



ROTOR TURNING LATHE

Main parameter:

Max. Swing diameter over bed	4500 mm
Max. turning diameter over cross slide	3500 mm
Max. workpiece weight between centers	300 t
Max. workpiece length	24000 mm
Carriage bed width	2050 mm
Workpiece bed width	2050 mm
Chuck size(with 8pcs jaws)	3200mm
Max. chuck torque	300 KN.m
Chuck clamping diameter	Φ300 mm~Φ2200 mm
Max. cutting force of single toolpost	200 KN
Center angle	75°
Spindle speed(stepless)	0.3~60 r/min
Mechanical speed shifting	2shifts (stepless)
Spindle taper&size	1:4 Φ500 mm
Spindle front support diameter	1250 mm
X、 Z axes Pulse equivalency	0.01 mm
X axis rapid moving	4000 mm/min
Z axis rapid moving	4000 mm/min
X axis feeding range	1~4000 mm/min
Z axis feeding range	1~4000 mm/min
X axis travel	1500 mm
Z axis travel	24500
Tool plate travel	600 mm
Tailstock quill diameter	1250 mm
Tailstock quill travel	200 mm
Tailstock spindle taper & size	1:4 Φ500 mm
Tailstock rapid moving	2000 mm/min
Tailstock quill moving	50 mm/min
Main motor	300Kw
X、 Z axes servo motor	55 Nm 65Nm
Circumstance temperature	0°C~40°C
Relative humidity	≤90%
Total power	410 kw
Total weight (approx.)	520t

Main accuracy:

(1) Geometric accuracy	
Spindle radial runout (with tailstock)	0.025mm
Spindle axial pulsation	0.025mm
Z axis positioning accuracy	0.10mm
X axis positioning accuracy	0.04mm
Z axis repositioning accuracy	0.035mm
X axis repositioning accuracy	0.025mm
(2) Working accuracy	
Roundness	0.015mm
Cylindrical	0.030/300mm
Flatness	0.025/300mm
External finishing surface roughness	Ra3.2um

Main Features:

- Suitable for Turbine, Generators, ship-building industry etc.
- The bed include workpiece bed and carriage bed, with separate structure. Both the width of the two beds is 2050mm,
- Rack& Pinions are German made
- Hydraulic-system is Rexroth Brand
- Centralized coolant system
- Auto Chip conveyor
- Hydraulic powered Steady-rests
- Heidenhain Linear Scales
- CNC Controller upon customer's choice
- Turbine-blades Tip grinding and milling operation & attachments upon request
- Custom designed machines can be produced upon customers application