

DX 100

CNC Chucker

Performance
Technology
Power
Accuracy





DX 100

Overview

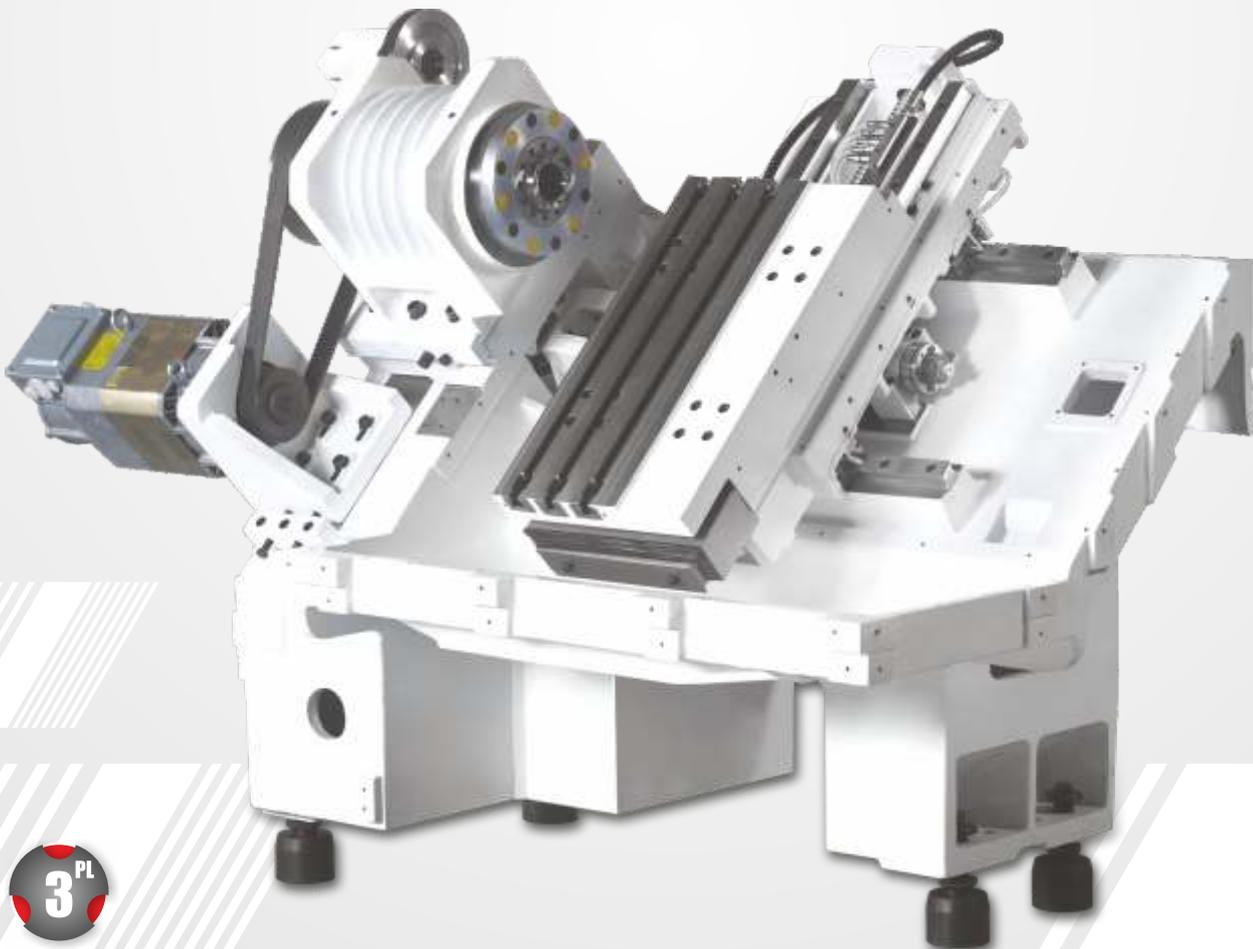
In the Family of DX Series, DX 100 is developed keeping in view of industry requirement of small disc - type precision components in huge quantities. The mono block structure of the machine is designed to keep the rigidity at higher dynamics. This machine is ideally suited for producing precision components in mass which could even multiply the productivity with the integration of options like bar feeder and gantry auto loading. Building base for TPM friendliness DX 100 has a linear tooling system enabling it to avoid time given for indexing.

