



# TruFiber P compact

Technical data

**TruFiber 100 P  
compact (FD44-A)****TruFiber 200 P  
compact (FD44-A)****TruFiber 300 P  
compact (FD44-A)****LASER PARAMETERS**

LASER POWER AT THE LLK PLUG	100 W	200 W	300 W
TYPICAL POWER CONSTANCY AT RATED POWER	± 2 % (Spitzenwert)	± 2 % (Spitzenwert)	± 2 % (Spitzenwert)
CONTINUOUSLY ADJUSTABLE POWER RANGE	10 W - 100 W	20 W - 200 W	30 W - 300 W
BEAM QUALITY	0.38 ± 0,03 mm ■ mrad	0.38 ± 0,03 mm ■ mrad	0.38 ± 0,03 mm ■ mrad
WAVELENGTH SPECTRUM	1068 nm - 1072 nm	1068 nm - 1072 nm	1078 nm - 1082 nm
DIAMETER OF LASER LIGHT CABLE	10 µm	10 µm	20 µm
LENGTH OF LASER LIGHT CABLE	5 m	5 m	10 m

**STRUCTURAL DESIGN**

DIMENSIONS (W X H X D)	445 mm x 177 mm x 502 mm	445 mm x 177 mm x 502 mm	445 mm x 221.5 mm x 622.1 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	1	1	1

**INSTALLATION**

AMBIENT TEMPERATURE	5 °C - 40 °C	5 °C - 40 °C	5 °C - 40 °C
COOLING UNIT	Luft	Luft	Luft

**TruFiber 300 P  
compact (FD44-W)****TruFiber 301 P  
compact (FD44-A)****TruFiber 301 P  
compact (FD44-W)****LASER PARAMETERS**

LASER POWER AT THE LLK PLUG	300 W	300 W	300 W
TYPICAL POWER CONSTANCY AT RATED POWER	± 2 % (Spitzenwert)	± 2 % (Spitzenwert)	± 2 % (Spitzenwert)
CONTINUOUSLY ADJUSTABLE POWER RANGE	30 W - 300 W	30 W - 300 W	30 W - 300 W
BEAM QUALITY	0.38 ± 0,03 mm ■ mrad (für 20 µm LLK Ø) 0.38 ± 0,03 mm ■ mrad (für kollimierte Leistung) 2.1 ± 0.3 mm ■ mrad (für 50 µm LLK Ø)	3.3 ± 0.6 mm ■ mrad	3.3 ± 0.6 mm ■ mrad
WAVELENGTH SPECTRUM	1078 nm - 1082 nm	1078 nm - 1082 nm	1078 nm - 1082 nm
DIAMETER OF LASER LIGHT CABLE	20 µm 50 µm	100 µm	100 µm
LENGTH OF LASER LIGHT CABLE	10 m	10 m	10 m

**STRUCTURAL DESIGN**

DIMENSIONS (W X H X D)	445 mm x 133.4 mm x 681 mm	445 mm x 221.5 mm x 622.1 mm	445 mm x 133.4 mm x 681 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	1	1	1

**INSTALLATION**

AMBIENT TEMPERATURE	5 °C - 45 °C	5 °C - 40 °C	5 °C - 45 °C
COOLING UNIT	Wasser	Luft	Wasser

**TruFiber 303 P  
compact (FD44-W)****TruFiber 500 P  
compact (FD44-A)****TruFiber 500 P  
compact (FD44-W)****LASER PARAMETERS**

