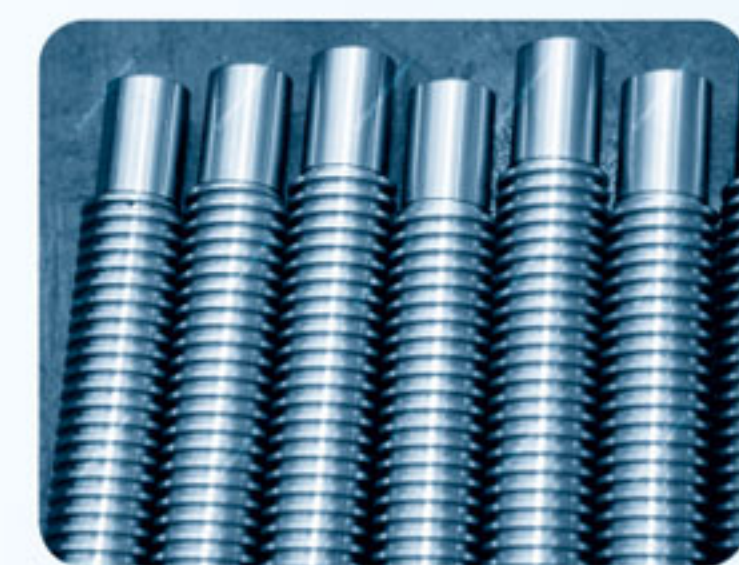
Shafts

Agri Implement Shafts



Motor Shafts

Light Printing Rolls



Lead Screws

MODEL		HCS 400 (4030)	HCS 460		HCS 500 (5040S)
			B2	B3 (4633)	
Swing Over Bed	mm	φ 400	φ 460	φ 460	φ 500
Swing Over Cross Slide	mm	φ 225	φ 240	φ 240	φ 300
Admit Between Centre	mm	900	1400	1400	1900 2900
Spindle Nose & Bore	mm	A2-6 /φ 52		A2-8 /φ 80	
Max Spindle Speed	rpm	2800		2000	2000
Main Motor Power	kw	5.5 (VFD Inverter)		7.5 (VFD Inverter)	15/18.5 (Spindle Servo)
Max Torque (with Full Power)	Nm	180@400 rpm		190@400 rpm	369@480 rpm
Rapid Feed	M/min	X = 8 / Z = 10			
Tooling Capacities (BTH is OP)	4 Way Auto Toolpost	mm	OD sq 20 ID φ 32 (BTH)	OD sq 25 ID φ 40 (BTH)	OD sq 25 ID φ 40 (BTH)
	Option 8 Pos	mm	OD sq 16 ID φ 25	OD sq 20 ID φ 32	OD sq 25 ID φ 40
TailStock Quill Dia X stroke	mm	MT 4 φ 60 x 120	MT 5 φ 75 x 130		MT 5 φ 90 x 150
Dimensions (L X W X H)	mm	2370 x 1200 x 1415	3300 x 1650 x 1800	3400 x 1650 x 1800	4250 5250 x 2050 x 1900
Net Weight	kgs	2000	2600	2900	3800 4400

* Specifications are subject to change without notice

HCH

Horizontal CNC Heavy Duty Lathes



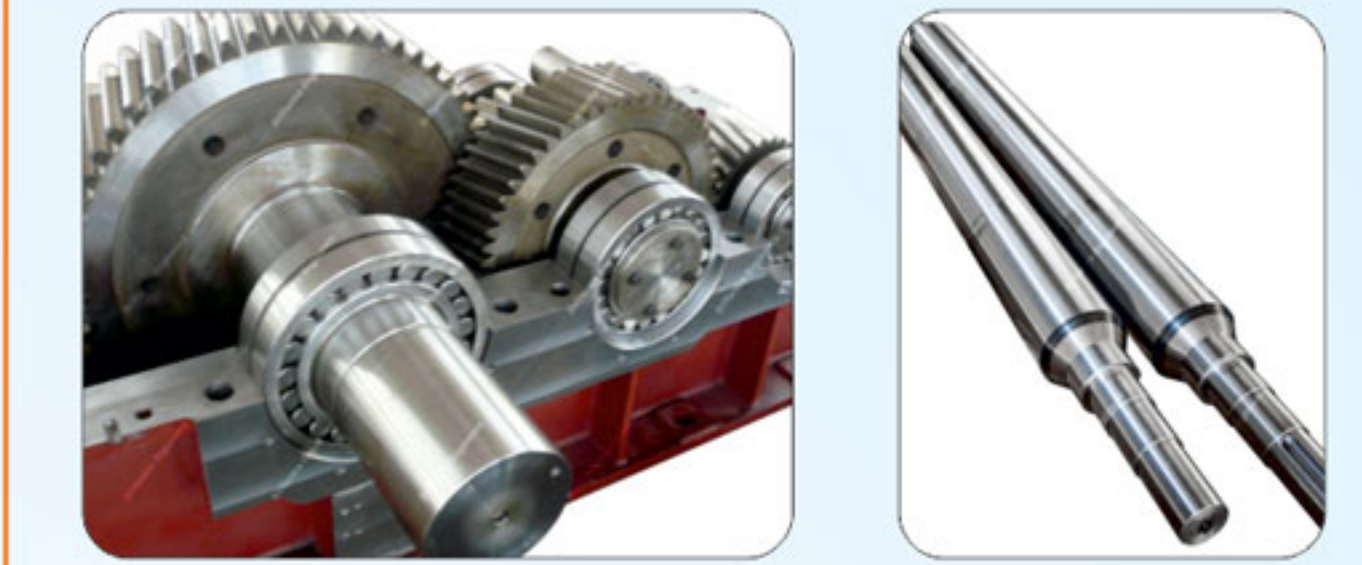
FEATURES

- All Major Castings are Grade 25 castings.
- Main Spindle – High Torque Inverter Motor along with Heavy Duty VFD
- Heavy Duty Gear Drive Headstock.
- All Gears and Shafts in Headstock are Hardened and Ground
- Oil Lubricated Headstock.
- Generous Bed Width to Centre Height Ratio.
- Bed Guideways – Induction Hardened to 400-450 BHN and Precision Ground.

