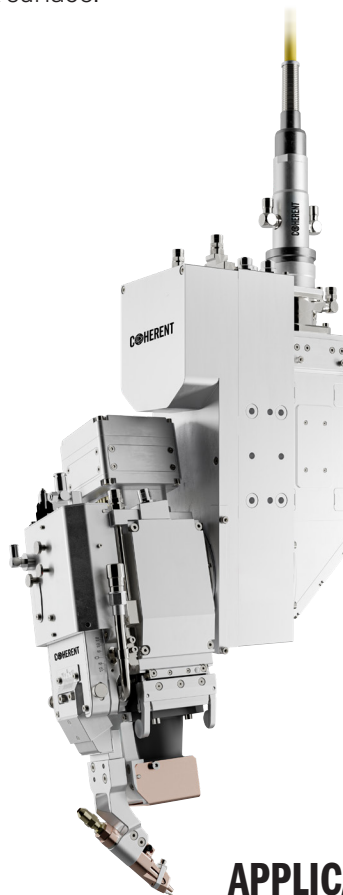


HIGHtactile

Tactile Seam-Tracking Process Head

HIGHtactile is a tactile seam-tracking laser welding head that delivers enhanced productivity and superior results for brazing and wire welding in e-mobility, body-in-white, and other assembly applications. HIGHtactile utilizes embedded sensors and servo-driven head motion to continuously deliver precise, three-dimensional force control regardless of seam shape or head orientation. The result is consistent, cosmetically attractive brazed joints and strong welds – even when there are part-to-part variations in dimensions or fit-up.

HIGHtactile is compatible with fiber-delivered lasers of up to 8 kW. It utilizes a high-quality optical system to faithfully maintain the input beam profile all the way to the work surface.



FEATURES

- Left- and right-handed robot mount
- Multi-coupler unit for media supply, wire feeding, and crash sensors
- Software suite with digital crosshair generator
- Process and collimation protective window
- Protective window monitoring system

APPLICATIONS

- Wire welding:
 - Battery box
 - Roof
 - A-pillar, B-pillar
 - Door
 - Trunk lid
- Brazing:
 - Roof
 - Trunk lid
 - Rain channel

Specifications	HIGHtactile
Magnification	1:1 to 1:6 ¹
Maximum Average Laser Power (kW)	8 up to 10 ²
Maximum Beam Parameter Acceptance (half angle)	97% connect with 125 or 210 mrad
Wavelength (nm)	900 to 1090
Laser Light Cable Receiver	LLK-Auto, Optoskand QBH ¹
Electrical	DC 24V, 10A
Field Bus System	ProfiNet, EtherNet IP, DviceNet ¹
Data Connection	Ethernet
Dimensions (H x W x D, mm)	585 x 226 x 327 mm ²
Weight (kg)	25 ²

Notes:

1. Other on request.
2. Depending on configuration

Mechanical Specifications

HIGHtactile