Structure

Working on the principal to eliminate joints DX 100 is a slant bed machine with monoblock design that enables it to reduce vibrations even at higher parameters providing it better rigidity while machining and ability to absorb torsion. Such a design ensures highest precision, metal cutting capacity and better tool life. Integration of nut and bearing housing on X axis provides it with higher stiffness during movement of table.

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. Also this feature enables DX 100 to be installed and relocated quickly





Spindle

High precision spindle is housed in a cartridge with 3 super precision angular contact bearings in the front and 2 angular contact bearings at the rear end that enables very high precision and stiffness in both axial and radial direction. The bearings are grease lubricated for life.

Operator Panel

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

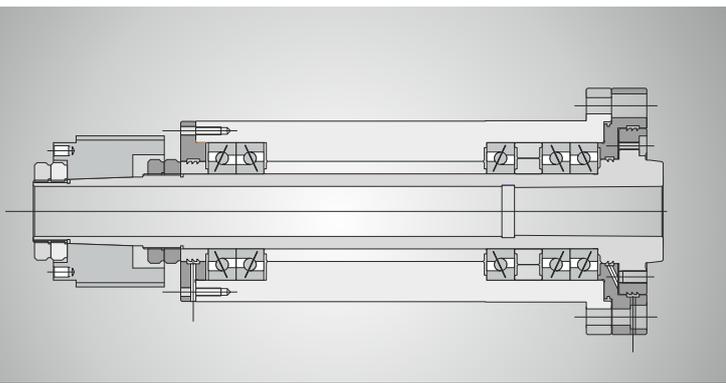
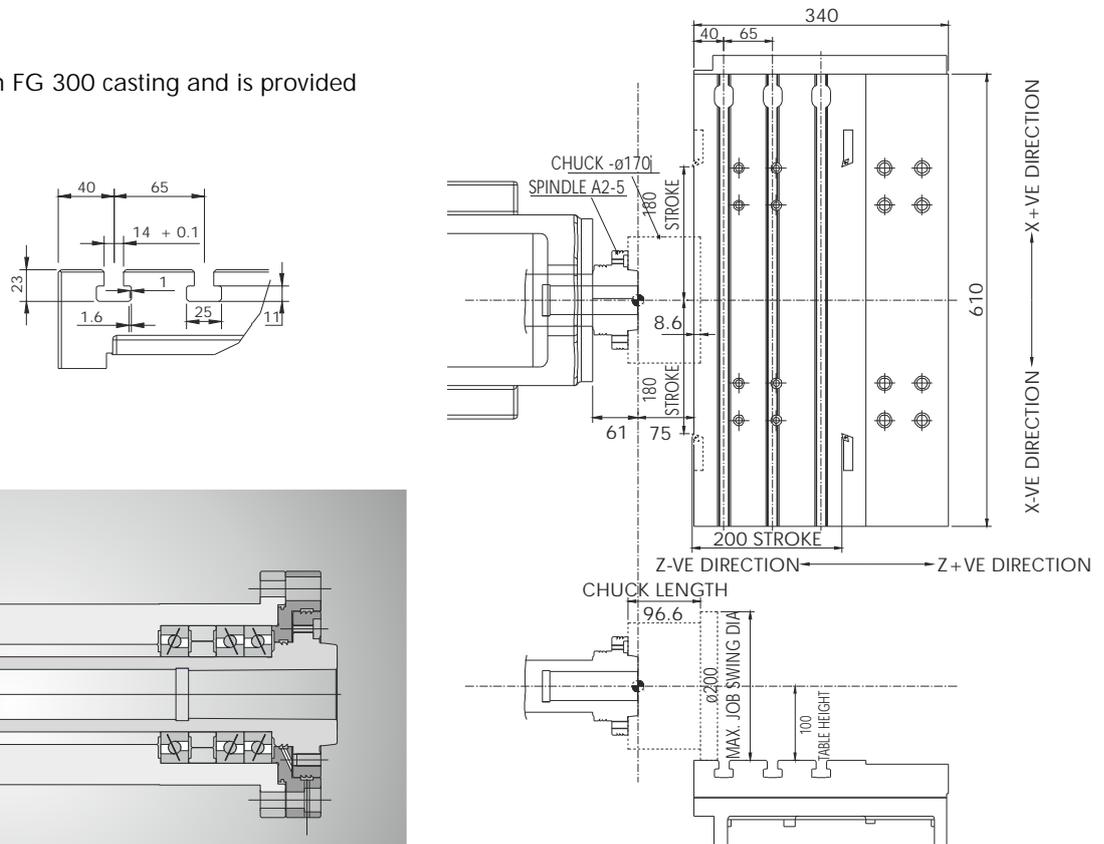
Head Stock