ALPHA

HEAVY DUTY CNC LATHES

SUITABLE INDUSTRY SEGMENTS



Gearbox

Shafts



Motor Shaft & Stator

Trailer Axles



Valves

Pulley



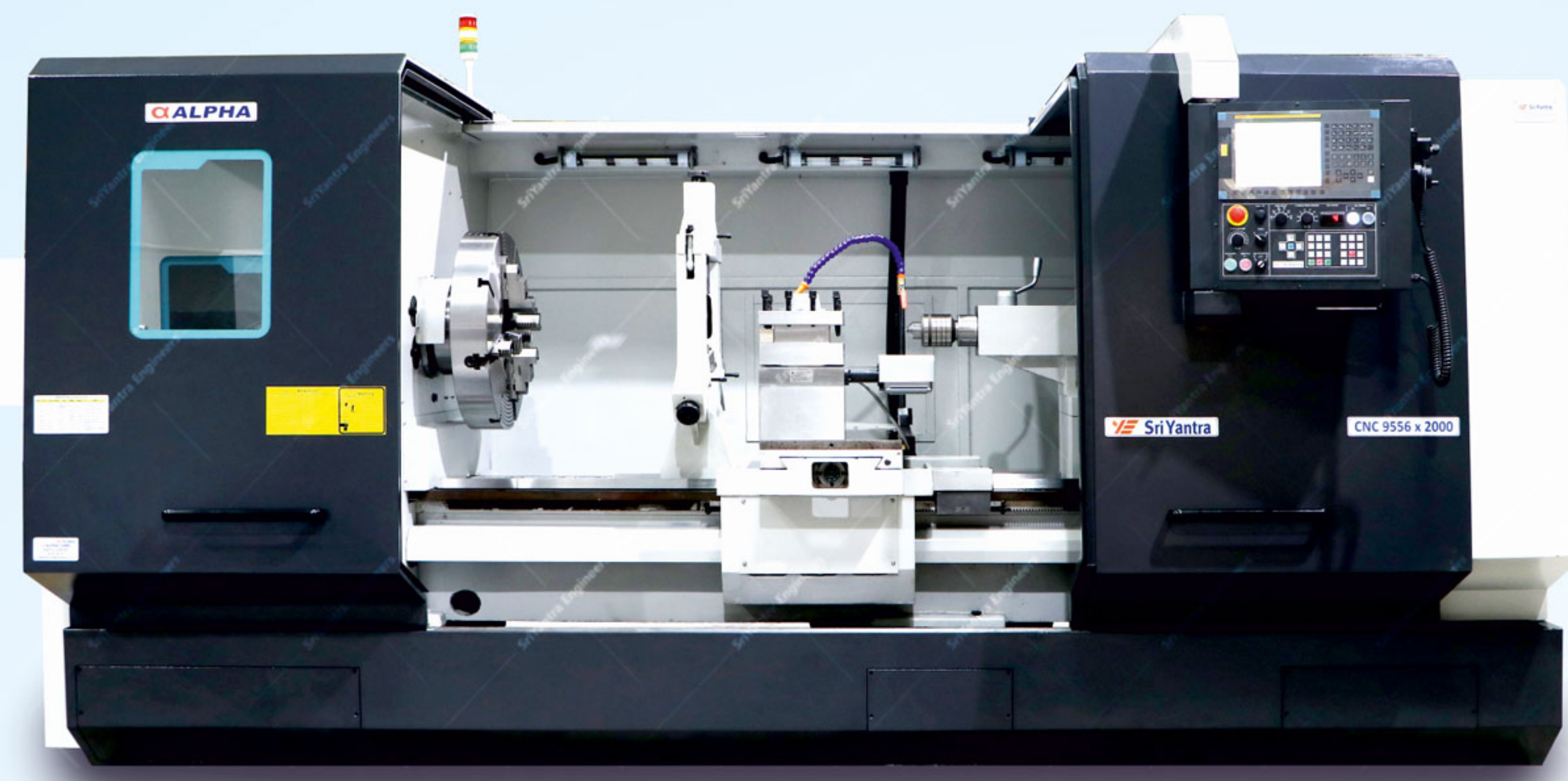
Hyd Cylinders

MODEL		HCH 560 (5633)	HCH 560-L (5640)	HCH 660 (6640)	
				B4	B6
Swing Over Bed	mm	φ 560	φ 560	φ 660	
Swing Over Cross Slide	mm	φ 330	φ 330	φ 430	
Admit Between Centre	mm	650 1400	900 1900 2900	900 1900 2900	
Spindle Nose & Bore	mm	A2-8 /φ 80	A2-8 /φ 80	A2-8 /φ 104	A2-11 /φ 155
Spindle Speed	rpm	2 Speed 20-250 200-1500	4 speed 27-135 55-270 160-805 325-1630	4 speed 27-135 55-270 160-805 325-1630	4 speed 30-130 60-250 130-520 250-1000
Main Motor Power	kw	7.5 (VFD Inverter)	7.5 (VFD Inverter)	STD: 11 (VFD Inverter) OP: 15/18.5 (Spindle Servo)	
Max Torque (with Full Power)	Nm	1429@53 rpm	1407@54 rpm	2056@54 rpm	1762@63 rpm
Rapid Feed	M/min	X = 8 / Z = 10			
Tooling Capacities (BTH is OP)	4 Way Auto Toolpost	mm	OD sq 25 ID φ 40 (BTH)	OD sq 25 ID φ 40 (BTH)	OD sq 32 ID φ 40 (BTH)
	8 Station Turret	mm	OD sq 25 ID φ 40	OD sq 25 ID φ 40	OD sq 32 ID φ 50
TailStock Quill Dia X stroke	mm	MT 5 φ 75 x 130	MT 5 φ 90 x 150	MT 5 φ 90 x 150	MT 5 φ 90 x 150
Dimensions (L X W X H) for (ABC 2000)	mm	2650 3400 x 1650 x 1800	4000 x 2050 x 1800	4100 x 2050 x 1900	4100 x 2050 x 1900
Net Weight	kgs	2250 2950	3000 4200 4800	3100 4300 5300	3200 4400 5400

