DNM 350 / 5AX
5-axis Vertical Machining Center
Main Spindle

The DNM 350/5AX is equipped with a High-rigid, High-speed spindle. Designed for a wide range of applications, including heavy cutting and difficult workpiece shapes.

Spindle Speed

Max. Spindle Speed 12000 r/min
Spindle Motor Power 15/11 kW (14.8/20.1 Hp)

Spindle head cooling system

The cooler keeps the cooling oil at a constant temperature. The oil circulates around the spindle and bearings to minimize thermal deformation of the spindle.

Dual contact system (Big plus)

The dual contact system offers simultaneous contact between the machine spindle face and toolholder flange face.

Spindle power torque diagram

Max. spindle speed 12000 r/min
Spindle motor power 15/11 kW (20.1/14.8 Hp)
Machine Structure

The DNM 350/5AX provides High-precision machining using a stable structure created by FEM analysis.

High Rigidity Body

This machine provides High precision and speed by High-stiffness Roller Type LMG, Rigid coupling and ball screw nut cooling system.

High-Strength Roller LMG

Rotary Table

High-precision and high-stiffness

- Applied Axial Radial Roller Cross bearing with High-precision and high-stiffness
- Applied double worm & pinion gear for reduced backlash
- Applied High-precision rotary encoders (A/C axis)

External Dimensions

Top View

Front View

Table Dimension

Unit: mm (inch)
Machine Specifications

<table>
<thead>
<tr>
<th>Features</th>
<th>Unit</th>
<th>Fanuc i series (Simultaneous 4+1 axis)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travels</td>
<td>X/Y/Z axis</td>
<td>mm (inch)</td>
</tr>
<tr>
<td>Feedrate</td>
<td>X/Y/Z axis</td>
<td>m/min (ipm)</td>
</tr>
<tr>
<td>Table</td>
<td>Table size</td>
<td>mm (inch)</td>
</tr>
<tr>
<td>Workpiece</td>
<td>Max. workpiece swing (dia. x height)</td>
<td>mm (inch)</td>
</tr>
</tbody>
</table>

Main Spindle
- Spindle taper: 40B-7T / CAT / DIN 40
- Max. spindle speed: 2400 rpm
- Max. spindle torque: 18.7 Nm

ATC
- Tool storage capacity: 400 tools
- No. of tool offsets: 128 sets
- Tool nose radius compensation: G40, G41, G42

NC controller
- Display unit: inch 10.4"
- Positioning (G00) / Linear interpolation (G01): 4 axes
- Linear interpolation by radius programming: G02, G03

Tool Function
- Spindle orientation: 55 digits
- Spindle speed command: 10 - 150%

Tool Function Programmation & Editing Function
- Background editing: G61, G67, G68, G69
- Machine coordinate system: 652 / 653
- Maximum commandable value: 99,999,999 mm
- User-selected programs: 400 ea
- Part program storage: 128mb
- Rapid tapping: 68A, 674
- Work coordinate system: 654 - 659

Other functions
- 3rd / 4th reference return: G54.1 P1 - 48 (48 pairs)
- Coordinate rotation: G64 / G65
- Polar coordinate command: G61 / G62
- Programmable data input: G62 / G66
- Additional work coordinate system: G54.1
- Automatic return: G68 / G69
- A/C axis encoder: G54 / G56
- Chip conveyor and chip bucket: G68 / G69
- Spindle Thermal compensation: G64 / G65

Optional Functions
- Linear scale: X, Y, Z axis
- Coolant tank & chip pan: G70
- Door interlock: G77 / G78
- Flood coolant system: G73 / G74
- Full enclosure Splash guard: G72 / G73
- Installation parts: G71 / G71

Special Features
- Air gun: G51.1
- Assembly & operation tools: G51.2
- Auto tool measurement (TS27R):
- Chip conveyor and chip bucket:
- Spindle head cooling:
- Spindle air curtain:
- Spindle head cooling system:
- Work light:

Optional Features
- Linear scale (X, Y, Z axis):
- Coolant tank & chip pan:
- Door interlock:
- Flood coolant system:
- Full enclosure Splash guard:
- Installation parts:
- Portable MPG
- Screw controller:
- Signal tower (yellow, red, green):
- Spindle air curtain:
- Spindle head cooling system:
- Work light:

Doosan Fanuc i series
- 600 / 655 / 500 (23.6 / 25.6 / 19.7)
- ø 400 x 335 (ø 15.7 x 13.2)

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