



Seam position control

Technical data

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, P0 = 8 mW (line projector) | Laser diodes, $\lambda = 660$ nm Class 3B, P0 = 120 mW (line projectors) | LED, $\lambda = 660$ nm (Incident light) Laser diodes, $\lambda = 660$ nm Class 3B, P0 = 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, P0 = 120 mW (line projectors) | - |
| OCT SENSOR | - | SLED, $\lambda = 820$ nm - 860 nm Class 3B, P0 = 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 details in our offer and order confirmation are definitive.