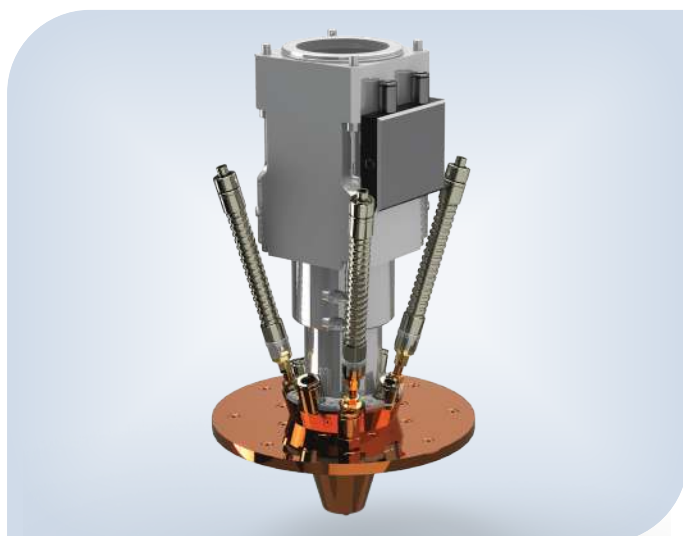




4-axis nozzle attachment

For powder laser cladding



4-axis nozzle attachment is designed for four-sided feeding of the cladding material and shielding gas into the laser beam focusing area. The attachment is fully compatible with FLW D50 heads.

The 4-axis nozzle attachment is an accurate and reliable tool with additional protection against reflected radiation. The permissible laser power is 10 kW. The 4-axis nozzle attachment is adapted to work with various optical systems. Its modular design covers a wide range of focal lengths of laser heads.



Applications

- ▶ High-performance powder laser cladding of complex-shaped parts



Distinctive features

- ▶ Support for high-power radiation (up to 10 kW)
- ▶ Independent of the cladding direction
- ▶ Additional protection against reflected radiation
- ▶ Additional cooling units

Key specifications

Optimal powder particle size, μm	20-200
Maximum powder feed rate, kg/h	7.5
Powder stream waist diameter, mm	4-6
Working distance, mm	27-30
Maximum tilt angle, $^{\circ}$	8
Maximum laser power, kW	10
Closed-loop water cooling system	Yes
Shielding gas supply system	Yes
Laser spot diameter, mm	Up to 8
Material utilisation rate, %	Up to 93

+7 (496) 255-74-46
mail@vpglaserone.ru
vpglaserone.ru

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