LASER POWER AT THE LLK PLUG	300 W	500 W	500 W
TYPICAL POWER CONSTANCY AT RATED POWER	± 2 % (Spitzenwert)	± 2 % (Spitzenwert)	± 2 % (Spitzenwert)
CONTINUOUSLY ADJUSTABLE POWER RANGE	30 W - 300 W	50 W - 500 W Low power mode 30 W - 300 W	50 W - 500 W Low power mode 30 W - 300 W
BEAM QUALITY	13 ± 4 mm ■ mrad	0.38 ± 0,03 mm ■ mrad (für 20 µm LLK Ø) 0.38 ± 0,03 mm ■ mrad (für kollimierte Leistung) 2.1 ± 0.3 mm ■ mrad (für 50 µm LLK Ø)	0.38 ± 0,03 mm ■ mrad (für 20 µm LLK Ø) 0.38 ± 0,03 mm ■ mrad (für kollimierte Leistung) 2.1 ± 0.3 mm ■ mrad (für 50 µm LLK Ø)
WAVELENGTH SPECTRUM	1078 nm - 1082 nm	1078 nm - 1082 nm	1078 nm - 1082 nm
DIAMETER OF LASER LIGHT CABLE	300 µm	20 µm 50 µm	20 µm 50 µm
LENGTH OF LASER LIGHT CABLE	10 m	10 m	15 m (für 20 µm LLK Ø) 15 m (für kollimierte Leistung) 20 m (für 50 µm LLK Ø)

**STRUCTURAL DESIGN**

DIMENSIONS (W X H X D)	445 mm x 133.4 mm x 681 mm	445 mm x 221.5 mm x 622.1 mm	445 mm x 133.4 mm x 681 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	1	1	1

**INSTALLATION**

AMBIENT TEMPERATURE	5 °C - 45 °C	5 °C - 40 °C	5 °C - 45 °C
COOLING UNIT	Wasser	Luft	Wasser

**TruFiber 501 P  
compact (FD44-W)****TruFiber 503 P  
compact (FD44-W)****TruFiber 1000 P  
compact (FD44-W)****LASER PARAMETERS**

LASER POWER AT THE LLK PLUG	500 W	500 W	1000 W
TYPICAL POWER CONSTANCY AT RATED POWER	± 2 % (Spitzenwert)	± 2 % (Spitzenwert)	± 2 % (Spitzenwert)
CONTINUOUSLY ADJUSTABLE POWER RANGE	50 W - 500 W Low power mode 30 W - 300 W	50 W - 500 W Low power mode 30 W - 300 W	100 W - 1000 W Low power mode 30 W - 300 W
BEAM QUALITY	3.3 ± 0.6 mm ■ mrad	13 ± 4 mm ■ mrad	0.38 ± 0,03 mm ■ mrad (für 20 µm LLK Ø) 2.1 ± 0.3 mm ■ mrad (für 50 µm LLK Ø)
WAVELENGTH SPECTRUM	1078 nm - 1082 nm	1078 nm - 1082 nm	1078 nm - 1082 nm
DIAMETER OF LASER LIGHT CABLE	100 µm	300 µm	20 µm 50 µm
LENGTH OF LASER LIGHT CABLE	20 m	20 m	15 m 20 m

**STRUCTURAL DESIGN**

DIMENSIONS (W X H X D)	445 mm x 133.4 mm x 681 mm	445 mm x 133.4 mm x 681 mm	445 mm x 177 mm x 833 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	1	1	1

**INSTALLATION**

**TruFiber 501 P  
compact (FD44-W)****TruFiber 503 P  
compact (FD44-W)****TruFiber 1000 P  
compact (FD44-W)**

AMBIENT TEMPERATURE

5 °C - 45 °C

5 °C - 45 °C

5 °C - 45 °C

COOLING UNIT

Wasser

Wasser

Wasser

**TruFiber 1001 P  
compact (FD44-W)****TruFiber 1003 P  
compact (FD44-W)****TruFiber 1500 P  
compact (FD44-W)****LASER PARAMETERS**

LASER POWER AT THE LLK PLUG

1000 W

1000 W

1500 W

TYPICAL POWER CONSTANCY AT  
RATED POWER

± 2 % (Spitzenwert)

± 2 % (Spitzenwert)

± 2 % (Spitzenwert)

CONTINUOUSLY ADJUSTABLE  
POWER RANGE100 W - 1000 W  
Low power mode 30 W - 300 W100 W - 1000 W  
Low power mode 30 W - 300 W150 W - 1500 W  
Low power mode 30 W - 300 W

BEAM QUALITY

3.3 ± 0.6 mm ■ mrad

13 ± 4 mm ■ mrad

0.38 ± 0,03 mm ■ mrad (für 20 µm  
LLK Ø)  
2.1 ± 0.3 mm ■ mrad (für 50 µm  
LLK Ø)

