

A 3D surface scan of a weld joint, showing the depth of the weld penetration. The scan is rendered in shades of blue and cyan, with the deepest part of the weld appearing in a lighter, yellowish-orange color. The scan is set against a black background.

deepobserver

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weld depth measurement

absolute measurement of weld depth

closed loop control of weld penetration

3 measurement devices in one: **welding penetration depth, seam surface, seam & gap tracking**

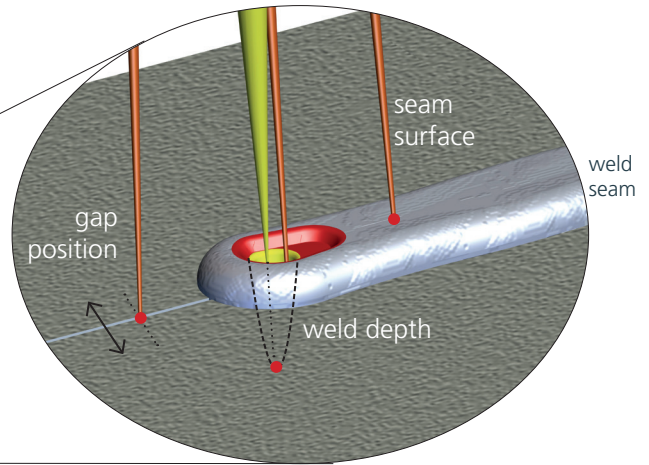
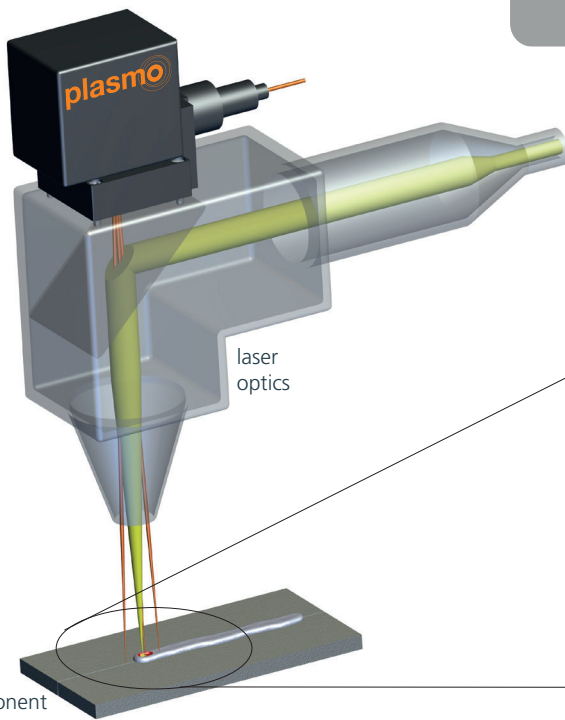
independent of welding optics

PRODUCE QUALITY. ALWAYS.

plasm^o

plasma data management & part visualization

- integrated in plasmO suite: combination of multiple sensors for analysis of part defects
- low maintenance
- full traceability



Technical Data/Specifications

Measurement

Inline Coherence Imaging
 Measuring area (depth): 6 mm
 Measuring range (sliding area): 640 mm
 Wave length, Measuring beam: 800–900 nm
 Power, measuring beam: < 10 mW
 Resolution: 20 µm
 Measurement rate: 250 kHz

Communication

Ethernet: 1
 Analogue output: 2 x -10 – 10 V DC
 Digital I/O: 24 V
 Profibus, Profinet, Devicenet, EthernetIP,
 Interbus, TwinCAT: optional

Framework/Environment

4U 19" Rack Mount Case
 (483 x 177 x 736 mm, 34 kg)
 Scanner at laser optic
 (174 x 77 x 105 mm, 1.2 kg)
 PC (504 x 430 x 175 mm, 18 kg)
 Power supply: 120/230V AC
 Temperature: 10-30 °C, non-condensing

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