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DS28-O



HIGH SPEED HIGH PRECISION CNC LATHE

Z H E J I A N G K A I D A M A C H I N E T O O L C O . , L T D

Zhejiang Kaida Machine Tool Co., Ltd



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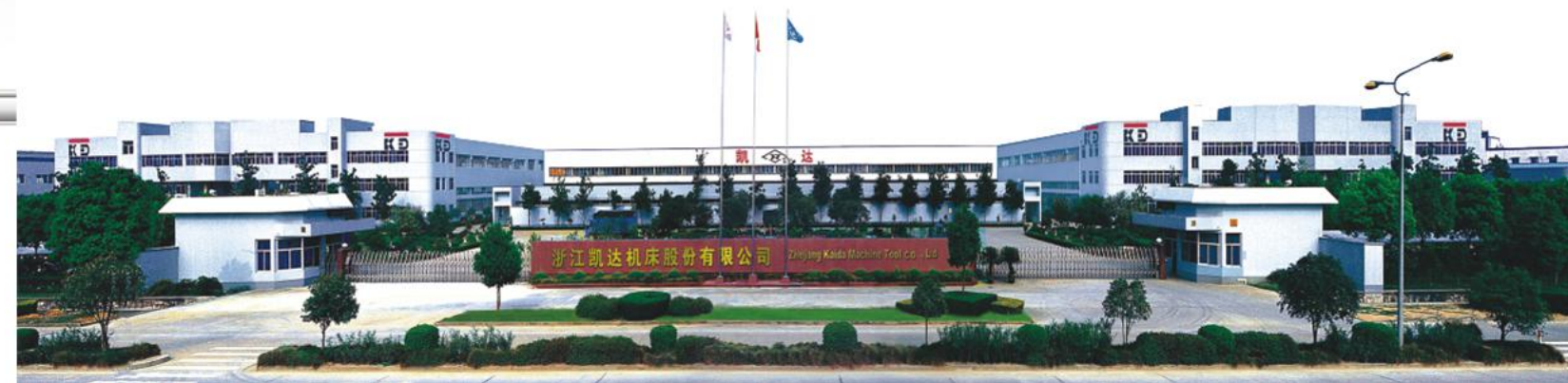
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◆ Technical specification:

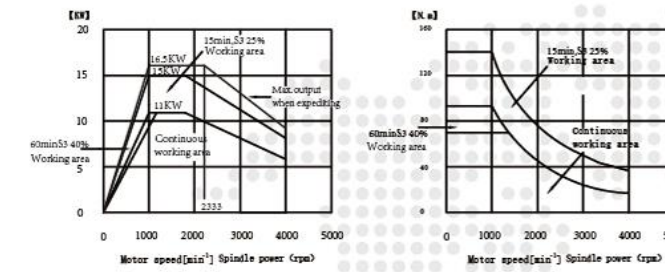
Items	DS28-O
Max. swing over bed	Φ520 mm
Max. cutting dia. for disc parts	Φ420 mm
Max. cutting dia. for axle parts	Φ250 mm
Max. cutting length for axle parts	500 mm
Max. travel of X-axis	255 mm
Max. travel of Z-axis	600 mm
Spindle bore	Φ65 mm/Φ63mm (Sleeve spindle)
Spindle nose	A2-6
Spindle taper	Morse No. 6/Φ70 Metric 1: 2 (Sleeve spindle)
Spindle speed	4000 rpm/5000 rpm (Sleeve spindle)
Hydraulic chuck size	8"
Rapid feed speed of X/Z	20/24 m/min
Linear guide ways wide of X/Y/Z	35/45 mm
Center distance of Z lead screws	370mm
Diameter and screw pitch of X lead screws	Φ32×10 mm
Diameter and screw pitch of Z lead screws	Φ40×10 mm
Tool post stations	12T
Outside dia. cutting tool shank	25×25 mm
Max. inner dia. cutting tool shank	Φ40 mm
External dia. of tailstock sleeve	Φ80 mm
Max. travel of tailstock sleeve	120 mm
Tailstock sleeve taper	Morse No. 4
Power of main motor	11/15 kW
Bed structure	45° slant bed
Positioning accuracy of X/Z	≤0.010/0.012 mm
Repeated positioning accuracy of X/Z	≤0.003/0.005 mm
Power of coolant pump	180 W
Capacity of lubrication pump	2L
Overall dimensions(LxWxH)	2880×1850×2000 mm
Net weight	4300 kg

The descriptions, illustrations and specifications given herein are subject to alteration without notice and thus without any obligation.