WAVELENGTH SPECTRUM

1078 nm - 1082 nm

1078 nm - 1082 nm

1073 nm - 1077 nm

DIAMETER OF LASER LIGHT CABLE

100 µm

300 µm

20 µm  
50 µm

LENGTH OF LASER LIGHT CABLE

20 m

20 m

15 m (für 20 µm LLK Ø)  
20 m (für 50 µm LLK Ø)**STRUCTURAL DESIGN**

DIMENSIONS (W X H X D)

445 mm x 177 mm x 833 mm

445 mm x 177 mm x 833 mm

445 mm x 177 mm x 833 mm

MAXIMUM NUMBER OF LASER  
LIGHT CABLES

1

1

1

**INSTALLATION**

AMBIENT TEMPERATURE

5 °C - 45 °C

5 °C - 45 °C

5 °C - 45 °C

COOLING UNIT

Wasser

Wasser

Wasser

**TruFiber 1501 P  
compact (FD44-W)****TruFiber 1503 P  
compact (FD44-W)****TruFiber 2000 P  
compact (FD44-W)****LASER PARAMETERS**

LASER POWER AT THE LLK PLUG

1500 W

1500 W

2000 W

TYPICAL POWER CONSTANCY AT  
RATED POWER

± 2 % (Spitzenwert)

± 2 % (Spitzenwert)

± 2 % (Spitzenwert)

CONTINUOUSLY ADJUSTABLE  
POWER RANGE150 W - 1500 W  
Low power mode 30 W - 300 W150 W - 1500 W  
Low power mode 30 W - 300 W200 W - 2000 W  
Low power mode 30 W - 300 W

BEAM QUALITY

3.3 ± 0.6 mm ■ mrad

13 ± 4 mm ■ mrad

0.38 ± 0,03 mm ■ mrad (für 25 µm  
LLK Ø)  
2.1 ± 0.3 mm ■ mrad (für 50 µm  
LLK Ø)

WAVELENGTH SPECTRUM

1073 nm - 1077 nm

1073 nm - 1077 nm

1073 nm - 1077 nm

DIAMETER OF LASER LIGHT CABLE

100 µm

300 µm

25 µm  
50 µm

LENGTH OF LASER LIGHT CABLE

20 m

20 m

10 m (für 25 µm LLK Ø)  
20 m (für 50 µm LLK Ø)**STRUCTURAL DESIGN**

**TruFiber 1501 P  
compact (FD44-W)****TruFiber 1503 P  
compact (FD44-W)****TruFiber 2000 P  
compact (FD44-W)**

DIMENSIONS (W X H X D)	445 mm x 177 mm x 833 mm	445 mm x 177 mm x 833 mm	445 mm x 266 mm x 833 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	1	1	1

**INSTALLATION**

AMBIENT TEMPERATURE	5 °C - 45 °C	5 °C - 45 °C	5 °C - 45 °C
COOLING UNIT	Wasser	Wasser	Wasser

**TruFiber 2001 P  
compact (FD44-W)****TruFiber 2003 P  
compact (FD44-W)****LASER PARAMETERS**

LASER POWER AT THE LLK PLUG	2000 W	2000 W
TYPICAL POWER CONSTANCY AT RATED POWER	± 2 % (Spitzenwert)	± 2 % (Spitzenwert)
CONTINUOUSLY ADJUSTABLE POWER RANGE	200 W - 2000 W Low power mode 30 W - 300 W	200 W - 2000 W Low power mode 30 W - 300 W
BEAM QUALITY	3.3 ± 0.6 mm ▪ mrad	13 ± 4 mm ▪ mrad
WAVELENGTH SPECTRUM	1073 nm - 1077 nm	1073 nm - 1077 nm
DIAMETER OF LASER LIGHT CABLE	100 µm	300 µm
LENGTH OF LASER LIGHT CABLE	20 m	20 m

**STRUCTURAL DESIGN**

DIMENSIONS (W X H X D)	445 mm x 266 mm x 833 mm	445 mm x 266 mm x 833 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	1	1

**INSTALLATION**

AMBIENT TEMPERATURE	5 °C - 45 °C	5 °C - 45 °C
COOLING UNIT	Wasser	Wasser