Mobil-Mark
mobile laser marking

TECHNICAL DATA SHEET 02|2021

Quasar laser marking system

The universal laser for numerous applications

Application

- MOPA fibre laser that can be used without additional protective measures thanks to patented laser protection class 1 safety technology
- Suitable for various applications and materials thanks to adjustable frequency range from 1 kHz to 400 kHz (Q 20 / 30), 1 to 4000 kHz (Q 60)
- Laser marking software installed on the laser
- Dust and gases fed through purge air to activated carbon and fine filter
- Can be combined with various accessories

Features

- Power output: 20, 30 or 60 watts
- Wavelength: 1064 nm
- Pulse frequency range: 1 - 400 kHz (Q 20 / 30) / 1 - 4000 kHz (Q 60)
- Pulse width: 200 ns (Q 20 / 30) / 2 - 500 ns (Q 60)
- Maximum pulse energy: 0.6 mJ / 1.2 mJ / 1.6 mJ
- Laser output pulse peaks: approx. 4 kW / 5 kW / 16 kW
- Laser focus diameter: approx. 40 µm (lens f = 80 mm)
- Marking speed: maximum 5000 mm/s
- Marking fields: elliptical / rectangular, up to 120 x 100 mm / 100 x 80 mm (f = 160 mm)
- Power consumption: 250 / 100 W (marking / standby)

Technical data: complete unit

- Ambient temperature: 15 °C to 35 °C
- Humidity: 10% to 80%, non-condensing
- Protection: IP 40
- Laser class: 1 (when used as intended)
- Rated voltage: 230 V AC 50 / 60 Hz, 250 W

Technical data: handset

- Weight: 2.7 kg
- Footprint: approx. 320 mm x 160 mm
- Height: from approx. 170 mm

Technical data: connecting hose

- Length: 2.7 m
- External diameter: 50 mm
- Minimum bending radius: 250 mm

Technical data: supply unit

- Power supply: mains operation 230 V AC 50 / 60 Hz
- Control computer: Industrial PC, Win 10 Pro with marking software
- Programme memory: for an unlimited number of jobfiles, including 15 directly via job selector switch on the unit
- Safety PLC: for monitoring the safety technology
- Connections: 1x USB, 1x HDMI, LAN network connection (e.g. for remote desktop), external control and safety technology
- Footprint: 520 mm x 430 mm
- Height: 950 mm
- Weight: 40 kg
- Noise level: 65 dB

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