* Specifications are subject to change without notice

HCH continued

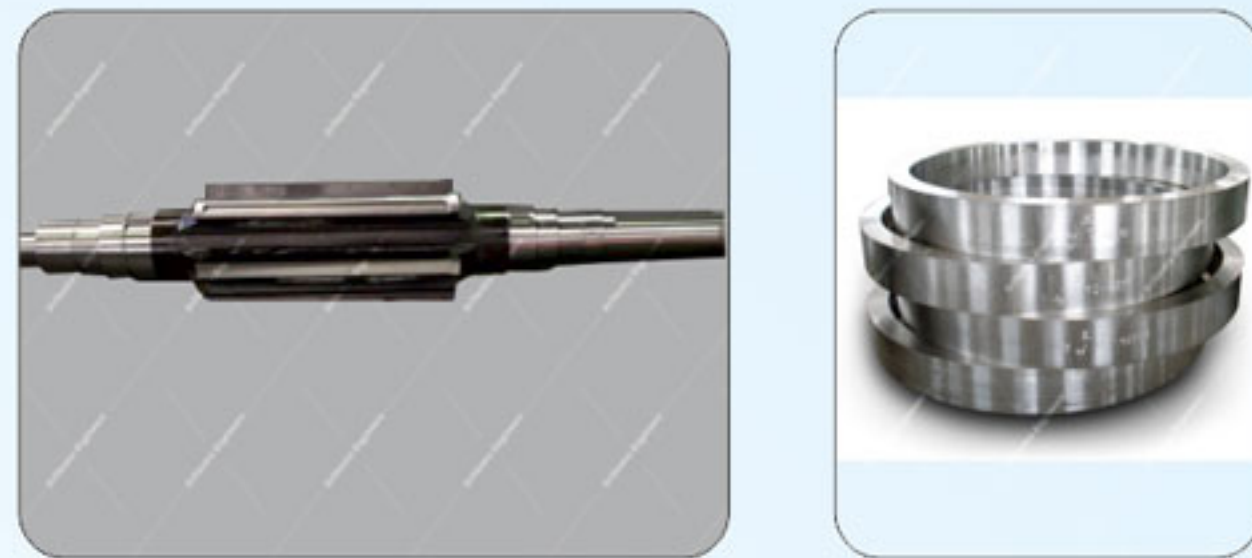
Horizontal CNC Heavy Duty Lathes



FEATURES

- All Major Castings are Grade 25 castings.
- Main Spindle – High Torque Inverter Motor along with Heavy Duty VFD
- Heavy Duty Gear Drive Headstock.
- All Gears and Shafts in Headstock are Hardened and Ground
- Oil Lubricated Headstock.
- Generous Bed Width to Centre Height Ratio.
- Bed Guideways – Induction Hardened to 400-450 BHN and Precision Ground.

SUITABLE INDUSTRY SEGMENTS



Big Rotor Shaft Forged Rings



Light Roll Shafts Pumps & Valves



Rope Drum Die Mould



Oilfield Casings-Collars

MODEL		HCH 950 (9556)		HCH 1100 (11060)		
		B4	B6	B4	B6	
Swing Over Bed	mm	φ 950		φ 1100		
Swing Over Cross Slide	mm	φ 600		φ 720		
Admit Between Centre	mm	900 1900 2900 3900 4900 5900		1400 1900 2900 3900 4900 5900		
Spindle Nose & Bore	mm	A2-11 / φ 104	A2-11 / φ 155	A2-11 / φ 104	A2-11 / φ 155	
Spindle Speed	rpm	4 speed 40-105 80-205 195-500 385-1000	4 speed 6-110 15-210 20-330 40-640	4 speed 10-90 20-180 40-320 80-630	4 speed 6-110 15-210 20-330 40-640	
Main Motor Power	kw	STD : 15 OP : 22 (VFD Inverter) OP : 18.5/26 22/30 (Spindle Servo)		STD : 22 (VFD Inverter) OP : 22/30 26/37 (Spindle Servo)		
Max Torque (with Full Power) with STD Motor	Nm	3025@60 rpm	2200@83 rpm	3304@69 rpm	2764@83 rpm	
Rapid Feed	M/min	X = 8 / Z = 10				
Tooling Capacities (BTH is OP)	4 way Auto toolpost	mm	OD sq 40 ID φ 50 (BTH)	OD sq 40 ID φ 50 (BTH)	OD sq 40 ID φ 50 (BTH)	OD sq 40 ID φ 50 (BTH)
	8 Station Turret	mm	OD sq 32 ID φ 50	OD sq 32 ID φ 50	OD sq 32 ID φ 50	OD sq 32 ID φ 50
TailStock Quill Dia X stroke	mm	MT 6 φ 120 x 250	MT 6 φ 120 x 250	Metric 80 φ 160 x 300	Metric 80 φ 160 x 300	
Dimensions (L X W X H) for (ABC 2000)	mm	4800 x 2100 x 2120		4800 x 2200 x 2270		
Net Weight	kgs	4500 5700 6300 6900 7500 8100		6300 6900 7500 8100 8700 9300		

