

Machine Name : 5 Axis Machining Center

Brand : DAHLIH

Machine Model : DMX-320

Stock No. : 813271

Ex-factory Date : 2015



Main Technical Parameters:

Worktable

Worktable size: Ø320 mm

T-slot: 12H7 × 4

Maximum worktable load: 150 kg

Axis Travel

Three-axis travel (X/Y/Z): 600 × 550 × 500 mm

Distance from spindle nose to worktable: 50-500 mm

Guideway

X/Y/Z axes: Linear guideways

Feed Rate

Rapid traverse rate (X/Y/Z axes): 40 / 40 / 30 m/min

Cutting feed rate: 18,000 mm/min

Minimum feed increment: 0.001 mm

Spindle

Drive type: Direct drive

Spindle motor: 7.5 kW (10 HP) / 5.5 kW (7.5 HP)

Spindle taper: NT40

Spindle speed: 10,000 rpm

Spindle bearing diameter: Ø70 mm

Maximum torque: 47 N·m

Cooling/Lubrication: Oil cooling / grease lubrication

Automatic Tool Changer (ATC)

Tool magazine capacity: 24 tools

Tool holder: BT40

Pull stud angle: 45°

Maximum tool weight: 7 kg

Maximum tool length: 265 mm

Maximum tool diameter: Ø95 mm

Maximum diameter with adjacent pockets empty: Ø185 mm

Tool selection method: Random selection

Servo Motors

X/Y/Z-axis servo motors: 4 kW (5.3 HP)

Fourth Axis (A/C Axis)

Maximum workpiece size: Ø320 x 280 mm

Torque: 25 kg-m

Rotation range: 360°

Maximum speed: 25 rpm

Braking method: Hydraulic expansion brake

Fifth Axis (B Axis)

Maximum workpiece size: Ø320 x 280 mm

Torque: 25 kg-m

Rotation range: +30° to -120°

Maximum speed: 25 rpm

Braking method: Hydraulic expansion brake

Installation Requirements

Power requirement: 36 kVA

Air pressure: 6 kg/cm²

Cutting fluid pump: 3/4 HP

Cutting fluid tank capacity: 280 L

Machine Weight

Net weight: 7000 kg (approx. 7 tons)



