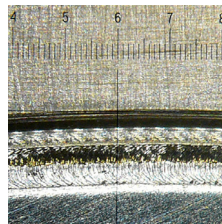


LAS Laser welding

A modern laser welding plant geared to the demands of force measurement devices, in combination with our qualified staff, enables us to manufacture sensor products to the highest levels of precision and accuracy. We are thus in a position to supply sensors with higher degrees of protection and can respond accordingly to the most varied fields of application. Make use of our know-how to further improve your products. We would be pleased to offer you our professional services: Laser welding on the dedicated plant installed at A.S.T. GmbH in Dresden.



Peak pulse power 0.3 kW, single pulse energy 1.9 J, frequency 14 Hz, spot diameter 0.4 mm

Special features

- Minimal energy input
- Ideal for the sealing of housings
- Pressure-tight
- Excellent appearance
- Ultimate precision in 3 axes
- Machining of single pieces

Application examples

Corrugated tube welded with stainless-steel body (KAB)



Tube (0.1 mm) welded with stainless-steel body (KAS)



Diaphragm (0.3 mm) welded with stainless-steel body (KAF)



Three-dimensional welding seam (KAU)



Specification

Laser Nd:YAG, 1064 nm		0.2
Mean power	W	120
Pulse energy	J	0.1 ... 75
Peak pulse power	kW	9
Pulse duration	ms	0.5 ... 20
Pulse frequency, max.	Hz	20
Workpiece guide (linear)		
Max. workpiece travel	mm	(x, y, z) 250/200/350
Max. weight	kg	350
Workpiece guide (rotary)		
Max. workpiece diameter (clamping)	mm	approx. 200
Welding seam, joint welding		
Weld depth	mm	0.1 ... 0.7
Width (spot diameter)	mm	0.2 ... 2.0
Max. gap width	mm	0.1

Order Example

Type code	Description
LAS-R	Laser welding setup costs
LAS	Laser welding piece costs