* Specifications are subject to change without notice

HCH continued

Horizontal CNC Heavy Duty Lathes



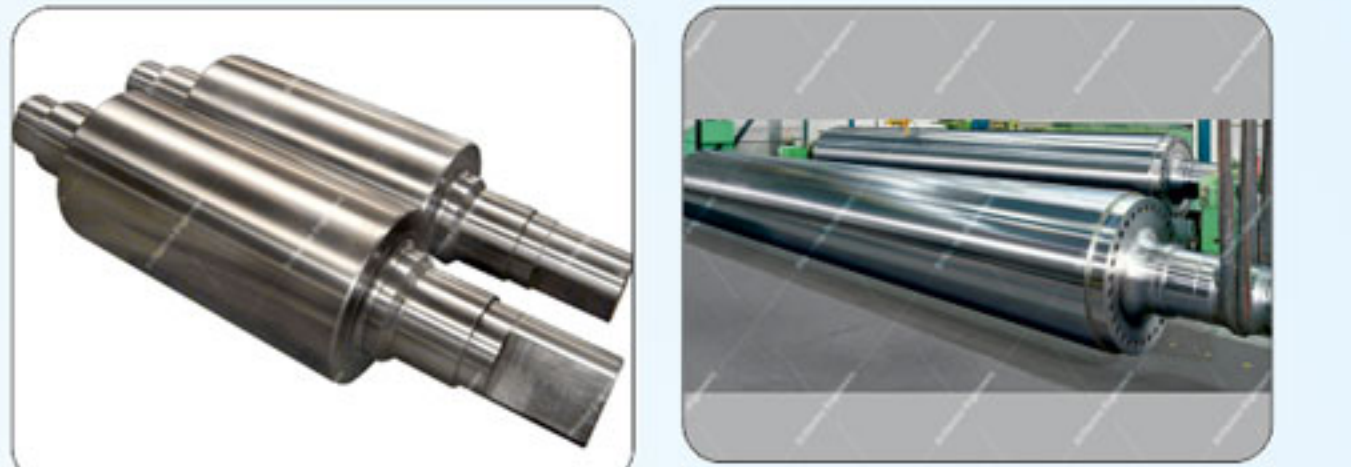
FEATURES

- All Major Castings are Grade 25 castings.
- Main Spindle – High Torque Inverter Motor along with Heavy Duty VFD
- Heavy Duty Gear Drive Headstock.
- All Gears and Shafts in Headstock are Hardened and Ground
- Oil Lubricated Headstock.
- Generous Bed Width to Centre Height Ratio.
- Bed Guideways – Induction Hardened to 400-450 BHN and Precision Ground.

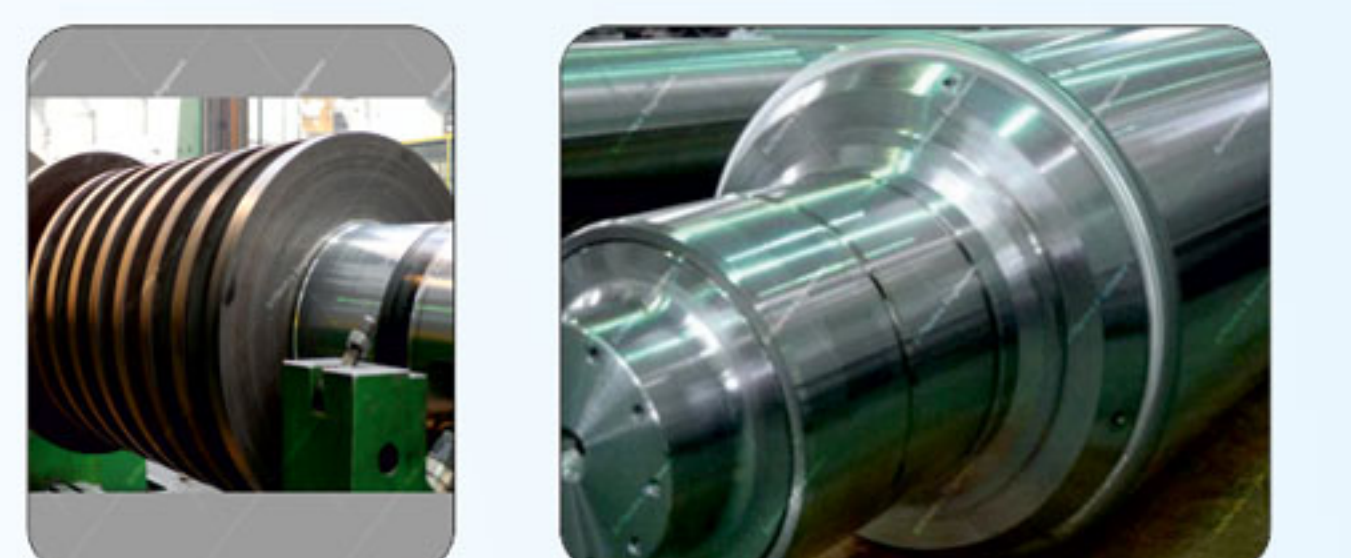
SUITABLE INDUSTRY SEGMENTS



Energy Shaft Large Valves



Chilled Rolls Textile Calendar Roll



Turbine Shaft Heavy Roll Shafts



Large Shafts

MODEL		HCH 1250 (12575)		HCH 1400 (14075)		HCH 1600 (16097)	
		B5	B4	B5	B4	B5	B4
Swing Over Bed	mm	φ 1250		φ 1400		φ 1600	
Swing Over Cross Slide	mm	φ 840		φ 990		φ 1190	
Admit Between Centre	mm	1400 - 9900		1400 - 9900		1400 - 9900	
Spindle Nose & Bore	mm	A2-15 / φ 130	A2-15 / φ 104	A2-15 / φ 130	A2-15 / φ 104	A2-15 / φ 130	A2-15 / φ 104
Spindle Speed	rpm	STD : 2 speed 2.5 - 34 20 - 270	STD : 2 speed 2.5 - 34 20 - 270	STD : 2 speed 2.5 - 34 20 - 270	STD : 2 speed 2.5 - 34 20 - 270	STD : 2 speed 2.5 - 34 20 - 270	STD : 2 speed 2.5 - 34 20 - 270
		OP : 4 speed upto 500	OP : 4 speed upto 500	OP : 4 speed upto 500	OP : 4 speed upto 500	OP : 4 speed upto 500	OP : 4 speed upto 500
Main Motor Power	kw	26/37 (Spindle Servo)	37/45 (Spindle Servo)	26/37 (Spindle Servo)	37/45 (Spindle Servo)	26/37 (Spindle Servo)	37/45 (Spindle Servo)
Max Torque (with Full Power) with STD Motor	Nm	42083@8 rpm	51190@8 rpm	42083@8 rpm	51190@8 rpm	42083@8 rpm	51190@8 rpm
Rapid Feed	M/min	X = 5 / Z = 8					
Tooling Capacities (BTH is OP)	4 way Auto toolpost	mm	OD sq 40 ID φ 50 (BTH)	OD sq 40 ID φ 50 (BTH)	OD sq 40 ID φ 50 (BTH)	OD sq 40 ID φ 50 (BTH)	OD sq 50 ID φ 50 (BTH)
	8 Station Turret	mm	OD sq 32 ID φ 50	OD sq 32 ID φ 50	OD sq 32 ID φ 50	OD sq 32 ID φ 50	OD sq 40 ID φ 50
TailStock Quill Dia X stroke	mm	Metric 80 φ 160 x 300	Metric 80 φ 200 x 300	Metric 80 φ 160 x 300	Metric 80 φ 200 x 300	Metric 80 φ 200 x 300	Metric 80 φ 200 x 300
Dimensions (L X W X H) for (ABC 1400)	mm	4900 x 2400 x 2300		4900 x 2500 x 2450		4900 x 2700 x 2600	
Net Weight (for ABC 2000)	kgs	12500 kgs (1000 kg for Addl. 1M)		13700 kgs (1200 kg for Addl. 1M)		13700 kgs (1200 kg for Addl. 1M)	

