

Machine Name : Gantry Machining Center

Brand : APEC

Machine Model : GM3250-5L

Stock No. : 69149

Ex-factory Date : 2020



Main Technical Parameters:

X-axis travel (X-axis) : 5,000 mm

Y-axis travel (Y-axis) : 3,200 mm

Z-axis travel (Z-axis) : 1,200 mm

Distance from spindle nose to Worktable surface: 60-1,260 mm

2. Worktable Specifications (Worktable

Worktable size (length × width) : 5,000 × 3,000 mm

Worktable load: 8 T/m²

Worktable T-slot (slot width × spacing) : 28 × 200 mm

Keyway at the center of Worktable (one each at the X and Y centers) : 28 × 15 mm

3. Feed spindle (Traverse & Spindle)

Rapid feed rate: X/Y/Z = 60 m/min

spindle taper: HSK100A

Spindle speed: 15,000 rpm

spindle power (S1/S6) : 25/30 kW

spindle torque (S1/S6) : 119/143 Nm

4. 5 axes head specification (2-axis milling head)

Maximum rotational speed (B/C axis) : B=60 rpm, C=60 rpm

Maximum rotational torque (S1/S6) : B= 1,192/1,980 Nm, C= 1,050/1,740 Nm

Locking torque: B=4,000 Nm, C=4,000 Nm

Rotation Angle: B=±120°, C=±360°

Rotary Positioning repeat precision: < 0.006/2M

5. Automatic Tool Changer (ATC

Tool holder type: HSK100A

Tool: 20

Maximum tools length: 300mm

Maximum tool diameter - adjacent Tool: Ø 150mm

Maximum tool diameter - without adjacent Tool: Ø 180mm

Maximum tools weight: 15 Kg

6. precision

Positioning precision (VDI/DGQ3441) : X/Y=0.025, Y=0.012, Z=0.010 mm

Repeatability precision (VDI/DGQ3441) : X/Y=0.012, Y=0.008, Z=0.008 mm

Roundness Test (Ball-Bar Test) : XY=0.015, XZ=0.025, YZ=0.025 mm

spindle nose 5-axis circle measurement precision (5-axis TCPM) : $\pm 0.03\text{mm}$