Made out of closed grain FG 300 casting and is provided

Gang Type Tooling

The concept of linear tooling is having a surface with T-slots on which 5 tool posts could be accommodated separately with minimum interference. However user can also accommodate more than 5 tools if job allows minimum interference. Linear toolings also performs a main role in overall cycle time as the tool change time is

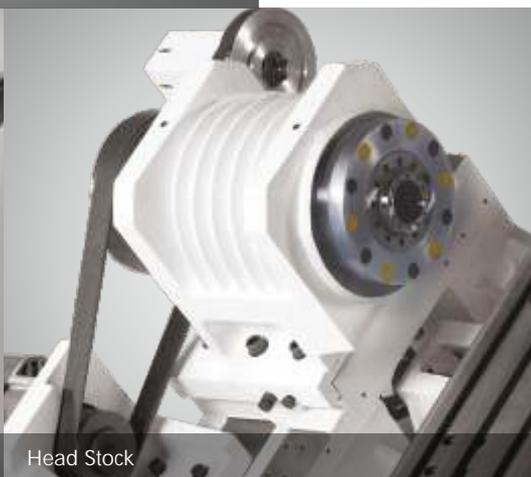
Interference Diagram for DX 100



Spindle



Operator Panel



Head Stock



Gang Type Tooling

Technical specifications

ISO : 9001



DX 100

Capacity

Max. swing over bed	mm	470
Maximum turning length	mm	200*
Max. job swing dia.	mm	200
Std. turning dia.	mm	100

Travels

Cross (X axis)	mm	360
Longitudinal (Z axis)	mm	200
Rapid feedrate (X & Z axes)	m/min	24

Spindle

Spindle motor power (30min./Cont)	kW	9,25 / 7
Spindle bore	mm	50
Spindle nose		A ₂ 5
Max bar capacity	mm	38
Spindle speed range	rpm	50 - 4.500
Full power speed range	rpm	1.333 - 3.666

Tooling (Gang Style)

No. of tools	Qty	4
Max. boring bar capacity	mm	40
Tool size (cross sectional)	mm	25 x 25

Accuracy (as per VDI/DGQ 3441)

Positioning uncertainty (P)	mm	0,007
Repeatability (Ps medium)	mm	0,005

Other Datas

Weight	kg	2.500
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Standard features

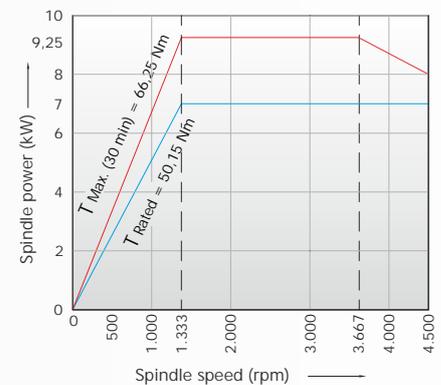
- A C spindle drive
- AC SERVO digital drive
- Guideways
- Hydraulic chucking
- Turning tool holders
- Auto & Manual coolant system
- Centralised & Programmable Lubrication
- Chip conveyor
- Laser calibrated axes for highly precise positioning

Possible options

- Bar feeder
- Bar puller
- Part catcher
- Hydraulic collet chuck
- Auto door
- Auto loader

* Depends on work holding device, tooling & workpiece

Power-Torque Diagram



Note - All above informations are subject to change arising out of continuous product improvement. The standard description, accessories and technical datas conforms to our pricelists, not to the photo of machines shown in the catalogue.



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