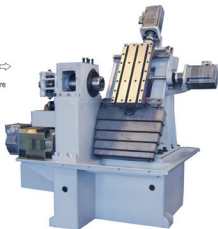


Deepak-42 CNC Turning Machine...

The 'Deepak-42' is a technological revolution in CNC Machine Tool Industry. In today's competitive market, you need to produce world class Component quickly, accurately and with minimum non-productive time. 'Deepak-42' gives fastest through put required by today's Customers.

Rigid Structure

The rigid bed and 60° slant saddle are made of steel fabricated structure which is stress relieved after rough machining. Rigid bed and Slant Saddle are ergonomically designed for easy chip and Coolant flow. It is Logically ribbed to provide rigidity. Chip conveying facility can be Provided to the front-right side of the machine.



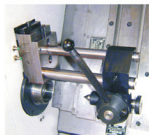
Head Stock



Made out of High Grade Cast Iron. Fins are provided for efficient heat dissipation.

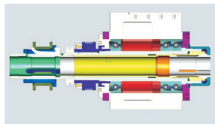
Centre Support Attachment

Special attachment mounted on Vertical Slide base can be offered in Place of Part-off slide. It is having carbide Centre for Supporting Slender Components for machining. The Component length for Centre Support Can be accommodated upto 100mm.



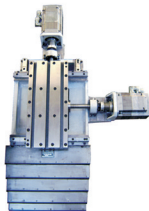
Spindle Assembly

Spindle assembly consisting of high precision preloaded angular contact ball bearings lubricated for life. Spindle assembly is Carried out in a dustproof environment. Bearings are directly fitted in head stock bores for high rigidity. Front two bearings in 'Tandem' and Rear one Bearing in 'Back to Back' Configuration gives high stiffness to Spindle assembly in both axial & radial directions.



Axes

X & Z Axes are moved by high Precision C3 Class Preloaded ball screws supported by Precision class bearings. The guideways are widely Spaced to ensure Stability. Imported flexible couplings are used to transmit the torque from motor shaft to ball screw. X & Z axis guideways and ball screws are covered with telescopic guards. Automatic Centralised Lubrication system is provided to lubricate L.M. blocks & ball screws.



Part of Slide

It is Vertically mounted on head Stock. Sliding parts are made from high grade cast iron. Logical ribbed for high rigidity. stress relieved before Scraping. Slide moves at any predetermined position by use of 'M' Codes.



CNC System

- Siemens 802C
- No. of Axis - 2 Nos.
- Manual data input
- Part Program storage & editing
- Tool nose radius
- Constant Surface Speed Control
- Multiple repetitive Cycles
- Thread Cutting cycles
- Linear and circular interpolation
- RS232C Interface
- Backlash Compensation

Power Speed Diagram

P_{10} (kW)	P_{20} (kW)	M_{10} (Nm)	M_{20} (Nm)	n_{10} (RPM)	n_{20} (RPM)	T_{10} (mm)	Z (mm ²)	R (kg)
3.7	1500	24	10	9000	20	0.017	42	