* Specifications are subject to change without notice

HCH-C

Horizontal CNC Heavy Duty - Customised Lathes



FEATURES

- All Major Castings are Grade 25 castings.
- Main Spindle – High Torque Inverter Motor along with Heavy Duty VFD
- Heavy Duty Gear Drive Headstock.
- All Gears and Shafts in Headstock are Hardened and Ground
- Oil Lubricated Headstock.
- Generous Bed Width to Centre Height Ratio.
- Bed Guideways – Induction Hardened to 400-450 BHN and Precision Ground.

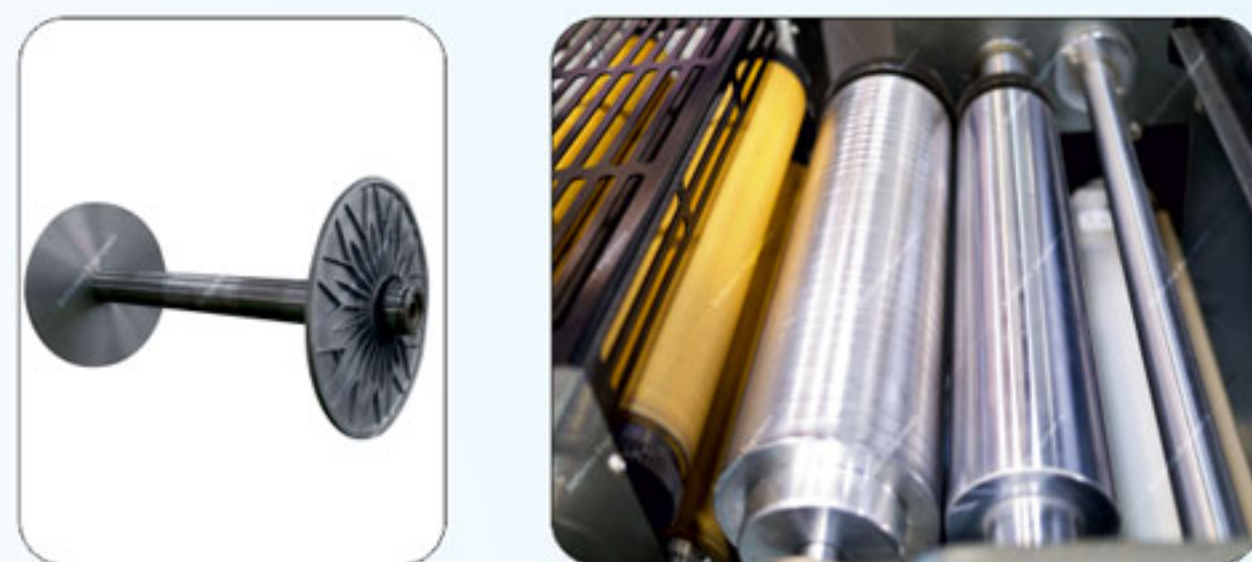
SUITABLE INDUSTRY SEGMENTS



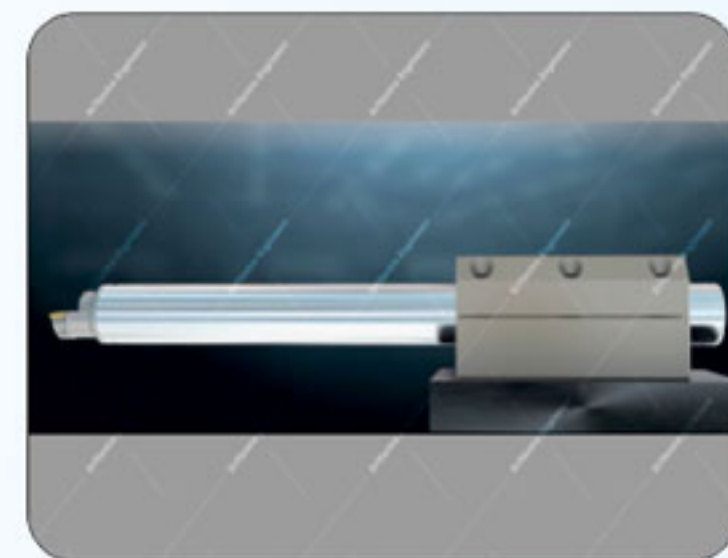
Extrusion Shaft Barrel Structural Tie Rods



