

SpectraLIGHT 0200

SPECIFICATIONS

Construction

Cast aluminum machine base

- Built-in chip tray
- Aluminum cross slide

Linear motion system

- Dovetail
- Adjustable gibs

Tooling/Accessories

- 3/8" tool holder
- 1/8" high speed steel, 4 flute, center-cutting end mill
- Spindle locking pin
- Hex keys
- Set of hold-down clamps

Axis travel

- X Axis: 8.5" (216mm)
- Y Axis: 4.5" (114mm)
- Z Axis: 5.5" (140mm)
- Open height: 7.62" (194mm)

Work area

- Table size: 13" x 2.75" (330mm x70 mm)
- Number of T-slots: 2

Spindle

- Drive motor: 1/3 hp, 249W
- Motor type: DC permanent magnet
- Speed range: 200-2,500 RPM
- Spindle bore: 0.375" (9.52mm)
- Throat: 3.5" (89mm)

Accuracy

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

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: 22" (559mm)
- Depth: 22" (559mm)
- Height: 25" (635mm)
- Weight (approximate)
- Machining center: 80 lb (36 kg)
- Shipping: 120 lb (55 kg)

Interpolation

- Rapid, linear and helical interpolation
- Circular interpolation with center point or radius input

Programming standards

- EIA RS274-D standard G&M codes
 - Subprograms
- Fanuc-compatible NC code subset
 - CAD/CAM compatibility

Programming and control

- Controller box
- PCI computer interface card
- Computer interface cable
- TTL I/O for integration with robotic system
- 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 Lexan® safety shield with interlock switch
 - Emergency stop switch on front panel
 - Emergency stop on keyboard
 - Limit switch on Z axis
- Keylock on electronic control box