

TRUMPF



Seam position control

Technical data

TRUMPF



SeamLine

SeamLine Remote

SeamLine Pro TruFlow

CONFIGURATION

SYSTEMS AVAILABLE	TruLaser Cell 1100	Qualified for Kuka, ABB and Fanuc robots	TruLaser Cell 1100
AVAILABLE LASERS	TruFlow up to 15 kW, TruDisk up to 8 kW	TruDisk up to 8 kW	TruFlow up to 15 kW
AVAILABLE FOCAL LENGTHS	f = 150, 200, 250, 300 mm (Linear welding optics)	f = 450 mm (PFO 3D)	f = 200 mm (Linear welding optics)
LIGHTING	LED, $\lambda = 660$ nm (Incident light) Laser diode, $\lambda = 660$ nm Class 2M, PO = 8 mW (line projector)	Laser diodes, $\lambda = 660$ nm Class 3B, PO = 120 mW (line projectors)	LED, $\lambda = 660$ nm (Incident light) Laser diodes, $\lambda = 660$ nm Class 3B, PO = 120 mW (line projectors)
OCT SENSOR	-	-	-

PARAMETERS

OCT SENSOR MEASUREMENT RATE	-	-	-
SEAM POSITION CONTROLLER CYCLE RATE	50 Hz (20 ms)	167 Hz	167 Hz (6 ms)
LATERAL MEASUREMENT RANGE	± 5 mm	± 5 mm	± 1.5 mm with gap width 0.5 mm
MEASURING ACCURACY OF THE SEAM POSITION CONTROL	± 20 μ m	± 50 μ m	± 20 μ m

SeamLine Pro TruDisk

OCT seam position control

CONFIGURATION

SYSTEMS AVAILABLE	-	Qualified for Kuka, ABB and Fanuc robots
AVAILABLE LASERS	TruDisk up to 8 kW	TruDisk up to 8 kW
AVAILABLE FOCAL LENGTHS	f = 280 mm (BEO D70) f = 280 mm (CFO)	f = 450 mm (PFO 3D)
LIGHTING	Laser diodes, $\lambda = 660$ nm Class 3B, PO = 120 mW (line projectors)	-
OCT SENSOR	-	SLED, $\lambda = 820$ nm - 860 nm Class 3B, PO = 20 mW

PARAMETERS

OCT SENSOR MEASUREMENT RATE	-	70 kHz
SEAM POSITION CONTROLLER CYCLE RATE	167 Hz (6 ms)	Type 200 Hz (PRE) Type 100 Hz (10 ms) PRE + POST
LATERAL MEASUREMENT RANGE	± 0.6 mm with chamfer width 0.5 mm	± 10 mm
MEASURING ACCURACY OF THE SEAM POSITION CONTROL	± 20 μ m	± 50 μ m

Subject to changes. The information in our offer and our order confirmation is definitive.