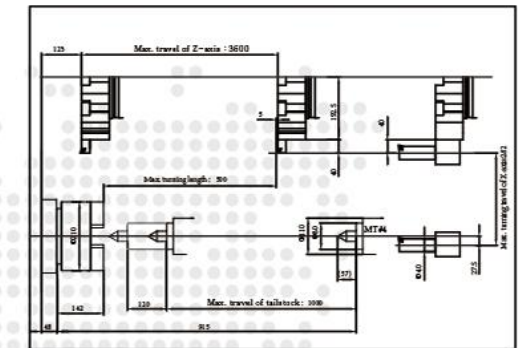
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◆ Main motor output performance:

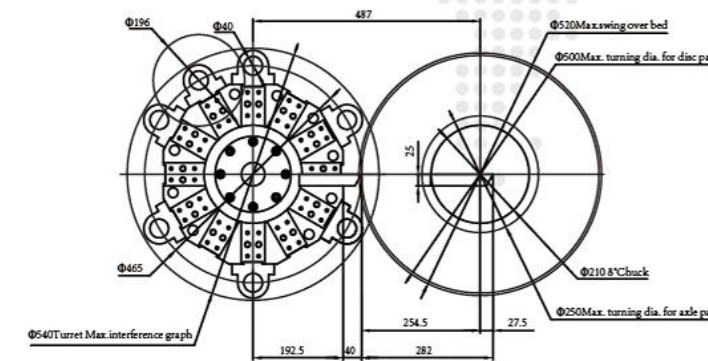
Main motor: β II 2/10000 (11/15kW)



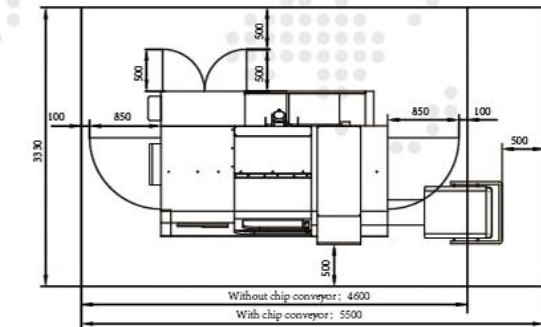
◆ Turning range graph:



◆ Tool interference graph:



◆ Machine floor area:



◆ Rough machining:

Cutting condition	
Spindle speed	700rpm
Cutting speed	220m/min
Cutting depth	5mm
Feed speed	105mm/min (0.15ipr)
Material	45#Steel
External diameter	Φ100mm
Main motor power	7.5KW

◆ Precision machining:

Cutting condition	
Tool	Hard alloy tools
Material	Aluminum
Cutting speed	300m/min
Cutting depth	0.2mm
Spindle speed	1000rpm
Feed speed	80mm/min(0.08ipr)
External diameter	Φ100mm
Degree of finish	≤0.8 Ar

◆ Bed:

- a. Aseismatic capability, high strength and good quality HT300 cast iron.
- b. 45° slant bed structure, high rigidity and high stability of box castings, smooth chip removal.

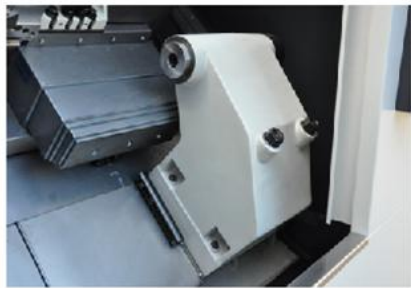
◆ Spindle:

- a. Main motor and spindle driven through wide-angle belt.
- b. Adopting Taiwan 4000rpm sleeve spindle with Max. Torque 112.5Nm.
- c. Taiwan 5000rpm sleeve spindle with Max. Torque 114Nm is optional.



◆ Tailstock:

Hydraulic tailstock or programmable servo tailstock is optional.



