EASYMECH
www.mechmatrix.in

MECHMATRIX
Plot No.: F - 53, M. I. D. C., Satpur,
Nashik - 422 007. Maharashtra, India.
Tel: +91 - 253 - 2354030, 698801. Fax: +91 - 253 - 6601975.
Email: salesmmx@gmail.com / salesmmx@mechmatrix.in

MECHMATRIX
Making Machining Matters Easy

MECHMATRIX PRESENTS THE PINACHO RANGE OF HIGH PERFORMANCE TURNING MACHINES

Range of High Performance Machine Tools

- CNC Turning Lathe – Flat Bed Type
- Conventional All Geared Precision Lathe Machine

Advantages

INCREASED PROFITABILITY	High Metal Removal Capacity
VERSATILE	Capable of Machining Heavy Jobs and Small Size Components with Equal Size
EASY TO USE	Operators using Manual Lathes can use the CNC Lathe System without need of any prior CNC Experience

The CNC Lathe maintains the ease of use of a manual lathe, provides increased productivity and flexibility by replacing mechanical controls with state of the art technology.

Special Features

Operators using manual lathes can use the CNC Lathe system without having any CNC experience.

Electronic hand wheels are fitted for operator to handle the machine as on a conventional lathe. Machining is carried out by using a comprehensive choice of automatic cycles selected though the system.

