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DM852
DM1052



VERTICAL MACHINING CENTER

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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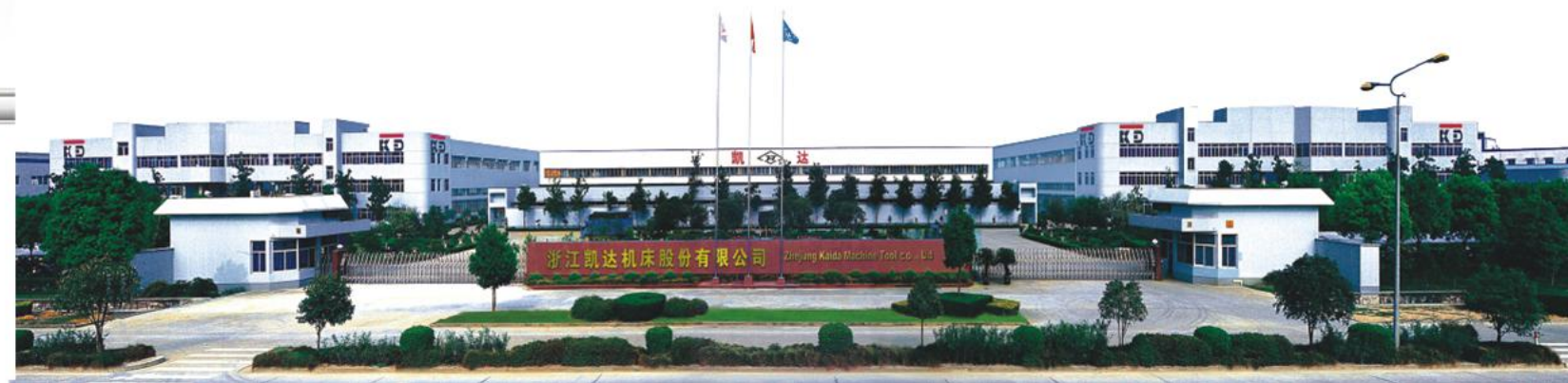
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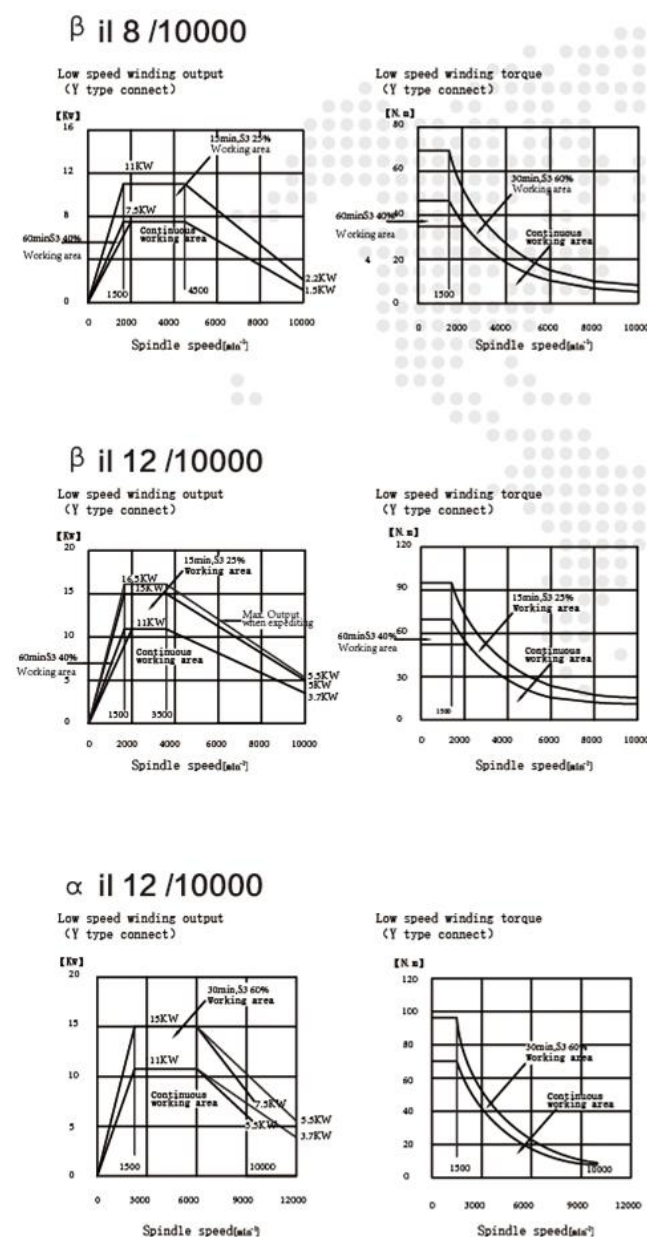
◆ Technical specification:

