



SpectraLIGHT 0400

SPECIFICATIONS

Construction

- Cast aluminum machine base
 - Fully enclosed
- Aluminum cross slide
- Linear motion system
 - Dovetail
 - Adjustable gibs
- Tooling/Accessories
 - Indexable profiling tool holder
- 3" (76mm) 3-jaw industrial-grade chuck with two sets of jaws
 - Hex keys
 - Spindle bar
 - Tailstock
- Axis travel
 - X Axis: 4.6" (117mm)
 - Z Axis: 6" (152mm)
- Swing over bed: 3.5" (89mm)
- Swing over cross slide: 1.25" (32mm)

Work area

- Table size: 8.5" x 2.75" (216mm x 70mm)

Spindle

- Drive motor: 1/2 hp, 373 W
- Motor type: DC permanent magnet
 - Speed range: 200-2,500 RPM
 - Spindle taper: Morse #1

Tailstock

- Taper: Morse #0
 - Stroke: 1.5" (38mm)
- Distance between centers: 8" (203mm)

Accuracy

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

Axis Drive Motors

- Feed rate: 0.1-12 ipm (2-300mm/min)
- Rapid traverse: 30 ipm (762mm/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" (584mm)
- Depth: 16" (406mm)
- Height: 18.5" (470mm)
- Weight (approximate)
 - Machine: 85 lb (39 kg)
 - Shipping: 125 lb (57 kg)

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 and control
 - Controller box
- PCI computer interface card
 - Computer interface cable
- CNCBase - programming and control software
- CNCMotion - 3D simulation software (optional)
 - 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