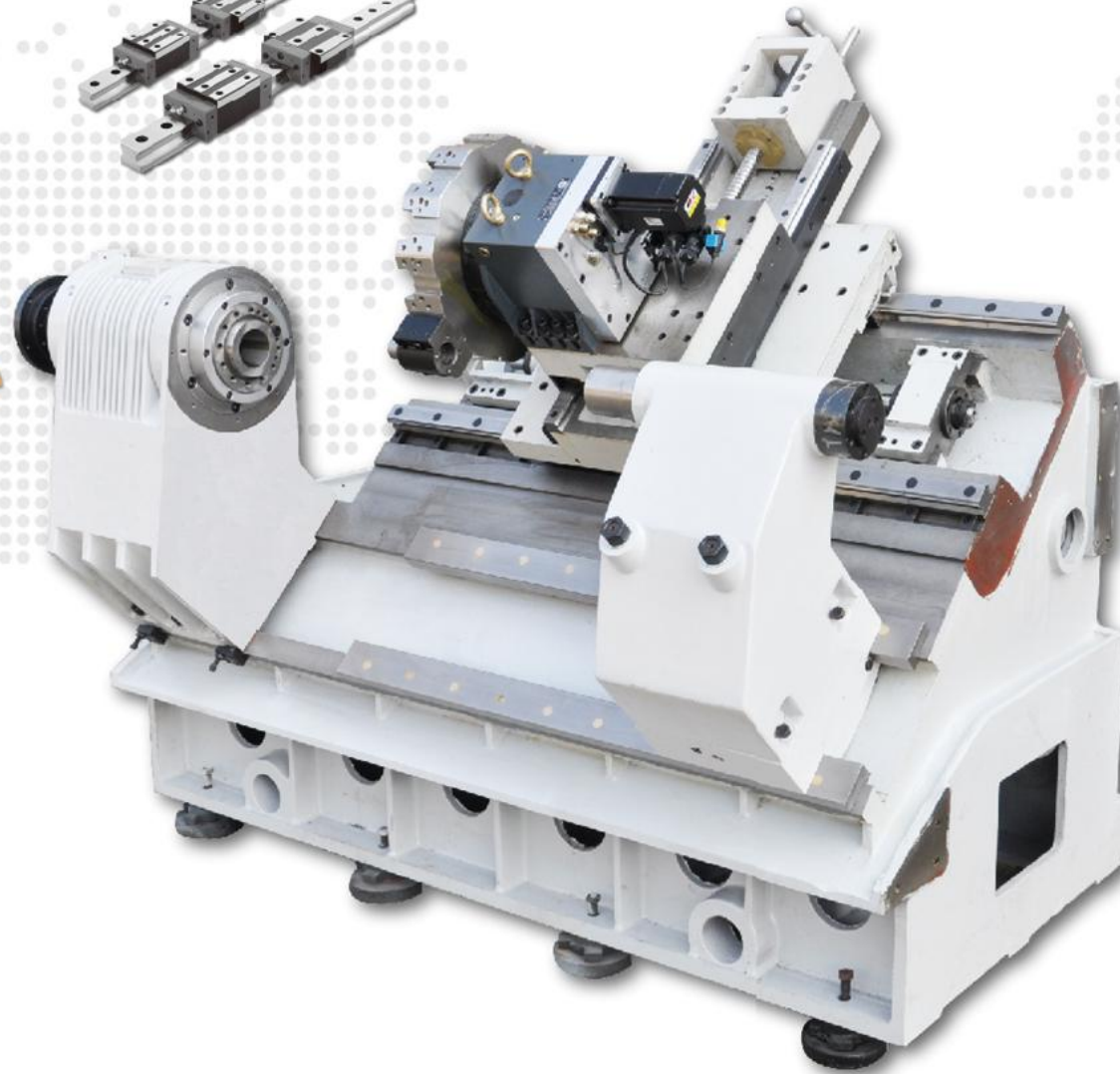
◆ Ball screws:

- a. Adopting Taiwan C3 grade precision ball screws, X-direction screw diameter 32mm, pitch 10mm, Z-direction screw diameter 40mm, pitch 12mm.
- b. Pre-extended structure to reduce the heat-deformation and improve the precision and rigidity.
- c. Adopting Japan NSK special screws angular contact ball bearing group.



◆ Linear guide ways:

Taiwan P grade high-precision ball linear guide ways, 35mm width of X-direction guide ways, 45mm width of Z-direction guide ways.



◆ Chuck:

- a. Adopting Taiwan AUTOGRIP or CHANDOX 8" Closed hydraulic chuck.
- b. Hollow hydraulic chuck is optional.



◆ Turret:

Adopting Taiwan 12-station hydraulic turret, servo turret or live turning turret is optional.



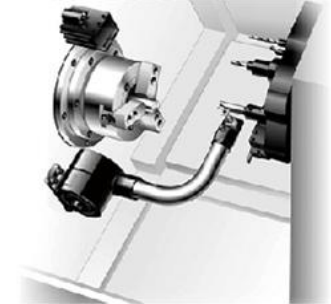
◆ System:

The standard configuration is FANUC system, and SIMENS, FAGOR, MITSUBISHI, GSK are optional.



◆ Measurement:

- a. Grating ruler is optional for X/Y/Z.
- b. Tools and workpiece measuring instruments are optional.



◆ Automatic loading and unloading:

Truss type or joint type manipulator is optional.



◆ Clamping:

- a. Hydraulic center rest is optional.
- b. Automatic bar feeder is optional.



◆ Electrical cabinet:

- a. The main electrical components apply from SIMENS or SCHNEIDER.
- b. Full sealed electrical cabinet.
- c. Air conditioner to ensure all the electrical components and drives working at a reasonable temperature.