Items	DM852	DM1052
X travel	800 mm	1000 mm
Y travel	520 mm	
Z travel	520 mm	
Distance between spindle center and column guide ways	550 mm	
Distance between spindle end and table	150-670 mm	
Table size	950×510 mm	1130×510 mm
T-slot(width×number-space)	18×5-100 mm	
Max.table load	800 kg	
Taper bore of spindle	BT40	
Spindle speed	10000 rpm(FANUC MAIN MOTOR)	
Main motor power	11/15 kW	
Motor power/torque of X/Y/Z	3/3/3 kW (20 Nm)	
Guide ways number of X/Y/Z	3/3/2	
Rapid speed of X/Y	30 m/min	
Rapid speed of Z	30 m/min	
Guide ways of X/Y/Z	P3-grade precision linear ways	
Guide ways wide of X/Y/Z	35 mm	
The Max. distance between two outer linear guide ways for X/Y/Z axis.	461/923/497 mm	
Diameter and screw pitch of X/Y/Z lead screw	Φ40×12	
Bearing number of X/Y/Z lead screw	7/7/7	
Connect way of X/Y/Z motor	Direct connect	
Positional accuracy of X/Y/Z	≤0.010 mm	
Repeat positional accuracy of X/Y/Z	≤0.004 mm	
Tool capacity of ATC	24T (arm type)	
Tool change time (tool to tool)	1.8 S	
Pneumatic boosting cylinder	3.5T	
Power of coolant pump	550 W	
Capacity of lubricant pump	2L	
Capacity of coolant tank	180L	
Overall dimensions(LxWxH) with auto chip conveyor	3750×2300×2700 mm	4300×2300×2700 mm
Net weight	5150 kg	5480 kg

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

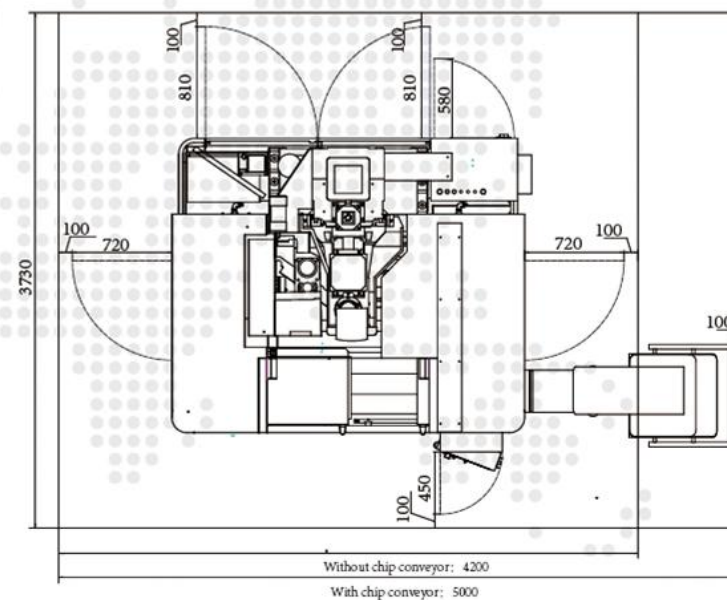
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◆ Spindle power-torque graph:

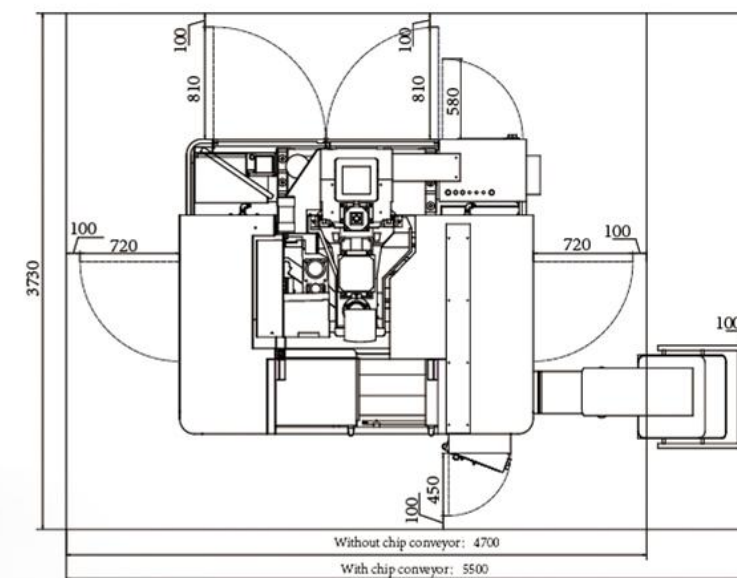


◆ Machine floor area:

