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Lateral High Power Powder Feed Nozzle

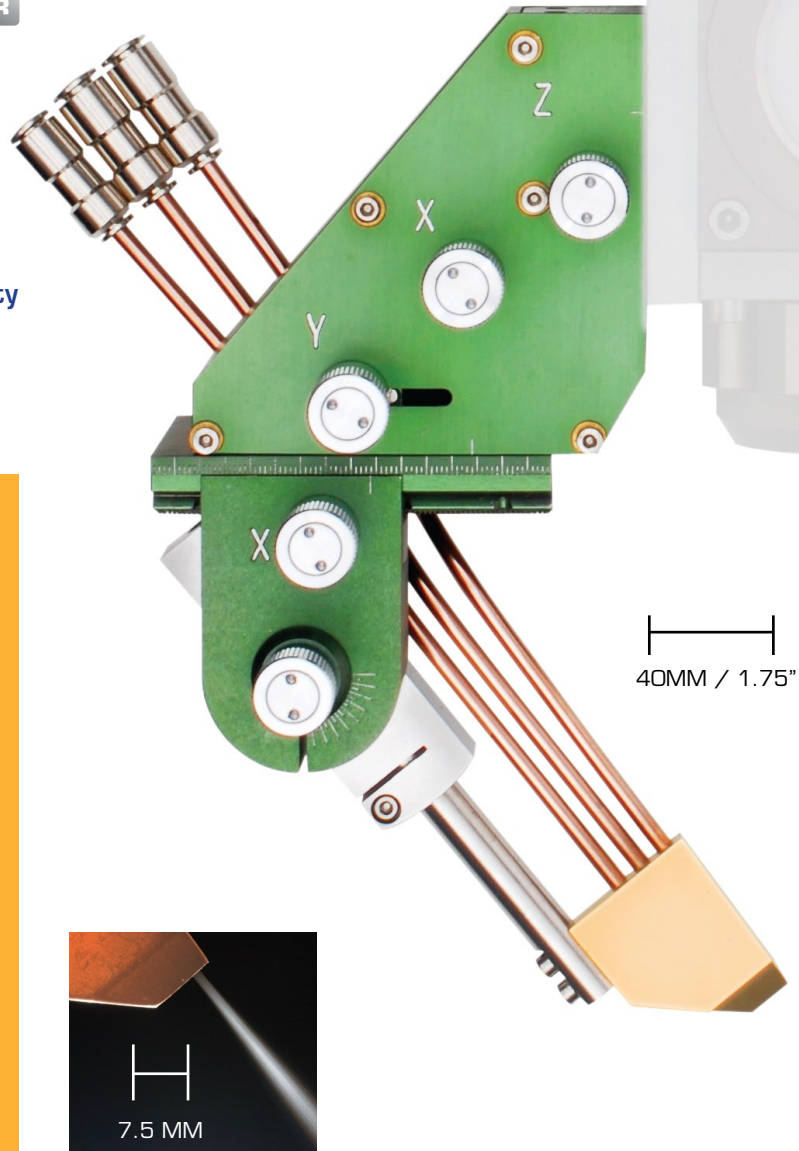
Suited for very high laser power • High accessibility
• Modular system with high flexibility in deposition rate (nozzle geometry) • Unidirectional LMD

TECHNICAL SPECIFICATIONS

Applicable for the following laser beam sources	CO ₂ , Nd:YAG, Diode, Fibre, Disc
Required focal length of the laser beam optics (minimum)	100 mm
Applicable up to a laser power of	10 kW
Applicable for powders with a particle size of	20 - 150 µm
Maximum tilt angle of laser beam axis	30° - 80°
Distance between nozzle tip and work piece	10 - 14 mm
Typical diameter of the powder stream focus (depends on powder particle size)	2 - 8 mm
Single track width	1 - 10 mm
Weight (including flange and adjustment unit)	approx. 1 kg

Contents: Adjusting unit (x-y-z), powder feeding connection, cooling water connections, lateral nozzle (standard: inside tube diameter 2 mm), extension bar, adjusting blocks, adapter plate to optics if required, manual

Interfaces: Cooling water of 3-6 l/min (copper cooling circuit), 20 - 25 °C
Shielding gas of (He/Ar) = 2 - 30 l/min



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