



# Programmable focusing optics

Technical data

**PFO 14****PFO 20****PFO 33****LASER PARAMETERS**

WAVELENGTH	-	-	-
POWER	bis 2000 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-B, LLK-A	LLK-B, LLK-D

**OPTICS CONFIGURATION <sup>2 2</sup>**

COLLIMATION	35 / 56 mm	-	-
FOCAL LENGTH	100 / 160 / 163 / 254 / 330 / 420 mm	-	-
Z STROKE FOR FOCAL LENGTH OF LENS	-	-	-
FIELD SIZE (ELLIPSE Y X X) FOR FOCAL LENGTH OF LENS	f100: 47 mm x 18 mm f160: 110 mm x 75 mm f163: 110 mm x 70 mm f254: 170 mm x 120 mm f330: 220 mm x 178 mm f420: 286 mm x 230 mm	-	f255: 180 mm x 104 mm f345: 240 mm x 140 mm f450: 320 mm x 190 mm f600: 376 mm x 230 mm f900: 520 mm x 310 mm

**STRUCTURAL DESIGN**

DIMENSIONS (W X H X D)	278 mm x 391 mm x 202 mm (Beispielkonfiguration mit fc56 und f160)	185 mm x 185 mm x 205 mm	185 mm x 185 mm x 230 mm
WEIGHT	15 kg	15 kg	25 kg

**COMPATIBILITY**

AVAILABLE LASERS	TruDiode, TruDisk, TruMicro	-	-
AVAILABLE SENSOR SYSTEM	-	-	-

**OPTIONS**

AVAILABLE OPTIONS	Crossjet, camera monitoring	-	-
AVAILABLE SOFTWARE OPTIONS	TruTops PFO, PFO Smart Teach App	-	-

**INSTALLATION**

PROTECTION CLASS	-	IP54	IP54
AMBIENT TEMPERATURE	-	15 °C - 40 °C	15 °C - 40 °C

**PFO 1D****PFO 3D****LASER PARAMETERS**

WAVELENGTH	-	-
POWER	bis 80000 W (cw)	bis 8000 W (cw)
NUMERICAL APERTURE	typ. 0.11 / max. 0.12	typ. 0.11 / max. 0.12
LASER LIGHT CABLE TYPE	LLK-D, LLK-B	LLK-D

**OPTICS CONFIGURATION <sup>2 2</sup>**

COLLIMATION	150 mm	138 mm
FOCAL LENGTH	150 / 200 / 300 mm	255 / 345 / 450 / 600 / 900 mm

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

## PFO 1D

## PFO 3D

Z STROKE FOR FOCAL LENGTH OF LENS

-

f255: ± 22 mm  
f345: ± 40 mm  
f450: ± 70 mm  
f600: ± 100 mm  
f900: ± 220 mm

FIELD SIZE (ELLIPSE Y X X) FOR FOCAL LENGTH OF LENS

-

f255: 174 mm x 102 mm (z=0)  
f345: 240 mm x 140 mm (z=0)  
f450: 320 mm x 190 mm (z=0)  
f600: 376 mm x 230 mm (z=0)  
f900: 525 mm x 340 mm (z=0)

### STRUCTURAL DESIGN

DIMENSIONS (W X H X D)

227 mm x 562 mm x 229 mm

412 mm x 266 mm x 366 mm

WEIGHT

12.5 kg

35 kg

### COMPATIBILITY

AVAILABLE LASERS

TruDiode, TruDisk

TruDisk

AVAILABLE SENSOR SYSTEM

-

VisionLine, CalibrationLine,  
SeamLine Remote, OCT seam  
position control

### OPTIONS

AVAILABLE OPTIONS

Crossjet, MVE nozzle, shielding gas  
supply, camera monitoring, sensor  
interface, lighting, cartridge  
module, protective glass  
monitoring unit

I-PFO, crossjet, MVE nozzle, smoke  
bell, lighting version

AVAILABLE SOFTWARE OPTIONS

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TruTops I-PFO and TruTops PFO,  
PFO Smart Teach App

### INSTALLATION

PROTECTION CLASS

-

-

AMBIENT TEMPERATURE

-

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## Footnotes

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1 — Other wavelengths are available on request.

2 — Other optics configurations are available on request.