

Super proLIGHT 1000

SPECIFICATIONS

Standard Features

Vibration-dampening polymer composite machine base

Built-in chip tray

Gortite® way covers

Precision-ground table

VMC-style 3/8 - 16 matrix (1" oc)

Linear motion system:

Zero backlash ball screws

3/4" (19.05 mm) precision-ground and hardened shaft

Wipers on all slides

Low-friction linear bearings

Easily accessible oil ports

Tooling/Accessories

ISO 20 tool holder

1/4" (6.350 mm) High-Speed Steel, 4-flute, center-cutting end mill with 3/8" (9.5 mm) shank

Set of hold-down clamps

CNCBase control software

Axis Travel

X Axis 12" (305 mm)

X Axis w/ATC 8" (203 mm)

Y Axis 6" (152 mm)

Z Axis 9" (229 mm)

Open Height 9.5" (241 mm)

w/ATC 8" (203 mm)

Spindle

Drive Motor 1 hp (746 W)

Motor Type DC Permanent Magnet

Speed Range 0 - 5,000 RPM

Spindle Nose ISO 20

Collet Capacity up to 0.5" (13 mm)

Throat 6.25" (159 mm)

Accuracy

Ballscrew 0.001"/ft. (0.025 mm/300 mm)

Repeatability 0.00025" (0.00635 mm)

Resolution 0.000125" (0.003175 mm)

Axis Drive Motors

Linear Feed Rate 0.1 - 75 ipm (2 - 1905 mm/min)

Circular Feed Rate 0.1 - 75 ipm (2 - 1905 mm/min)

X,Y Rapid Feed 75 ipm (1905 mm/min)

Z Rapid Feed 75 ipm (1905 mm/min)

Stepper Motors 150 oz. in. (105 Ncm), 200 step/rev

System Interfaces

PCI bus to host computer

Robotic interface with optical I/O display

Optically isolated inputs & outputs

Safety Features

Lexan safety shield with interlock switch

Emergency Stop switch on front panel

Emergency Stop on keyboard

End of travel limit switches and stops on each axis

Keylock on electronic control box

Interfaces

Controller Box

8 Illuminated robotic inputs/outputs

CNCBase software

Programming

Standard Fanuc compatible EIA RS274-D

G & M codes

Subprograms and subroutines

3D solid graphic tool path verification

Optional Fanuc 21 control simulator

Work Area

Table Size 19.5" x 6.25" (495 mm x 159 mm)

Load Capacity 100 lbs. (45 kg)

Threaded matrix 3/8" - 16, 1" on center

Power Requirements

United States 120 VAC (+5%/-10%), 50-60 Hz, 15A

International 240 VAC (+5%/-10%), 50-60 Hz, 8A

Dimensions

Width 26" (660 mm)

Depth 32.5" (825 mm)

Height 32.5" (825 mm)

Weight (approximate)

Machine 365 lbs. (166 kg)

Shipping 445 lbs. (202 kg)

Accessories 35 lbs. (13 kg)

Computer System Requirements

Pentium IV personal computer

Windows® 2000/XP

256 MB RAM minimum

40 MB available HD space

One available PCI slot

CD-ROM

VGA graphics and monitor

Mouse

Options

4 station ATC

Rapid-change tooling

4th axis Rotary table

ISO tool holder package

ISO tool holders

Vise with hold down set

Machinist kit

Fanuc™ simulation

CNCMotion simulation software

LearnMate curriculum