

DX 150

CNC Turning Center

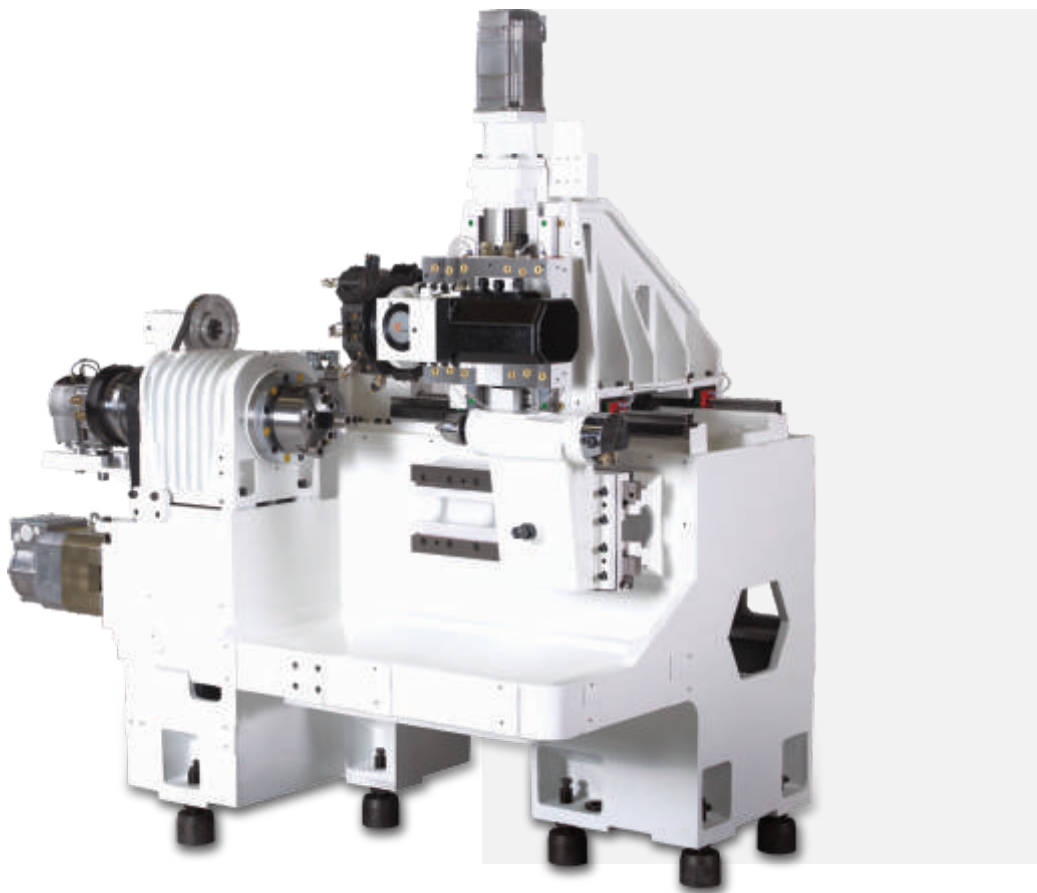


DX 150

CNC TURNING CENTER

OVERVIEW

A turning machine with a cutting edge technology and an neophilic design now opens up a new era for the Dry Machining Technology world. Specially conceptualized design keeps the machine at an angle of 90° so that it can provide various advantages. One of the advantages allows vertical fall of chip and coolant, preventing any damages to linear motion guideways and ball screws, which increases overall machine life.



STRUCTURE

State of the Art 90° Vertical Monoblock structure is made out of FG 300 Grade Cast Iron using nobake method providing stability and least distortion enabling heavy cuts and faster production. The Z-Axis is moving on a well spaced High Precision Linear Motion Guide ways, High Precision ball screws and pre-tensioned Double Nut assembly Lubricated through a Centralized & Programmable Lubrication System. Axis Motors are directly coupled to the ball screws through precision Bellow Coupling assembly for transmitting full power without transmission loss resulting optimum Tool Life.