CNC FAGOR 8055-i

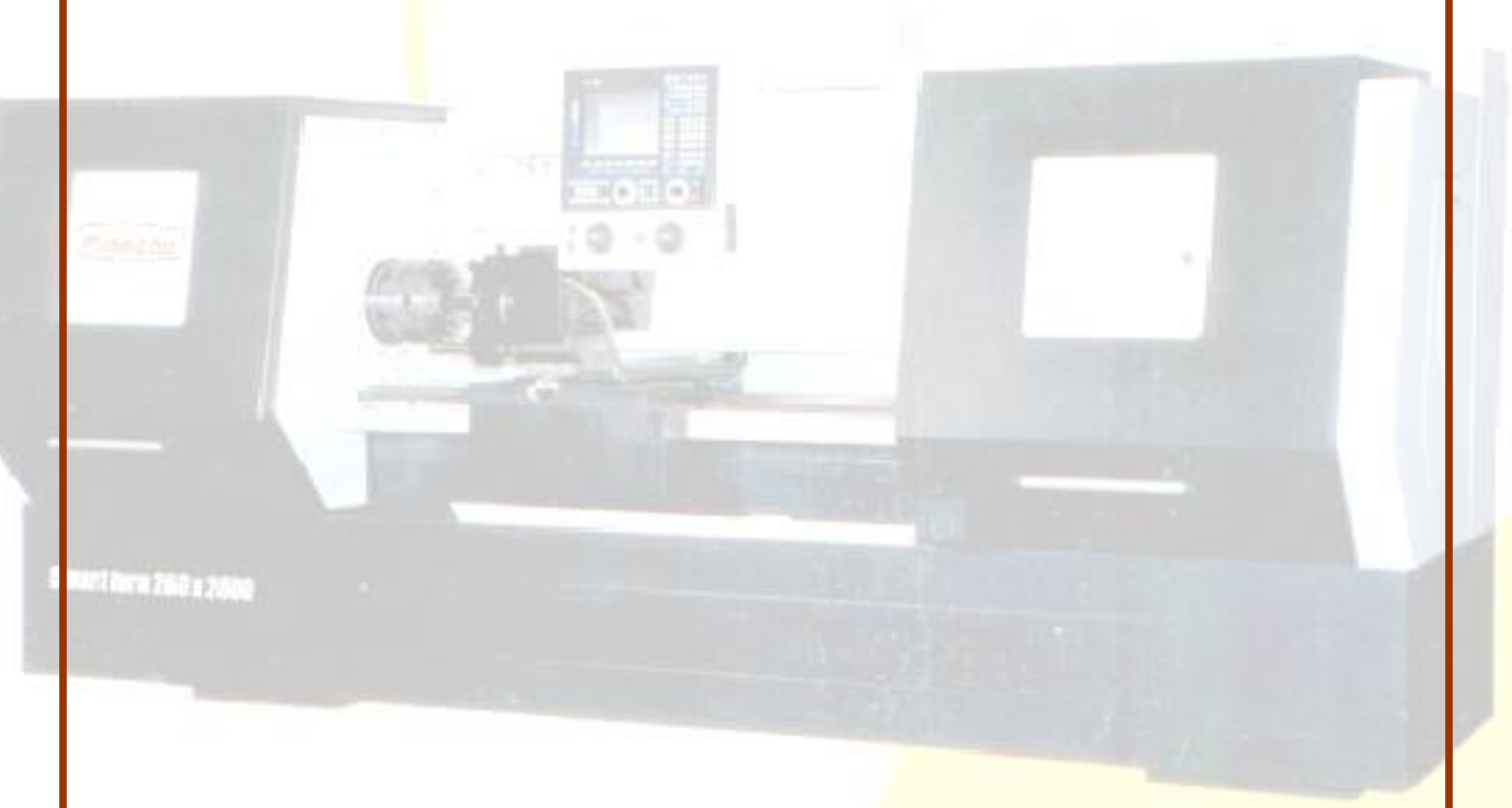
Basic configuration and main advantages

- 10,4" LCD Colour display
- Solid 3D graphics
- The operator can use at any time either the ISO programming system or the Fagor conversational programming system.
- Tool life monitoring.
- Up to 1 Mb of user RAM memory.
- Interpolated axis 4.
- Flash memory 512 kb/2GB to store user programs,
- OEM Programs, PLC Programs, customizing programs, parameter tables, etc.
- USB connector for backup of programs, parameters and tables.
- Ethernet (optional). TCP-IP protocol.
- Opto-coupled RS-232 serial line (115,200 baud).
- Feedback inputs for 2 electronic handwheels.
- PLC's opto-coupled digital I/O: 16 inputs and outputs integrated.
- I/O digital optional 40/12 integrated.
- I/O digital optional 72/48 remote x4.
- Analog interface 4+1
- Block processing time 6 ms
- Battery for CPU not required.
- Z axis Torque 11,6 Nm
- Power cable & Signal cable for Axis supplied along with me system.
- Signal cable for supplied motor supplied along with the system

Technical Characteristics

- The machine is built according to highest quality international standards.
- The hardened and ground (400-450 brinell) slides and guide ways for the carriage and bed assure a long life and allow high speed displacement.
- A main spindle of great rigidity with high precision angular contact bearings, which have been pre-loaded and greased for their working life, guarantees extremely accurate turning extremely big capacity of turning and outstanding finishes in the pieces.
- Hardened and ground ball screws on both the X and Z axis guarantees long life and great accuracy.
- Automatic lubrication of all slide ways.

- The whole machine has been built to conform to CE norms.
- For the highest capacity of turning and best finishing performance Tussor lathes are equipped with servo motor driving directly with main spindle without any gear box intermediate
- FANUC Oi MATE TC SYSTEM can be offered as OPTIONAL



The CNC SMART TURN lathe maintains the ease of use of a manual lathe, provides increased productivity and flexibility by replacing mechanical controls with state of the art technology.

Operators using manual lathes can use the SMART TURN system without having any CNC experience.

Electronic handwheels are fitted for operators to handle the machine as on a conventional lathe. Machining is carried out by using a comprehensive choice of automatic cycles selected though the system.

CNC FAGOR 8055-i

Basic configuration and main advantages

- 11" LCD Colour display.
- Solid 2D graphics.
- The operator can use at any time either the ISO programming system or the Fagor conversational programming system.
- Tool life monitoring.
- Up to 256 kB of RAM memory.
- Interpolated axis 4.
- Flash memory 512 MB.
- USB connector
- Ethernet TCP-IP protocol.
- Opto-coupled RS-232 serial line (115,200 baud).
- Feedback inputs for 2 electronic handwheels.
- Block processing time 6 ms
- Battery for CPU not required.
- Z axis Torque 11,6 Nm

TC Kit (Optional)

Including :

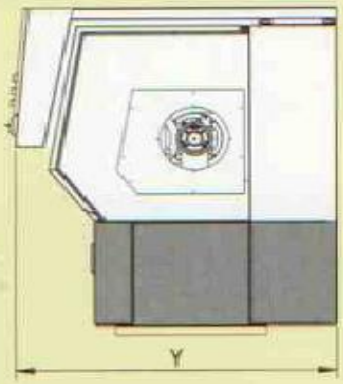
- Automatic 8 station toolpost.
- Hydraulic chuck through cylinder
- Hydraulic tailstock
- Hydraulic power unit.

