

# **PSG T 01 VERTICAL MACHINING CENTRE**



#### **SALIENT FEATURES**

 Compact and aesthetically designed
3 Axis CNC System
Anti-friction, pre-loaded, high precision spindle bearings . Slide motion on LM guide ways with precision ball screws . AC servo spindle . AC servo axis drives . 6 tools ATC . BT 30 Spindle taper . Coolant system . Centralised lubrication system . Suitable to Train Students of Engineering / Polytechnic / Industrial Training Institute . To Train Industry Workmen and also for small components production work

Suitable for the Production of variety of Light milling, Drilling & Boring parts

A machine for today's standard of precision, surface finish & production

#### PSG VMC T01

#### **TECHNICAL DATA**

#### CAPACITIES

X - axis travel (Longitudinal) 250 mm Y - axis travel (Cross) 160 mm \_ Z - axis travel (Vertical) 250 mm AC servo Axis drive

#### SPINDLE

BT 30 Spindle taper Draw bar Tool holder clamping Spindle speed Infinitely variable 50 - 2500 rpm Spindle speed range

### TABLE

500 x 180 mm Working surface T - slot size 10 mm 3 No. of T - slots 1010 mm Height above from floor SPINDLE WORKING AREA

#### Spindle nose to table top

Spindle to column 200 mm POSITIONING SPEED 0 - 1000 mm/min

120 mm

4 kg

15 kg

7 sec

150 mm

#### Feedrate (X,Y,Z)

1000 mm/min Rapid traverse rate AUTOMATIC TOOL CHANGER (ATC) 6 Tools Magazine capacity Bi-directional tool selection Shortest path

Max. Tool length Tool change time (Adjacent pocket)

Max. Total weight of all tools

Max. Tool weight

#### **POWER**

Power of spindle drive motor 0.75 kW 0.1 kW Power of coolant pump motor

#### **ACCURACIES**

± 0.01 mm Positioning Accuracy ± 0.01 mm Repeatability

#### **OVERALL DIMENSIONS & WEIGHT**

Floor area of machine 2000 x 1250 mm Weight of machine (Approx.) 1000 kg

#### STANDARD ACCESSORIES

Coolant system & Chip tray Machine lamp Machine splash guard Service tool kit Operation, Programming and spare parts manual

#### OPTIONAL ACCESSORIES

BT 30 Tool holders Voltage stabilizer

## **CNC SYSTEM - FANUC**

Built-in one touch tuning CNC via Embedded Ethernet / Memory card data server function

Wrong operation prevention function CNC alarm guidance function Online ladder editing Self diagnostics

STANDARD CONTROL FEATURES

Built-in calculator Manual data input Simultaneously controllable 4 axis Colour graphics

Standard canned cycles Background programming Automatic chamfering and corner rounding Program folder management

Memory card editing Tool nose radius compensation Pitch error compensation Backlash error compensation

3D Simulation 0.1 Micron Accuracy Tool Life Management Setup guidance function Main menu screen for easy navigation Al contour control 1 Interpolation type pitch error compensation

Dynamic graphics display Manual handle retrace One touch macro call Function Cs Contouring control

Fanuc Picture executer for custom screen development Custom software size 6MB

CAP functions

Smart rigid tapping Cycle time reduction + Smart overlap Smart thermal control Smart backlash compensation

Smart spindle load meter Smart spindle belt cut detection function

Specifications are subject to improvements

Manufactured by PSG Industrial Institute, a manufacturer with 7 decades of tradition. This Machining Center is robustly built. It is ideally suited for general engineering and training of students. After sales service of PSG

Manufactured by

Marketed by



is efficient and prompt.

PSG INDUSTRIAL INSTITUTE

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