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Continuous Coaxial Powder Feed Nozzle

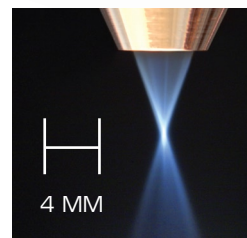
Small diameter of powder focus achievable • High powder efficiency • High accessibility on the work piece • Multidirectional LMD • Excellent shielding from atmosphere • Suited for materials highly susceptible to oxidation

TECHNICAL SPECIFICATIONS

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|---|---|
| Applicable for the following laser beam sources | CO ₂ , Nd:YAG, Diode, Fibre, Disc |
| Required focal length of the laser beam optics (minimum) | 150 mm |
| Applicable up to a laser power of | 1,5 kW CO ₂ laser 2,5 kW others |
| Applicable for powders with a particle size of | 20 - 100 µm |
| Maximum tilt angle of laser beam axis | 20° |
| Distance between nozzle tip and work piece | 7 - 9 mm |
| Minimum diameter of the powder gasstream focus (depends on powder size) | 300 µm |
| Single track width | 0.5 - 4 mm |
| Weight (including flange and adjustment unit) | approx. 3 kg |

Contents: Adjusting unit (x-y-z), protection window, powder feeding connections, powder gas stream splitter, nozzle tip, protection cap for nozzle tip, cooling water connections, inside coaxial protection gas feeding, adapter plate to optics if required, short 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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