

Weld depth monitor

## The right depth

01

**100% control**

02

**Minimizing  
production rejects**

04

**Easy setup**

03

**Consistent  
traceability**

01

## 100% control

The TRUMPF weld depth monitor delivers continual welding depth data during the process. It monitors the welding depth in relation to the set limit values. In contrast to random cross-section polish samples, a 100% check of the welding depth along the entire seam is guaranteed.

02

## Minimizing production rejects

The weld depth monitor gives an immediate notification if the welding depth is either too shallow or too deep. Production errors are revealed immediately and can be corrected in time. The number of reject parts is reduced to a minimum. The error signal can be sent to the control and unsatisfactory parts are discharged automatically. Manual intervention is no longer necessary.

03

## Consistent traceability

The welding depth data is made available externally to our customers through an interface. The traceability of your welding part production is ensured in this way, combined with the identity number of the part.

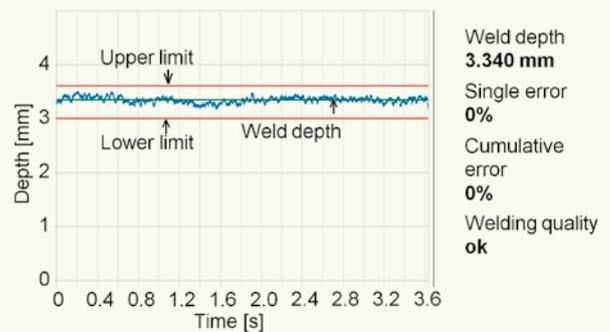
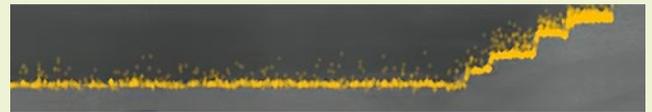
04

## Easy setup

With the help of a camera-based adjustment aid, the welding depth sensor can be set up easily and with high precision. The setting parameters can be saved in a part-specific way, and be called up again when processing that part later. With part-specific process parameters, the system ensures that the weld is always measured at the deepest point.

## Getting the right depth with the TRUMPF weld depth monitor

With our innovative sensor technology, it is now possible to look directly into the welding process. The system is based on an interferometric measuring principle. Combined with the TRUMPF processing optics BEO D70, the welding depth monitoring is ideally suited for long seams on round components.



### TRUMPF weld depth monitor

Available optics	BEO D70
Available focal lengths	f = 200 mm, f = 300 mm
Laser class of welding depth sensor	Class 3R, P <sub>0</sub> = 40 mW
Measurement rate	70 kHz
Measurement depth range	0.5 bis 8 mm
Precision	< 10%

Subject to alteration. Only specifications in our offer and order confirmation are binding.

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