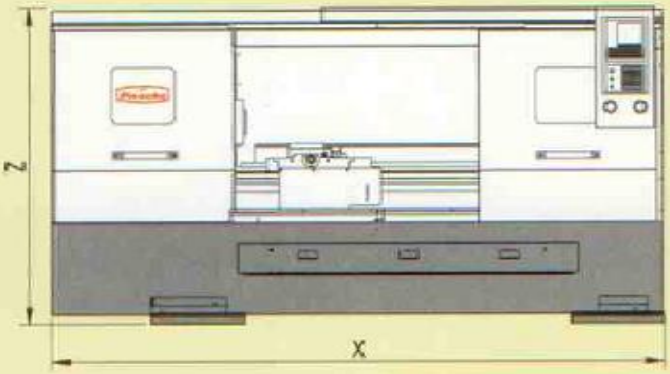
Standard Accessories

- Automatic vertical 4ways square toolpost.
- Complete enclosure and chip collecting tray.
- Coolant equipment.
- Automatic lubrication of the slide ways.
- Constant surface speed.
- Electronic handwheels for the X and Z axis.
- Dynamic solid and trajectory graphics.
- Profit editor.
- Low voltage work light.
- Main spindle reducing bush and fixed centers.
- Instruction manual.
- **Servo spindle motor**
- CE compliant.

Optional Accessories

- 8 station turret
- Tool holders for indexing quick-change toolpost
- Automatic toolpost with Octagonal disc.
- VDI disc.
- VDI disc tool holders.
- Steel universal 3-jaw chuck
- Hydraulic chuck through hole, through cylinder.
- Hard jaws for hydraulic chuck.
- Soft jaws for hydraulic chuck
- Hydraulic tail stock
- Hydraulic power unit.
- Chip conveyor.
- Communication program.
- Chuck backplate.
- Independent 4 jaw chuck
- FANUC Oi mate TC system
- Face plate.
- Steel Universal 4-jaw chuck
- Jaws for universal chucks.
- Fixed steady rest.
- Follow steady rest.
- Steady rest arms with rollers
- Real toolpost.
- Morse taper live center.
- Drill chuck.
- Hydraulic collect chuck.
- Collets
- Set of spanners and keys.
- Leveling plates.
- Live tooling.
- Live tool hoders
- 'C' axis
- Transformer.





	⇒⇐ ABC	X mm	Y mm	Z mm	WEIGHT Kg
180	750	2089	1340	1650	1400
	1000	2366	1340	1650	1680
225	1000	2555	1410	1780	1854
	1500	3055	1410	1780	2174
260/ 285	1000	2756	1490	1850	2500
	1500	3367	1490	1850	2715
	2000	3978	1490	1850	3200
	3000	4891	1490	1850	3900

In our constant efforts to improve our machines, we reserve the right to modify any of the technical details, design and color of the machines described in this catalogue.

Specifications subject to change without notice.
Not responsible for typographical errors

