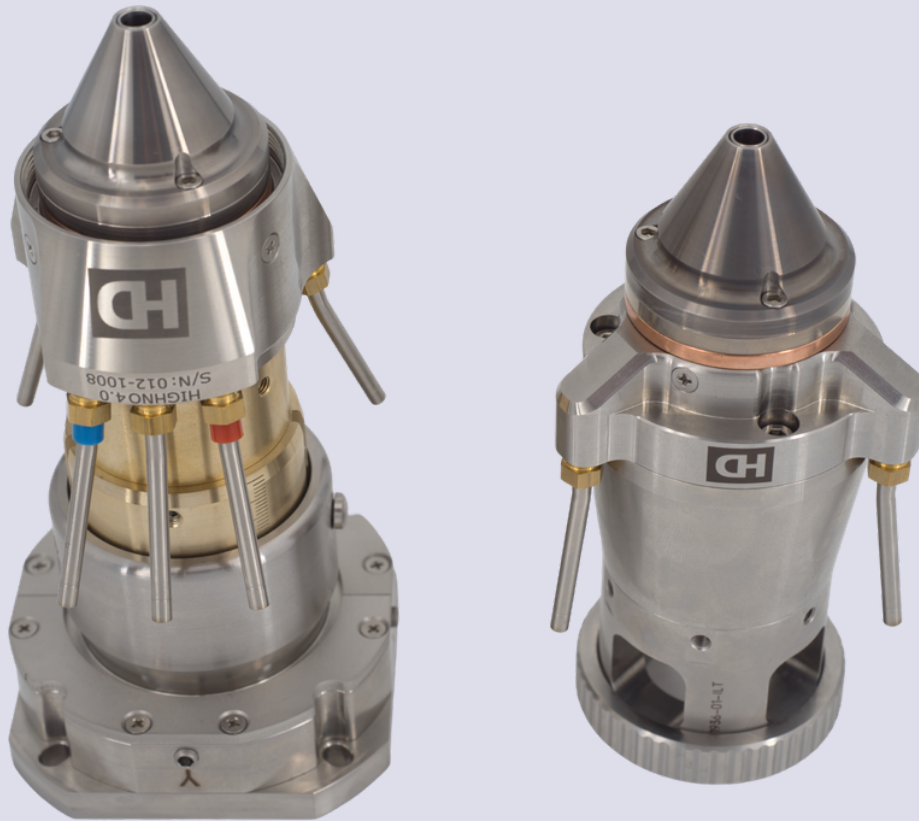




XYZ-adjustment unit

Optical integration/connection

The powder nozzles can be flanged to any optic – either via the XYZ adjustment unit or the so-called Trumpf connection for a Trumpf processing optic.

The connection to the Trumpf optics is possible at any time, regardless of the focal length of the focusing lens (space requirements). The XYZ connection also serves to align the powder focus with the laser focus. Adjustment in the x and y directions is achieved using opposing adjusting screws.

In the z-direction, the powder feed nozzle's receiving tube is moved within the cylindrical guide by means of a gear and rack. This ensures reliable and, above all, reproducible adjustment in the z-direction. The scale on the tube makes it easier to read the exact position.

Depending on customer requirements, the adjustment can be adapted to the processing optics.

Compatibility with the powder feed nozzles from HD or the ILT is still present.

The interface here has remained unchanged.

- Adjustment in x, y and z directions
- Adjustment range in x and y directions: $\pm 3\text{mm}$
- Adjustment range in z-direction: $\pm 10\text{ mm}$
- Variable length of the brass tube to adapt to customer requirements
- Processing optics (variable focusing focal lengths)
- Adaptable to all common laser processing optics
- Additional shielding gas connection