3 POINT LEVELING

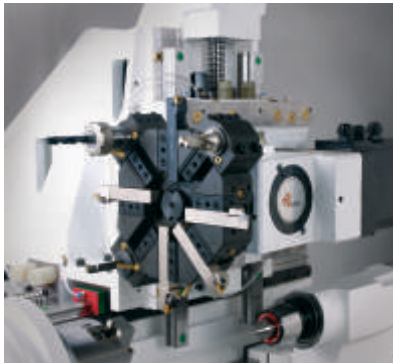


Structural design followed with the concept of 3PL provides it with higher base rigidity due to which twisting of bed is eliminated during actual working load conditions. This feature enables DX 150 to be installed and relocated quickly and easily.



HEAD STOCK & SPINDLE

Head Stock made out of closed grain FG 300 casting is provided with fins for better heat dissipation. The main Spindle is housed in a cartridge containing a match pair of three super precision angular contact bearings in front and a match pair of two super precision angular contact bearings at the rear, greased for life. The spindle is driven by toothed belt for optimum power transmission.



HIGH SPEED SERVO TOOL TURRET

DX 150 machine is equipped with high speed and high precision Bi-directional Servo Turret with hydraulic clamping system achieved by 3-piece hirth coupling. Tool change time is just 0.5 second.

TAIL STOCK

Tail Stock is made of closed grain FG 300 casting and the quill is hydraulically actuated through foot switch, provided with revolving center.



OPERATOR PANEL

The newly designed "Easy-to-Operate" operator panel of the machine is made considering operator friendliness and TPM concept.



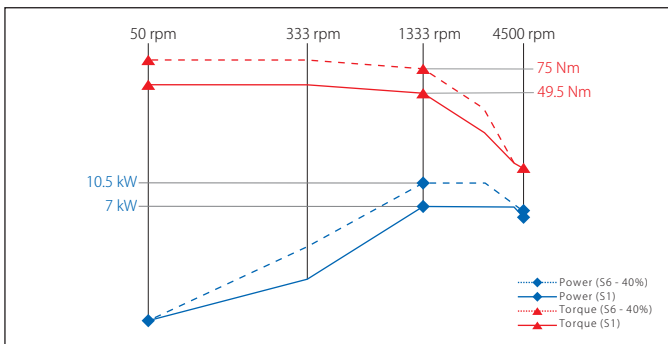
PRODUCTIVITY IMPROVING OPTIONS

DX 150 design gives flexibility by enabling user to interface various productivity improving options making it even more efficient to achieve different critical productivity targets. A combination of bar feeder, bar puller & part catcher can really give impetus for mass production type of application from long bars. Also for a user having variety of shafts from small to larger lengths can combine options of steady rest and giving better edge for batch type variety productions.