Long Shafts Hyd Cylinders



Textile Beam Long Rollers



Long Boring Application

MODEL		HCH-C 630 (6356)		HCH-C 800 (8056)		HCH-C 910 (9160)	
				B4	B6	B4	B6
Swing Over Bed	mm	φ 630		φ 800		φ 910	
Swing Over Cross Slide	mm	φ 360		φ 500		φ 530	
Admit Between Centre	mm	3900 4900 5900		3900 4900 5900		3900 4900 5900	
Spindle Nose & Bore	mm	A2-11 / φ 104		A2-11 / φ 104	A2-15 / φ 155	A2-11 / φ 104	A2-15 / φ 155
Spindle Speed	rpm	4 speed 40-105 80-205 195-500 385-1000		4 speed 40-105 80-205 195-500 385-1000	4 speed 6-110 15-210 20-330 40-640	4 speed 40-105 80-205 195-500 385-1000	4 speed 6-110 15-210 20-330 40-640
Main Motor Power	kw	STD : 15 (VFD Inverter)		STD : 15 OP : 22 (VFD Inverter) OP : 18.5/26 (Spindle Servo)		STD : 22 (VFD Inverter) OP : 22/30 (Spindle Servo)	
Max Torque (with Full Power) with STD Motor	Nm	3025@60 rpm		3025@60 rpm	2200@83 rpm	3304@69 rpm	2764@83 rpm
Rapid Feed	M/min	X = 8 / Z = 10					
Tooling Capacities (BTH is OP)	STD 4 Pos	mm	OD sq 40 ID φ 50 (BTH)	OD sq 40 ID φ 50 (BTH)	OD sq 40 ID φ 50 (BTH)	OD sq 40 ID φ 50 (BTH)	OD sq 40 ID φ 50 (BTH)
	Option 8 Pos	mm	OD sq 25 ID φ 40	OD sq 32 ID φ 50	OD sq 32 ID φ 50	OD sq 32 ID φ 50	OD sq 32 ID φ 50
TailStock Quill Dia X stroke	mm	MT 6 φ 120 x 250		MT 6 φ 120 x 250	MT 6 φ 120 x 250	MT 6 φ 120 x 250	MT 6 φ 120 x 250
Dimensions (L X W X H)	mm	6200 7200 8200 x 2000 x 1980					
Net Weight	kgs	6300 6800 7300		6600 7100 7600		7800 8400 9000	

* Specifications are subject to change without notice

HCB

Horizontal CNC Big Bore Lathes



FEATURES

- All Major Castings are Grade 25 castings.
- Main Spindle – High Torque Inverter Motor along with Heavy Duty VFD.
- Geared Drive Headstock.
- High Spindle Bore with good cutting power and torque.
- Main Spindle Bearing are Lubricated by Oil.
- Generous Bed Width to Centre Height Ratio.
- Bed Guideways – Induction Hardened to 400-450 BHN and Precision Ground.

MODEL		HCB 900 (9056)	
		B8	B11
Swing Over Bed	mm	φ 900	
Swing Over Cross Slide	mm	φ 500	
Admit Between Centre	mm	1900 2900 3900 4900 5900	
Spindle Nose & Bore	mm	A2-11 / φ 210	A2-11 / φ 270
Spindle Speed	rpm	4 speed 10-60 20-115 35-205 65-380	4 speed 10-60 20-115 35-205 65-380
Main Motor Power	kw	STD : 18.5 ≤ 3M OP : 22 (VFD Inverter) OP : 18.5/26 22/30 (Spindle Servo)	
Max Torque (with Full Power) with STD Motor	Nm	2450@60 rpm	2200@83 rpm
Rapid Feed	M/min	X = 8 / Z = 10	
Tooling Capacities (BTH is OP)	STD 4 Pos	mm	OD sq 40 ID φ 50 (BTH)
	Option 8 Pos	mm	OD sq 32 ID φ 50
TailStock Quill Dia X stroke	mm	MT 6 φ 120 x 250	
Dimensions (L X W X H) for (ABC 2000)	mm	4800 x 2100 x 2120	
Net Weight	kgs	5700 6300 6900 7500 8100	5800 6400 7000 7600 8200

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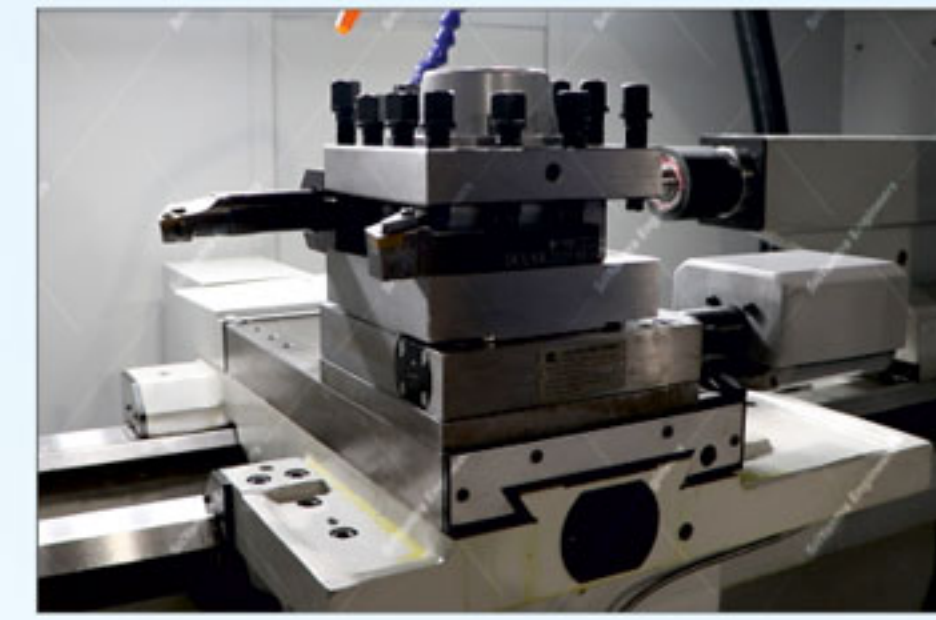
Superior Build Quality



