

Super proLIGHT 1000

Vertical Machining Center



Super proLIGHT 1000 with optional 4-station tool changer and 4th axis.

The newly engineered Super proLIGHT 1000

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

With over 13,000 CNC machines installed in industry and education worldwide, intelitek has emerged as the leader in tabletop and benchtop CNC Machining.

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Super proLIGHT 1000

Specifications*

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)

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

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 - 100 ipm (2 - 2540 mm/min)
Circular Feed Rate	0.1 - 75 ipm (2 - 1905 mm/min)
X,Y Rapid Feed	100 ipm (2540 mm/min)
Z Rapid Feed	100 ipm (2540 mm/min)
Stepper Motors	150 oz. in. (105 Ncm), 200 step/rev

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)

System Interfaces

PCI bus to host computer
Robotic interface with optical I/O display
Optically isolated inputs & outputs

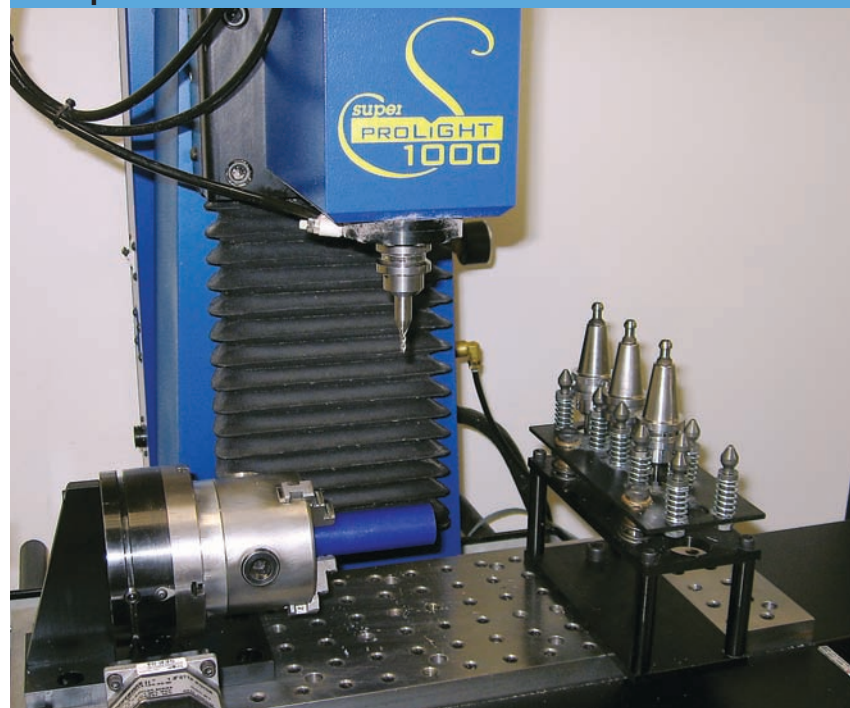
Safety Features

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

* specifications subject to change

Super proLIGHT 1000 features

optional 4th axis
optional 4-station ATC



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

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

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