



Workstation *PROFESSIONAL*

Distinguishing Characteristics

- Allows for permanent and abrasion-resistant marking on most materials
- Compact devices
- Integrated electrical z-axis
- Integrated electrical x-axis
- Easy operation by a control panel
- Integrated Focus-Finder-Function
- Electrical driven safety door

Technical Data

Workstation *PROFESSIONAL*

Laser

Laser marking system	Optional Nd:YAG Laser DPL <i>Magic</i> Marker (5 W, TEM ₀₀) DPL <i>Genesis</i> Marker (8 W, TEM ₀₀) DPL <i>Nexus</i> Marker (12 W, TEM ₀₀) DPL <i>Fortis</i> Marker (18 W, TEM ₀₀) CO₂-Laser CO <i>Two</i> Marker (30 W, TEM ₀₀)
Wave length Nd:YAG systems	1064 nm
Wave length CO ₂ system	10600 nm
Pilot laser	Integrated, 650 nm, 1 mW

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Marking field Nd:YAG systems	110 mm x 110 mm 180 mm x 180 mm
Marking field CO ₂ system	70 mm x 70 mm 110 mm x 110 mm 180 mm x 180 mm
x-axis travel distance	400 mm
Clamping area	Base plate with T-slots, 600 mm x 600 mm
Maximum height of parts Nd:YAG systems	440 mm at 110 mm x 110 mm 250 mm at 180 mm x 180 mm
Maximum height of parts CO ₂ system	560 mm at 70 mm x 70 mm 500 mm at 110 mm x 110 mm 400 mm at 180 mm x 180 mm
Safety door	Electrical driven
Laser protective glass	100 mm x 200 mm
Lighting	Illuminated working chamber (integrated)
Exhaust	Prepared connection for external exhaust
Operation	Integrated control panel / software
Laser protection class	1

Height adjustment with Focus-Finder-Function

Motor-driven z-axis	Linear axis driven by stepper motor, recirculating ball screw and recirculating ball slide
Travel distance	440 mm
Operation	Integrated control panel / software
Focus-finder	2 pilot lasers

Interfaces

PC-interfaces	USB 2.0
Power supply	Standard appliance outlet, filtered

Cooling

integrated industrial air-cooling system

Power supply and consumption

85 – 260 VAC / 16 A / 50-60 Hz	
Power consumption (typical)	400 W
Cooling laser	Only air-cooled, no water supply required

Operating conditions

Operating temperature	15 °C – 35 °C
Humidity	30 % - 85 %, non-condensing

Weight without laser

Workstation <i>PROFESSIONAL</i>	125 kg
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Dimensions (L x W x H)

Workstation <i>PROFESSIONAL</i>	1050 mm x 760 mm x 1050 mm
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Options

- Rotary device
- y-axis
- Exhaust unit
- holding fixture

Technical description

With its 600 mm x 600 mm, the T-slot base plate in the extended working area of the manual workplace Workstation *PROFESSIONAL* provides extra large space for big parts. An x-Portal extending the working area to 500 mm is installed as standard. With this, depending on the laser type, it offers a freely programmable marking area of max. 500 mm x 180 mm. Workpieces of different heights can be marked by using the integrated electrically driven z-axis. Two pilot lasers help the operator set the right working distances only within a few seconds. The integrated preview feature of the pilot laser offers easy x-y-positioning of the marking contents as well. These functions save valuable changeover time and even perfect marking of individual parts is provided. The electrically driven door of the workspace ensures comfortable changing of workpieces. The Workstation *PROFESSIONAL* is designed to meet the directives of the laser safety class 1 and can be operated with all laser systems made by the ACI Laser GmbH. It has an extended range of accessories to offer adequate solutions for nearly each imaginable application.