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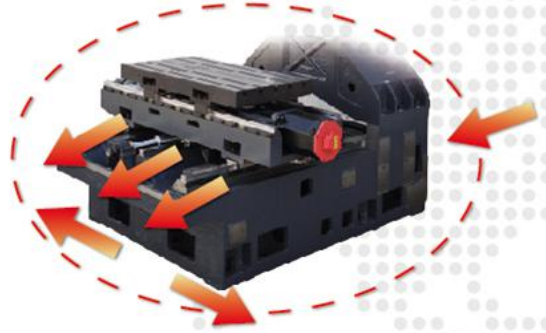


◆ Cutting performance:

Cutting condition	Face milling	Elevation milling	Drilling	Tapping
material	Steel (45#)	Steel (45#)	Steel (45#)	Steel (45#)
tool	Φ80 Face milling cutter	Φ12 elevation milling cutter	Φ35 U type drill	M24x3 Screw tap
Spindle speed r/min	1200	3500	1200	80
Feed speed mm/min	300	2000	100	240
Cutting depth mm	3	7	-	-
Degree of finish Ra	≤0.8	≤1.6	≤1.6	-

◆ Base:

- a. Aseismic capability, high strength and good quality HT300 cast iron.
- b. Wide base and Y-type column structure, the Max. distance between two outer linear guides for Y-axis is 888mm.
- c. Leak-proof flume equipped around base.



◆ Conveyor:

- a. Chain type or spiral type auto chip conveyor is optional.
- b. Oil water separator is optional



◆ Spindle:

- a. Taiwan BT40 spindle driven by synchronous belt, the speed of spindle is 10000RPM.
- b. 12000RPM spindle, direct connection spindle, high pressure CTS, oil cooling are optional.



◆ CNC controller:

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



◆ Linear guide ways:

- a. Taiwan P grade high-precision ball linear guide ways.
- b. Three sets of precision linear guide ways with five sliding blocks for X/Y axis, two sets of precision linear guides with six sliding blocks for Z-axis.



◆ Ball screws:

- a. Taiwan C3 grade precision twin nut screws used for X/Y/Z axes.
- b. Pre-extended structure to reduce the heat-deformation and improve the precision and rigidity.
- c. 4 pcs of Japan NSK angular contact precision ball bearing equipped on ball screws driving end, and 3 pcs of Japan NSK angular contact precision ball bearing equipped on the other end.



◆ 4th/5th axis:

- a. Fourth axis is optional (minimum division unit: 0.001°, Re-positioning accuracy: 4")
- b. Fifth axis is optional (minimum division unit: 0.001°, Re-positioning accuracy: 4")



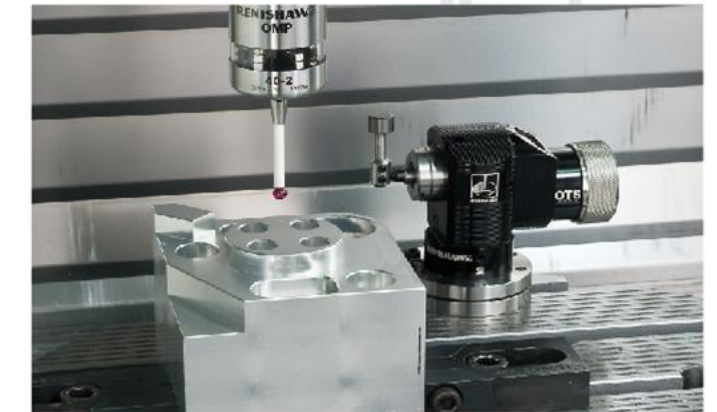
◆ ATC:

- a. Taiwan's well-known ATC with 24 tools capacity.
- b. Tool change time up to 1.8s (tool to tool).



◆ Measurement:

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



◆ Electrical cabinet:

- a. The main electrical components from SIMENS or SCHNEIDER.
- b. Full sealed electrical cabinet.
- c. Air conditioner ensures all the electrical components and drives working at a reasonable temperature.
- d. Voltage stabilizer is optional.

