



ABHIJATTM
EQUIPMENTS PVT. LTD.

- Excellent Ergonomics
- idle time Saver
- Excellent Combination of Rotary and Linear Tools

Ajinkya 4X-42



Ajinkya-4X-42

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We don't only sell machines, we also build relationship.

Ajinkya 4X-42

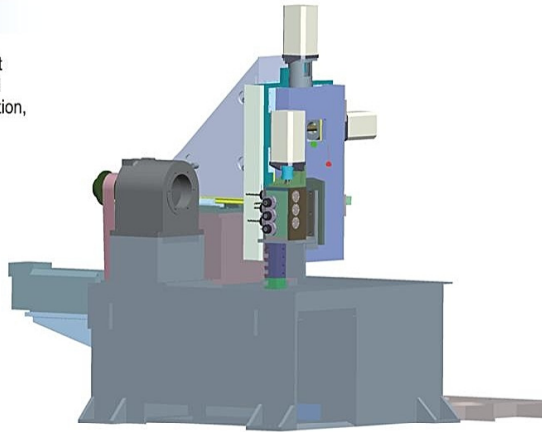
CNC TURNING MACHINE

Ajinkya 4X-42 CNC Turning Machine

This is a 4 axis Linear tooling turn mill lathe, the most economical alternative to a turret type C axis lathe. The tooling system comprises of 4 turning, 4 boring & 6 live tools, giving a total capacity of 16 tools. It's unique design allows rapid chip to chip time. It's design enables reduction in cycle times. About 25% of processing times can be reduced and the economical efficiency of the machine is increased. The rigid design of machine allows heavy duty cutting to be performed. 6 Live tool spindles with both C axis & Y axis can complete most complex work piece in single setup. The 90° vertical design of slide enables direct chip fall into chip tray without any accumulation on slide.

Structure

The machine base, slides are ribbed rigidly to impart stability & robustness. They are accurately machined & ground for optimum performance, minimum distortion, superior vibration control, cutting stability. The machine is ergonomically designed to provide easy access to working area, operation panel. Well dimensioned spaces for flow of chips and circulation of cutting fluids is provided.

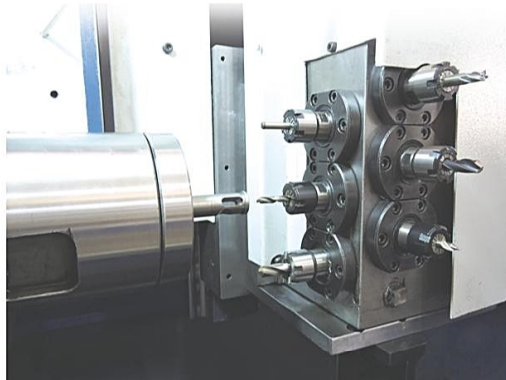


Tooling System

The gang tooling system allows fast chip to chip time as the travel of tool is very less while changing tool position.

The addition of Y axis allows complex 'off centre' milling operations to be done, and with full C axis control many complex shapes can be machined. Thus the machine can be used as turn mill centre. Tool holding of the live tool is made by ER20 collets enabling the use of economic standard tools.

The slide have X, Y & Z axis movements & hence drilling or milling on face, drilling or milling on PCD, drilling or milling on diameter, Spanner flat on shaft diameter, helical grooving, polygonal milling, square or hexagonal shape cutting are easily possible on machine.



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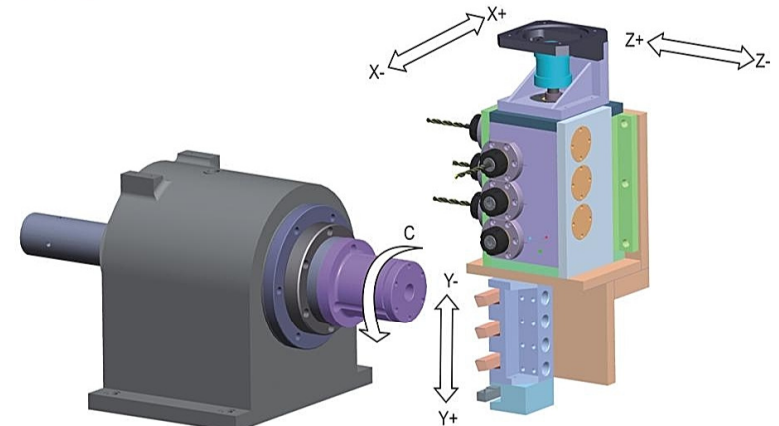
Spindle

The cartridge type case hardened alloy steel spindle runs on P4 high precision bearing giving high radial and axial forces to be carried, allowing for heavy duty cutting. Oil is circulated in headstock for better cooling effect of spindle. The spindle is assembled and tested in a temperature controlled clean room, sealed, and requires no maintenance. The spindle housing has a symmetrical design and is large to allow heat dissipation and thermal stability.

Linear Guide ways

The machine is equipped with high precision, imported liner guide way. The use of 35 mm rails increases stability, accuracy and allows heavier cuts to be taken.

Ajinkya 4X-42 Livetool



CNC System

No of axis- 5 nos X, Y, Z, C, rotary tools
Manual Data Input
Part programme storage and Editing
Constant Surface speed control
Thread cutting cycles
Linear, Circular interpolation
Backlash Compensation
Rigid tapping



"OUR QUALITY PRODUCTS NOW TOUCHING NEW HORIZONS WORLDWIDE"

Basic Machine features

- Spindle assembly supported in preloaded precision class bearings of P4 Class Accuracy, cartridge cooled. External encoder feedback
- Servo spindle and axes drives.
- Rigid structured stress relieved bed and slides
- Fully supported tool carrier gear box on Y Axis , aligned linear tool slide, 6 rotary and 4 linear tools
- Ball screws and LM ways to all slides
- hydraulic collet chucking
- Coolant system and chip tray
- Machine Lamp , Panel Lamp, Signal Lamp
- Centralized motorized Lubrication System
- Totally enclosed machine enclosure with single sliding door,
- Tool Kit and machine manual
- C axis for accurate spindle orientation.
- Advanced Controller

Optional Machine Features

- Chip conveyor
- Auto loading system
- Bar Feeder
- 3 jaw chuck
- Voltage stabilizer

Machine Specifications

Main Spindle	
Spindle speed	4000 r.p.m
Spindle Motor	5.5 KW
Spindle collet chuck	Ø42 mm
Spindle Nose	A2-5
Chuck dia max.	135 mm
Motorized tools	
No of motorized tools	6 (3 Axial +3 radial)
Motorized tools speed	4000 Max
Max Drilling Dia	10 mm
Max tapping size	M8
Overall size L*W*H	2500*1800*2000 mm
M/c Weight	2800 Kg.
Machine Type	
No of NC Axis	4
Max Spindle Bore	42 mm
Turning Length Max	160mm
Rapid traverse	15 m/min
No of tools	
OD tools	4
ID tools	4
Tool shank size	20x20 mm
Boring bar	20 mm

Typical Jobs done on Ajinkya 4x-42



Note : We reserve the rights to modify specification in accordance with improved design.
Although every effort will be made to maintain accuracy in the figures must be taken as approximate and in no way binding.



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