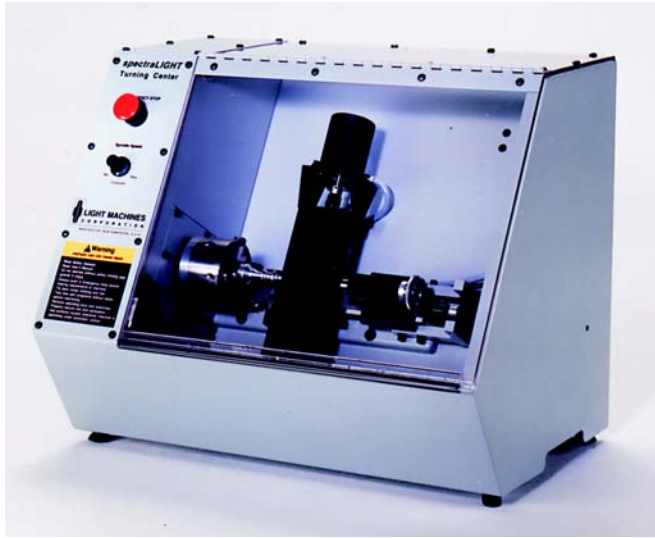


spectraLIGHT™ 0400 Turning Center



Standard Features

- Cast aluminum machine base
- Fully enclosed
- Aluminum Cross Slide
- Linear motion system:
 - Dovetail
 - Adjustable gibs
- Tooling/Accessories:
 - Indexable profiling tool holder
 - Profiling tool carbide insert
 - 3" (76 mm) 3-jaw industrial-grade chuck with two sets of jaws
- Hex Keys
- Spindle Bar
- Tailstock
- User's Guide/Software

Machine Specifications

Axis Travel

X Axis	4.6"	(117 mm)
Z Axis	6"	(152 mm)
Swing over bed	3.5"	(89 mm)
Swing over cross slide	1.25"	(32 mm)

Work Area

Table Size	8.5" x 2.75"	(216 mm x 70 mm)
No. of T-slots	2	

Spindle

Drive Motor	1/2 hp, 373 W
Motor Type	DC Permanent Magnet
Speed Range	200 - 2,500 RPM
Spindle Taper	Morse #1

Tailstock (Optional)

Taper	Morse #0	
Stroke	1.5"	(38 mm)
Center distance	8"	(203 mm)

Accuracy

Repeatability	0.0005"	(0.0127 mm)
Resolution	0.00013"	(0.0032 mm)

Axis Drive Motors

Feed Rate	0.1 – 12 ipm (2 – 300 mm/min)
Rapid Traverse	30 ipm (762 mm/min)
Stepper Motors	100 oz. in. (70 Ncm), 200 step/rev

Power Requirements

United States	115 VAC (+5%/-10%), 50-60 Hz, 15A
International	230 VAC (+5%/-10%), 50-60 Hz, 8A

Dimensions

Width	23"	(584 mm)
Depth	16"	(406 mm)
Height	18.5"	(470 mm)

Weight (approximate)

Machine	85 lbs.	(39 kg)
Shipping	125 lbs.	(57 kg)

intelitek ▶▶

444 East Industrial Park Drive • Manchester, NH 03109
(603) 625-8600 • (800) 221-2763 • (800) 777-6268
Fax: (603) 625-2137 • www.intelitek.com

spectraLIGHT

spectraLIGHT™ 0400 Turning Center Specifications

Control Specifications

Interpolation

Rapid and linear interpolation
Circular interpolation with center point or radius input
Threading, single-point with multi-pass

Programming Standards

EIA RS274-D standard G & M codes
Subprograms
Fanuc®-compatible
CAD/CAM compatible

Programming Modes

Incremental and absolute programming
G & M codes for robotic interfacing
Inch or metric programming
Scaling, rotation, mirroring and subprograms

Programming Features

Programmed pause, dwell, chain, and repeat functions
Programmable on/off spindle motor with M codes
Programmable spindle speed control with S codes
Canned cycles for threading, turning, and drilling
Align/homing command
Tool offsets for 199 tools
Cutter compensation
Multiple coordinate systems

Operational Modes

Programmed feed rate control
Feed rate override
Cycle start and stop
Program pause and feedhold
Manual or programmed spindle speeds
Computer-controlled jog, go-to, and traverse motion
Operational mode; single block and continuous run
Optional skip and stop

System Input

Calculator-style input for numeric data entry
Keyboard-or mouse-operated menus
Full screen editor support with keyboard or mouse

System Feedback

Error messages
HELP functions on screen
Instantaneous position readout of X and Z axes
2-D graphic tool path verification

Electronic Interface

Controller Box
PCI computer interface card
Computer interface cable
Control software

System Interfaces

PCI bus to host computer
Robotic interface with TTL I/O
Optically isolated AC outputs

Safety Features

Transparent 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

Computer System Requirements

Pentium P120 or faster personal computer with:

- Minimum of 64 MB RAM
- Hard drive with 5 MB RAM available space
- One available PCI slot
- Serial Port
- Parallel Port
- CD-ROM
- VGA graphics and monitor
- Mouse
- Windows® 98/2000/NT™ 4.0

Ordering Information

Power

115VAC, 50 - 60 Hz
230V, 50 - 60 Hz

Factory Installed Options

Pneumatic Shield Opener
Air Chuck Robotic Interface

Accessories

Automatic Tool Turret with Tools
Tool Turret Tools
Turning Center Fixture Kit
Carbide Insert Set
Indexable Tool Holder w/Carbide Insert
Tool Posts and Tools
Aluminum Turning Stock
Brass Turning Stock
Machinable Wax Turning Stock

CAM Software

spectraCAM™ Turning (Windows® Edition)*
spectraCAM™ Milling & Turning (Windows® Edition)*
* Requires Windows® 95/98/NT™

CAD Software

spectraCAD Engraver (provided with all spectraCAM packages)