

# 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" on center)

### Linear motion system:

- Zero backlash ball screws
- 3/4" (19.05 mm) precision-ground and hardened shaft
- Wipers on all slides
- Low-friction ceramic linear bearings
- Easily accessible lubrication 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 - 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

### Power Requirements

USA:	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
Illuminated robotic interface with 8 inputs, 8 outputs
Illuminated spindle power indicator
Illuminated axis power indicator

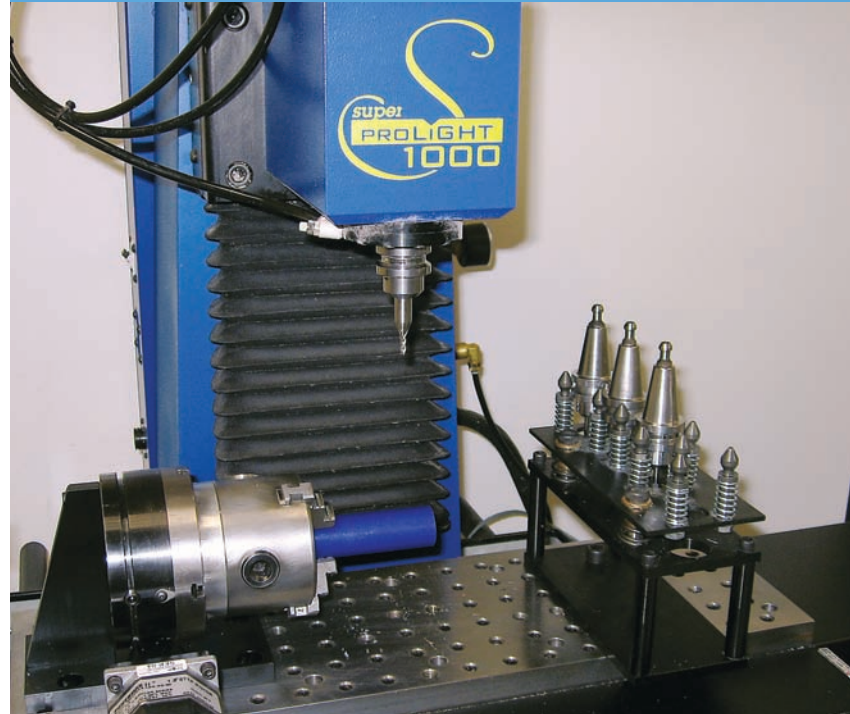
### Safety Features

Lexan safety shield with interlock switch
Emergency Stop switch on front panel and on keyboard
End of travel limit switches and stops on each axis
Illuminated axis limit switch LED indicator
Keylock on electronic control box

Partners:



## Super proLIGHT 1000 features



Shown with optional 4th axis and 4-station ATC

### 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/Vista
- 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
- Pneumatic vise
- Machinist kit
- Machining bench with drawers
- Fanuc™ simulation
- CNC Motion simulation software
- LearnMate curriculum

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