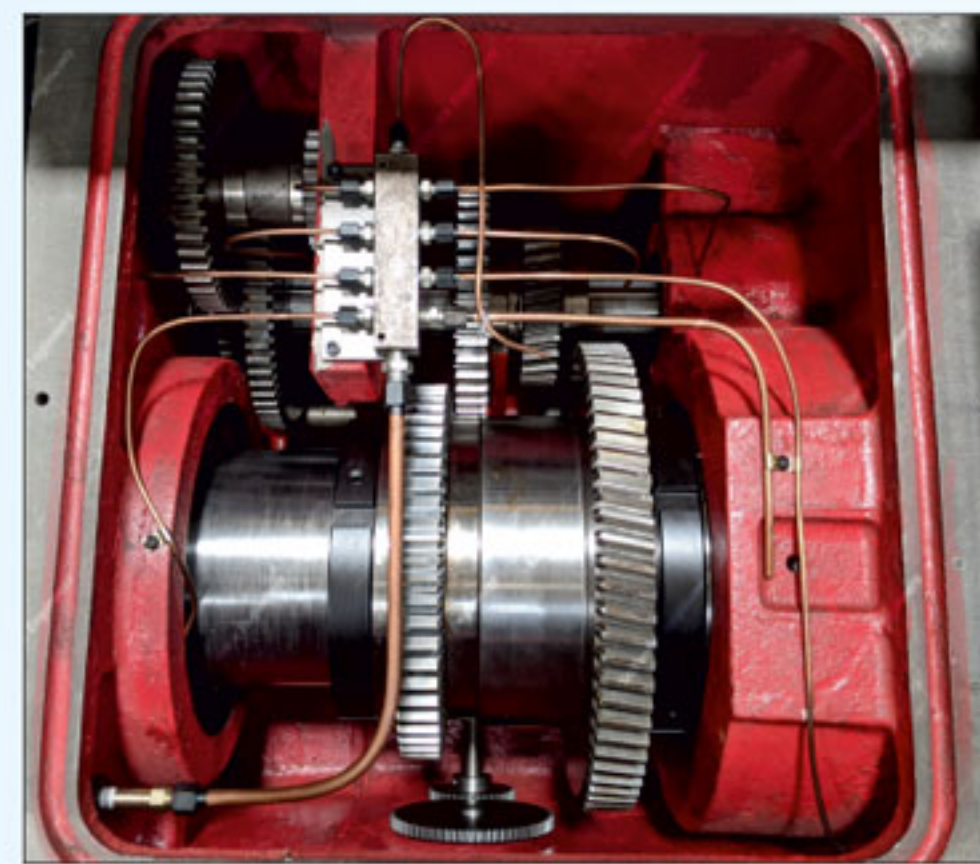
Heavily Ribbed Bed with Generous Bed width proportions



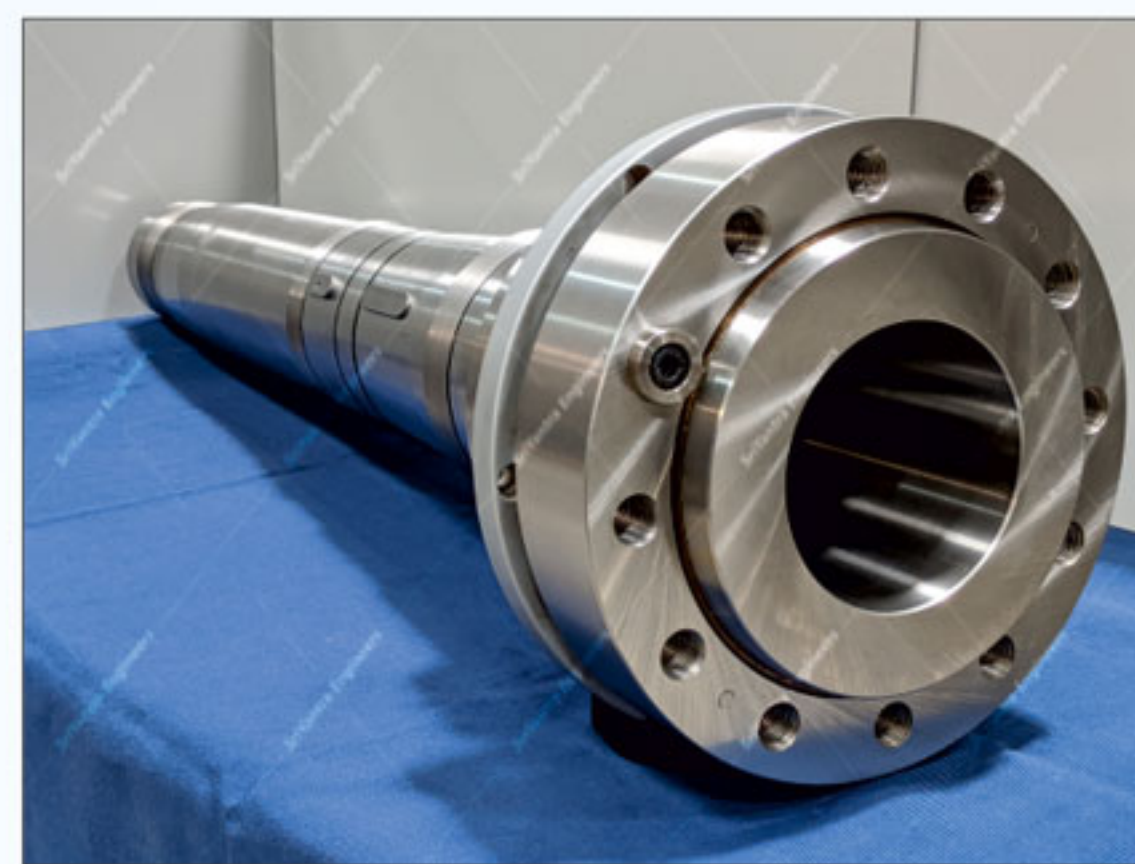
Longitudinal Bedways:
Induction Hardened to 400 – 450 BHN and Precision Ground



Guideways:
The Cross Slide moves on Precision Scraped Slideways and is secured with Precision Scraped GIB.



