

Workstation *COMFORT*



Distinguishing Characteristics

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

Technical Data

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
Marking field CO ₂ system	70 mm x 70 mm 110 mm x 110 mm 180 mm x 180 mm
Clamping area	Base plate with T-grooves, 650 mm x 430 mm
Maximum height of parts Nd:YAG systems	140 mm at 110 mm x 110 mm
Maximum height of parts CO ₂ system	260 mm at 70 mm x 70 mm 200 mm at 110 mm x 110 mm 100 mm at 180 mm x 180 mm
Safety door	Electrical driven
Laser protective glass	100 mm x 100 mm
Lightning	Integrated lightning of workroom
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	140 mm
Operation	Integrated control panel / software
Focus-finder	2 pilot lasers

Interface

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 (relative)	30 % - 85 %, non-condensing

Weight without laser

Workstation <i>COMFORT</i>	45 kg
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Dimensions (L x W x H)

Workstation <i>COMFORT</i>	900 mm x 760 mm x 690 mm
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Options

- Rotary device
- Holding fixture
- Exhaust unit

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Technical description

As manual workplace the Workstation *COMFORT* features large workspace. On its T-grooved support plate, it can support workpieces with a maximum surface of 600 mm x 400 mm. Depending on the used laser system and the focal lens there is a marking area of maximum 180 mm x 180 mm available. Marking of workpieces of different heights is provided by 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 features 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 *COMFORT* is designed to meet the directives of the laser safety class 1 and can be operated with all laser systems made by ACI Laser GmbH. It has an extended range of accessories to offer adequate solutions for nearly each imaginable application.