

Melt travel monitor

## Melting made to measure



01

**Reduction of rejects**

02

**Easy integration**

03

**Consistent traceability**

04

**Customer-specific adaptation**

**01**

## Reduction of rejects

The distance between the mating parts is constantly and precisely measured with the melt travel sensor. In this way you have a better check of your process, and you can compensate your production tolerances. The number of reject parts is reduced to a minimum.

**02**

## Easy integration

The melt travel monitor is integrated in the scanner optics and functions with many commercially available travel sensors. The travel sensor is connected to the analog interface of the scanner using the cable enclosed in the delivery. Because of this, you don't need to worry about complex wiring. The configuration is done very easily using the central laser control. The melt travel monitor is also compatible with the TRUMPF temperature control.

**03**

## Consistent traceability

The melt travel data can always be called up through an interface. The traceability of your welding part production is ensured in this way, combined with the identity number of the part.

**04**

## Customer-specific adaptation

TRUMPF delivers the suitable clamping fixture as a supplement for the melt travel monitor. With its modular force levels, the fixture equipment can be ideally adapted to customer-specific applications. Parts can be put away using the drawers. Precision stop bolts ensure high repetition accuracy.

## Checked melting with the TRUMPF melt travel monitor

The TRUMPF melt travel monitor tracks the lowering of the part when doing laser transmission welding of plastics. After a defined material melt, the laser shuts off. A typical application example is the quasi-simultaneous welding of closed contours.



### TRUMPF melt travel monitor

Available lasers	TruDiode 151, TruDiode 301, others on request
Available optics	PFO 20-2 post-objective
Available focal lengths	200 mm, 280 mm, more on request
Available fixture equipment	Customer-specific or as an option from TRUMPF (up to 5 force levels at 2000 N and 5 bar)
Voltage range of the analog interface	0 to 10V
Resolution	12 bit
Precision	< 0.5%

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