High Module Geared Drive for Main Spindle for High torque at Low RPM



Heavy Duty Spindle



Heavy Duty Tailstock
OP : Hydraulic Tailstock with Built-in cylinder



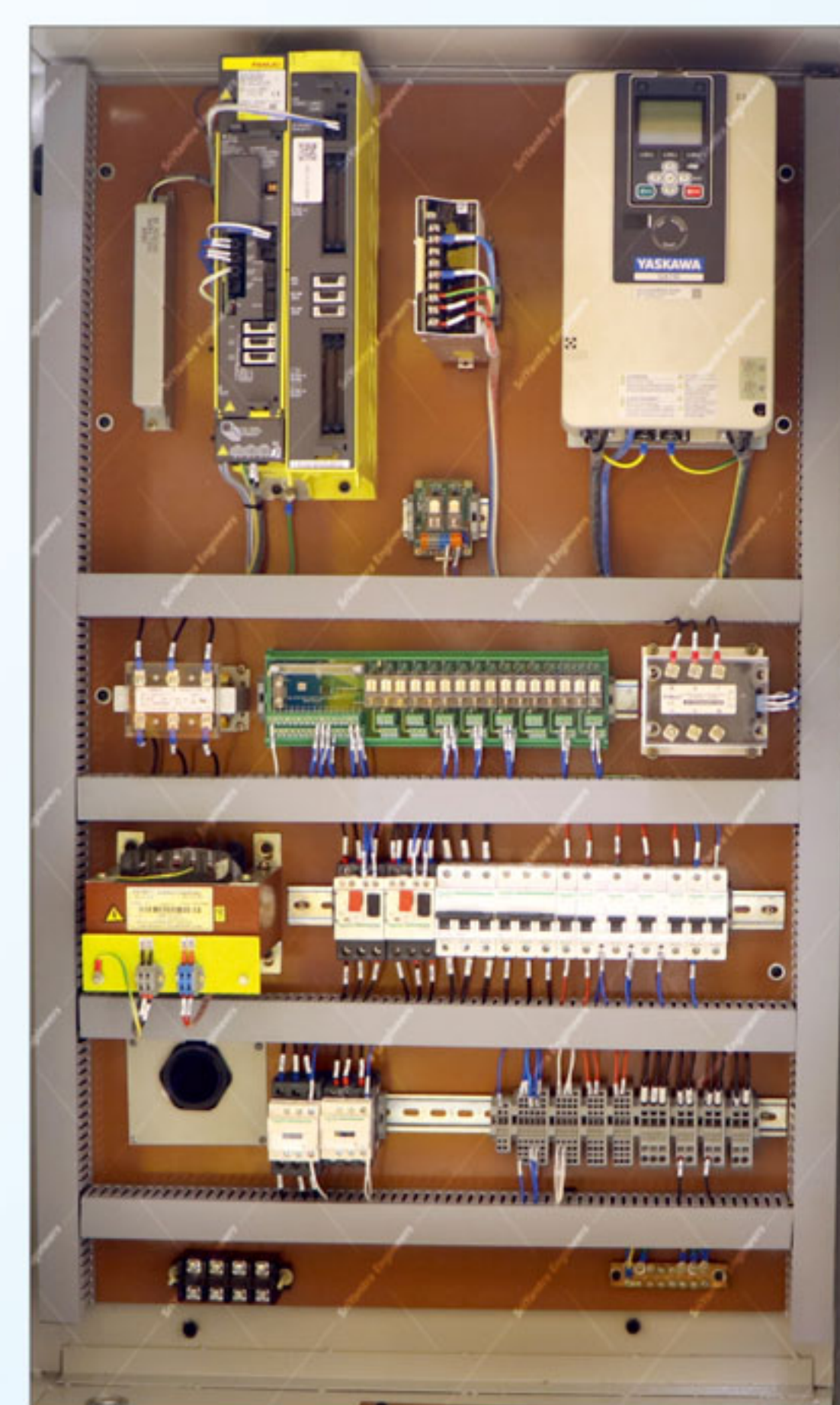
Extremely Compact Hydraulic Power Unit



User friendly Machine Operating Panel



Digital VFD with noise filters (Variable Frequency Drive)



Superior Electrical Circuitry with International standards of Cable Color Coding and Safety Features Built in.



Remote MPG for easy Machine Setting Up and Operating.



CNC System is Mounted on Moving Door for easy Machine Setting Up and Operating.



Digital Auto Lubrication Systems:



Easy Chip Removal from rear side of Machine

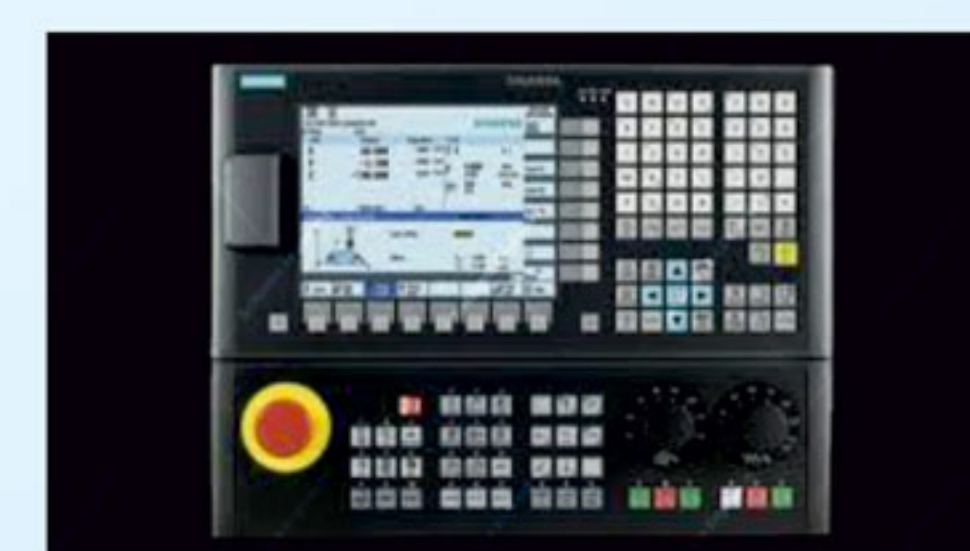
Options of CNC System



Mitsubishi



Fanuc



Siemens

Options / Accessories