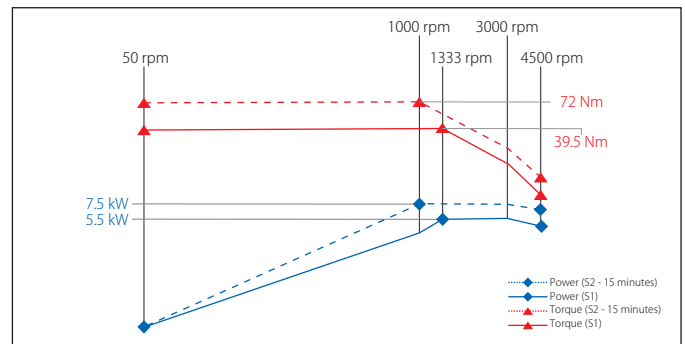


POWER TORQUE DIAGRAM

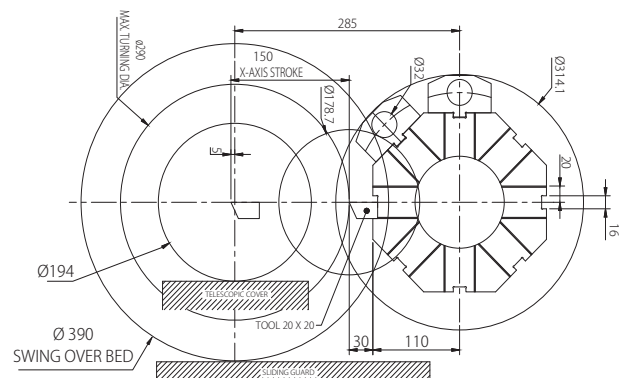
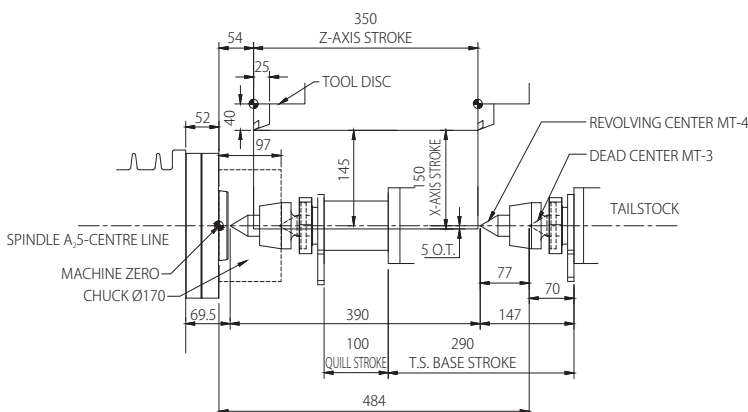
10.5 / 7 kW, 4500 rpm (Siemens)



7.5 / 5.5 kW, 4500 rpm (Fanuc)



MACHINING RANGE & INTERFERENCE DIAGRAM





TECHNICAL SPECIFICATION

DX 150

Capacity

Swing Over Bed	mm	375
Std. Turning Diameter	mm	150
Max. Turning Diameter	mm	250
Max. Turning Length	mm	350

Slides

X-Axis Travel (Cross)	mm	150
Z-Axis Travel (Longitudinal)	mm	350
Rapid Feed (X & Z Axis)	m/min	24

Main Spindle

Spindle Motor Power - Fanuc	kW	7.5 / 5.5
Spindle Motor Power - Siemens	kW	10.5 / 7
Spindle Bore Dia.	mm	50
Spindle Nose		A ₂ 5
Max. Bar Capacity	mm	38
Spindle Speed Range	rpm	50-4500

Turret (Servo)

No. of Stations		8
Max Boring Bar Diameter	mm	32
Tool Size	mm	20 x 20

Tailstock

Quill Diameter	mm	75
Quill Stroke	mm	100
Thrust (Adjustable)	Kgf (Max.)	300

Accuracy (as per VDI/DGQ 3441)

Positioning Uncertainty (P)	mm	0.007
Repeatability (Ps Medium)	mm	0.005

Other Data

Weight (Approx.)	Kg	3000
Dimension (Approx.) :		
Length	mm	1950
Width	mm	1375
Height	mm	1950

*Max. Turning Length Depends upon Work Holding Devices, Tooling and Job.

Note : • All above information is subject to change arising out of continuous product improvement.
 • The description 'standard accessories / feature' conforms to its list; not the photo of machine shown in the catalogue.

CONTROLLER

The CNC System FANUC 0i TF or SIEMENS 828D Basic T offered for DX 150 machine.

STANDARD FEATURES

- AC Spindle Drive
- AC SERVO Digital Drive
- L. M. Guideways
- Hyd. Chucking
- 8 Station Bi-directional Servo Turret
- Auto & Manual Coolant System
- Centralised & Programmable Lubrication
- Laser Calibrated Axis for Highly Precise Positioning Accuracy and Repeatability
- Electricals with Quality Devices & Panel with Cooling System
- Tailstock with Hydraulic Quill

OTHER PRODUCTIVITY IMPROVING OPTIONS

- Chip Conveyor (Rear or Side)
- Bar Feeder
- Bar Puller
- Part Catcher
- Auto Door
- Automatic Tool Setting
- Hyd. Collet Chuck
- Live Quill (Built-in Revolving Center)
- Tool Life Management
- Manual Guide i (Fanuc)
- Easy SMS System (Siemens)
- Shopturn (Siemens)
- Fully Tooled up Solution to Meet Customer Needs

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ISO 9001 : 2008