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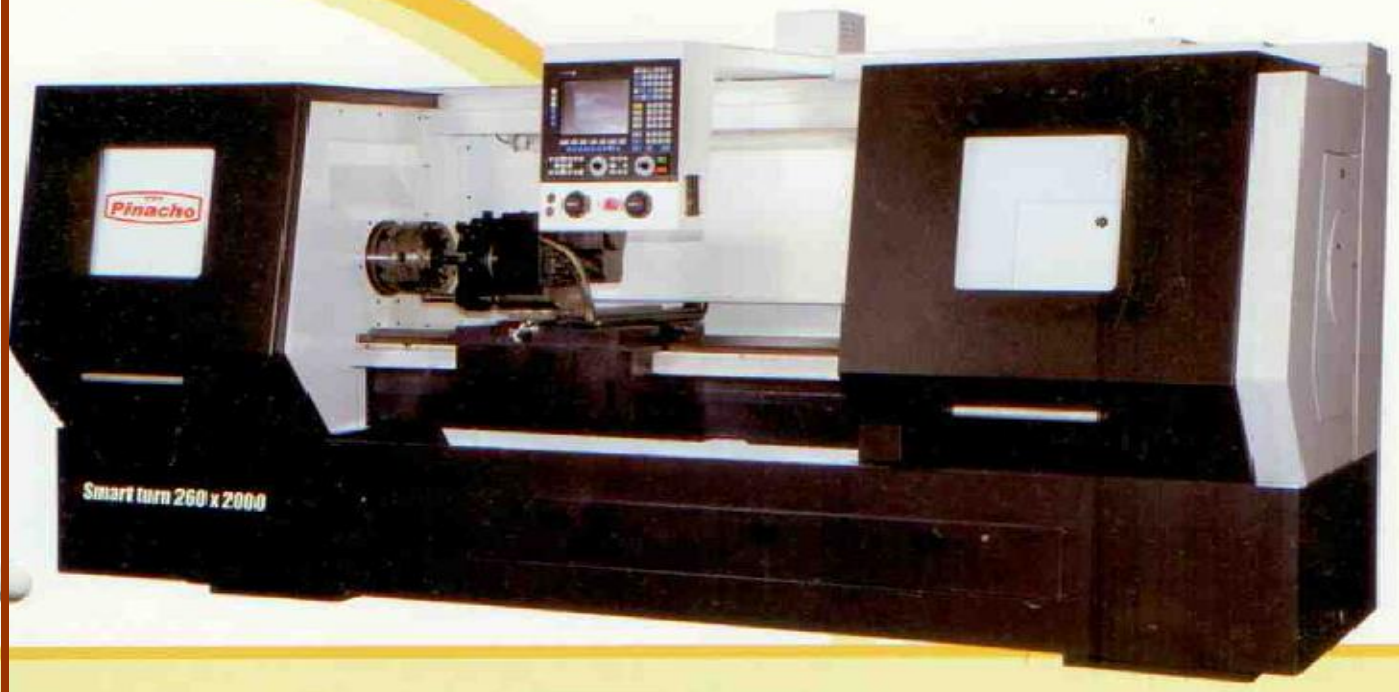
Hardened and ground ball screws on both the X and Z axis guarantee long life and great accuracy.

Automatic lubrication of all slide ways.

The whole machine has been built to conform to CE norms.



Technical Specifications

CAPACITY					
Model		**180**	**225**	**260**	**285**
Centre distance	mm	750 / 1000	1000 / 1500	1000 / 1500 2000 / 3000	1000 / 1500 2000 / 3000
Swing over bed	mm	360	450	520	570
Swing over carriage	mm	300	370	460	490
Swing over cross slide	mm	190	260	310	340
Bed width	mm	250	300	350	350
HEAD STOCK					
Main spindle bore	mm	42	65	80	105
Main spindle nose	Type	A2 - 5	A2 - 6	A2 - 8	A2 - 8
Main spindle Morse taper	No	4	5	5	5
Speed range	R.P.M.	0 - 4000	0 - 3500	0 - 2500	0 - 2500
SLIDE AND CARRIAGE					
Working feed Z,X	(mm/min)	0 - 7500	0 - 7500	0 - 7500	0 - 7500
Rapid traverse Z,X	(m/min)	15	15	15	15
Z - axis ball screw dia	mm	38	38	38	38
Z - axis ball screw pitch	mm	10	10	10	10
X - axis ball screw dia	mm	20	20	20	20
X - axis ball screw pitch	mm	5	5	5	5
Cross slide travel	mm	195	255	310	310
TAIL STOCK					
Tail stock Barrel Diameter	mm	58	68	82	82
Tail stock Barrel Travel	mm	180	200	220	220
Tail stock Barrel Taper	No	4	5	5	5
MOTORS					
Main motor power	Kw	7.5 / 12	15 / 24.5	17 / 25	17 / 25
Pump motor power	Kw	0.06	0.06	0.06	0.06