



HighNo 20-6

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In the discrete powder feed nozzles, a powder gas jet focus is generated by 6 powder gas streams guided coaxially to the laser beam.

The modular design of the nozzle allows the use of different precision tubes for variable powder gas jet foci for a wide variety of applications.

- 3D capable
- direct water cooling
- High wear resistance due to the use of precision tubes
- Customer-replaceable precision tubes for variable powder gas jet foci

Technical specifications:

- up to 12 kW laser power (when used correctly)
- Weight is approximately 1 kg
- Recommended powder particle size: 20 - 50 μm , 50 - 100 μm (larger sizes are also possible)
- Powder gas jet focus $\varnothing$ 2.5 mm at 3 g/min with inlay 1.5 mm
- Possible track widths: 3 - 12 mm
- Up to 400 g/min max. powder mass flow
- direct water cooling (1-3 l/min at 18 - 20 °C)
- Maximum powder efficiency can reach up to 98% depending on the melt pool diameter. The amounts vary depending on the application.
- Precision tubes 0,5 mm, 0,8 mm, 1,0 mm, 1,2 mm, 1,5 mm, 2.0 mm and 2.5 mm