

Workstation *BASIC*



Distinguishing Characteristics

- Allows for permanent and abrasion-resistant marking on most materials
- Compact tabletop device
- Integrated electrical Z-axis
- Integrated Focus-Finder-Function



Technical Data

Workstation *BASIC*

Laser

Laser marking system	Optional DPL <i>Magic</i> Marker (5 W, TEM ₀₀) or DPL <i>Genesis</i> Marker (8 W, TEM ₀₀) or DPL <i>Nexus</i> Marker (12 W, TEM ₀₀) Diode-pumped, active quality-switched solid state laser (Nd:YAG)
Wave length	1064 nm
Marking Field	110 mm x 110 mm
Resolution	725 dpi
Pilot laser	Integrated, 650 nm, 1 mW

Laser Protective Housing Class 1 with Integrated Height Adjustment

Marking field	110 mm x 110 mm
Clamping area	Base plate with T-grooves, 320 mm x 290 mm
Maximum height of parts	120 mm
Safety door	Manually operated, Safety switch integrated
Laser protective glass	50 mm x 200 mm integrated
Lighting	Integrated lighting of workroom
Exhaust discharge	Ø = 30 mm with conical flange for connecting an external air suction

Height Adjustment with Focus-Finder-Function

Motor-driven Z-axis	Linear axis driven by stepper motor, Recirculating ball screw and recirculating ball slides
Travel	70 mm
Operation	Optional by hand control unit (up/down – pushbutton), or via RS232

Interfaces

PC-Interfaces laser	RS232C, Centronics
PC-Interfaces	Height Adjustment, RS232C
Control panel	Functions up/down, Focus-Finder on/off, laser start Standard appliance outlet
Power supply	

System Requirements

IBM-compatible PC, Pentium 4, >2 GHz	
Main memory	512 MB
Operating systems	WINDOWS 2000/XP
Storage device	Hard disk, CD-ROM drive
PC interfaces	2 x USB 2.0, 1 x RS 232C

Power Supply and Consumption

85 - 260 VAC / 16A / 50-60 Hz	
Power consumption (typical)	50 W
Cooling, laser	only air-cooled, no water supply required

Operating Conditions

Operating temperature	15 °C - 35 °C
Humidity (relative)	30 % - 85 %, non-condensing

Weight without laser

32 kg

Dimensions (L x W x H)

790 mm x 440 mm x 535 mm

Options

Rotating spindle with partial function
Exhaust
Pneumatic door
Holding fixtures available on request

Technical description

ACI's compact and space-saving laser workstation marks single parts or small batches with speed and efficiency. The work piece is placed on a 320 x 290 mm² operation area and is covered by a manually-operated safety door. The workstation comes integrated with electrical lighting, an electrically-driven z-axis and two pilot lasers for the Focus-Finder-Function. Using either a hand control or the included software, it is possible to mark work parts with heights up to 120 mm. Valuable time may be saved with the Focus-Finder-Function, which allows for quick height adjustment. The Workstation *BASIC* is compatible with all ACI Lasers- DPL *Magic* Marker, DPL *Genesis* Marker and DPL *Nexus* Marker.