



# Focusing optics

Technical data

**BEO D25****BEO D35****BEO D50****LASER PARAMETERS**

WAVELENGTH	-	-	-
POWER	up to 150 W (cw)	up to 4000 W (cw)	up to 8000 W (cw)
NUMERICAL APERTURE	typ. 0.11 / max. 0.12	typ. 0.11 / max. 0.12	typ. 0.11 / max. 0.12
LASER LIGHT CABLE TYPE	LLK-A	LLK-Q, LLK-D, LLK-B, LLK-A	LLK-D, LLK-B, LLK-A

**OPTICS CONFIGURATION <sup>1</sup>**

COLLIMATION	90 mm	35 / 80 / 100 mm	35 / 100 / 125 mm
FOCAL LENGTH	48 / 60 / 90 / 135 mm	70 / 100 / 140 / 200 / 300 mm	150 / 200 / 250 / 300 mm

**STRUCTURAL DESIGN**

DIMENSIONS (W X H X D)	25 mm x 198 mm x 25 mm (configuration example)	166 mm x 313 mm x 62 mm (configuration example with camera monitoring and crossjet)	128 mm x 407 mm x 100 mm (configuration example with camera monitoring and crossjet)
WEIGHT	0.3 kg (configuration example)	2.5 kg (configuration example with camera monitoring and crossjet)	3.5 kg (configuration example with camera monitoring and crossjet)

**COMPATIBILITY**

AVAILABLE LASERS	TruPulse	TruDiode, TruDisk, TruFiber, TruPulse	TruDiode, TruDisk, TruFiber, TruPulse
AVAILABLE SENSOR SYSTEM	-	-	VisionLine, CalibrationLine Power

**OPTIONS**

AVAILABLE OPTIONS	90° version, bifocal module, camera monitoring, sensor interface, 15 g version	90° version, crossjet, shielding gas supply, bifocal module, camera monitoring, sensor interface, lighting, cartridge module, 15 g version	90° version, crossjet, MVE nozzle, shielding gas supply, bifocal module, camera monitoring, sensor interface, lighting, cartridge module
-------------------	--	--	--

**BEO D70****RFO****CFO****LASER PARAMETERS**

WAVELENGTH	-	-	-
POWER	up to 8000 W (cw)	from 16000 W (cw)	up to 8000 W (cw)
NUMERICAL APERTURE	typ. 0.11 / max. 0.12	typ. 0.11 / max. 0.12	typ. 0.11 / max. 0.12
LASER LIGHT CABLE TYPE	LLK-D, LLK-B, LLK-A	LLK-D	LLK-D, LLK-B

**OPTICS CONFIGURATION <sup>1</sup>**

COLLIMATION	150 / 200 mm	-	200 mm
FOCAL LENGTH	100 / 150 / 200 / 300 / 400 / 600 mm	600 mm	100 / 150 / 200 / 300 / 400 / 600 mm

**STRUCTURAL DESIGN**

DIMENSIONS (W X H X D)	189 mm x 524 mm x 78 mm (configuration example with camera monitoring and crossjet)	123 mm x 446 mm x 176 mm (configuration example with camera monitoring and crossjet)	163 mm x 519 mm x 114 mm (configuration example with camera monitoring and crossjet)
WEIGHT	6 kg (configuration example with camera monitoring and crossjet)	6.5 kg (configuration example with camera monitoring and crossjet)	8.5 kg (configuration example with camera monitoring and crossjet)

**COMPATIBILITY**

AVAILABLE LASERS	TruDiode, TruDisk, TruPulse	TruDisk	TruDiode, TruDisk, TruPulse
AVAILABLE SENSOR SYSTEM	VisionLine, CalibrationLine Power, welding depth sensor system	-	VisionLine, CalibrationLine Power

**BEO D70****RFO****CFO****OPTIONS**

## AVAILABLE OPTIONS

90° version, crossjet, MVE nozzle, shielding gas supply, bifocal module, sensor interface, lighting, cartridge module, protective glass monitoring unit, power measuring cartridge, pilot laser, compensation cartridge, multifocus element

Crossjet, camera monitoring, cartridge module, protective glass monitoring unit

90° version, crossjet, MVE nozzle, shielding gas supply, bifocal module, camera monitoring, sensor interface, lighting, cartridge module, protective glass monitoring unit, power measuring cartridge, pilot laser, compensation cartridge

## Footnotes

---

1 — Other optics configurations are available on request.

2 — Other wavelengths are available on request.