

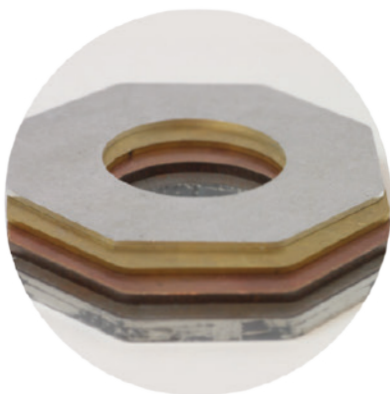


TruFiber P Compact

Easy integration into our customers' equipment; these industrial Lasers come complete with their own internal control system.

These versatile Lasers offer a number of benefits including output power flexibility and a range of beam delivery, control and interface options.

Optimised for...



Cutting
Aluminium, Mild Steel,
Brass, Copper &
Stainless Steel



Flat Sheet Cutting
Stainless Steel



**3D Printing / Additive
Manufacturing**
Metal Powders



**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 % (peak)	± 2 % (peak)	± 2 % (peak)
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 THE 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	Air	Air	Air

**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 % (peak)	± 2 % (peak)	± 2 % (peak)
CONTINUOUSLY ADJUSTABLE POWER RANGE	30 W - 300 W	30 W - 300 W	30 W - 300 W
BEAM QUALITY	0.38 ± 0,03 mm ■ mrad (for 20 µm LLK Ø) 0.38 ± 0,03 mm ■ mrad (for collimated output) 2.1 ± 0.3 mm ■ mrad (for 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 THE 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	Water	Air	Water

**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 % (peak)	± 2 % (peak)	± 2 % (peak)
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 (for 20 µm LLK Ø) 0.38 ± 0,03 mm ■ mrad (for collimated output) 2.1 ± 0.3 mm ■ mrad (for 50 µm LLK Ø)	0.38 ± 0,03 mm ■ mrad (for 20 µm LLK Ø) 0.38 ± 0,03 mm ■ mrad (for collimated output) 2.1 ± 0.3 mm ■ mrad (for 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 THE LASER LIGHT CABLE	10 m	10 m	15 m (for 20 µm LLK Ø) 15 m (for collimated output) 20 m (for 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	Water	Air	Water

**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 % (peak)	± 2 % (peak)	± 2 % (peak)
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 (for 20 µm LLK Ø) 2.1 ± 0.3 mm ■ mrad (for 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 THE 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

Water

Water

Water

**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 % (peak)

± 2 % (peak)

± 2 % (peak)

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 (for 20 µm
LLK Ø)
2.1 ± 0.3 mm ■ mrad (for 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 µmLENGTH OF THE LASER LIGHT
CABLE

20 m

20 m

15 m (for 20 µm LLK Ø)
20 m (for 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

Water

Water

Water

**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 % (peak)

± 2 % (peak)

± 2 % (peak)

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 (for 25 µm
LLK Ø)
2.1 ± 0.3 mm ■ mrad (for 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 µmLENGTH OF THE LASER LIGHT
CABLE

20 m

20 m

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

TruFiber 1501 P compact (FD44-W)

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

TruFiber 1503 P compact (FD44-W)

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

TruFiber 2000 P compact (FD44-W)

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

INSTALLATION

AMBIENT TEMPERATURE	5 °C - 45 °C	5 °C - 45 °C	5 °C - 45 °C
COOLING	Water	Water	Water

TruFiber 2001 P compact (FD44-W)

LASER PARAMETERS

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

TruFiber 2003 P compact (FD44-W)

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

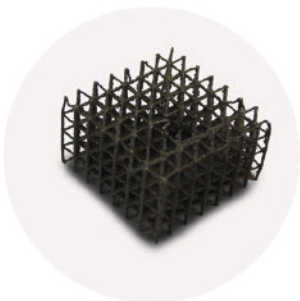
STRUCTURAL DESIGN

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	Water	Water

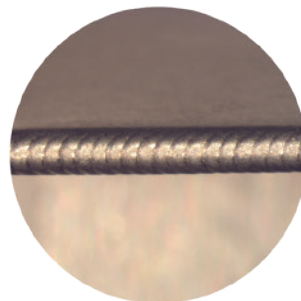
Applications



3D Printing / Additive Manufacturing
Metal Powders



Cutting
Brass, Aluminium,
Copper, Mild Steel &
Stainless Steel



Welding
Stainless Steel



Cutting
Mild Steel



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