



# TruFiber S

Technical data



**TruFiber 3000 S  
(FD43)****TruFiber 4000 S  
(FD43)****TruFiber 5000 S  
(FD43)****LASER PARAMETERS**

LASER POWER	3000 W <sup>1</sup>	4000 W <sup>1</sup>	5000 W <sup>1</sup>
TYPICAL POWER CONSTANCY AT RATED POWER OVER 8 HOURS AT CONSTANT AMBIENT TEMPERATURE	± 0.5 %	± 0.5 %	± 0.5 %
MAXIMUM POWER CONSTANCY AT RATED POWER OVER 8 HOURS AT CONSTANT AMBIENT TEMPERATURE	± 1 %	± 1 %	± 1 %
CONTINUOUSLY ADJUSTABLE POWER RANGE	60 W - 3000 W with active power regulation	80 W - 4000 W with active power regulation	100 W - 5000 W with active power regulation
BEAM QUALITY	2 mm ■ mrad	2 mm ■ mrad	2 mm ■ mrad
WAVELENGTH	1071 nm	1071 nm	1071 nm
DIAMETER OF LASER LIGHT CABLE	≥ 50 µm	≥ 50 µm	≥ 50 µm

**STRUCTURAL DESIGN**

WIDTH	600 mm	600 mm	600 mm
HEIGHT	1280 mm	1280 mm	1280 mm
DEPTH	980 mm	980 mm	980 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	2	2	2

**INSTALLATION**

AMBIENT TEMPERATURE	5 °C - 45 °C	5 °C - 45 °C	5 °C - 45 °C
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**TruFiber 6000 S (FD43)****LASER PARAMETERS**

LASER POWER	6000 W <sup>1</sup>
TYPICAL POWER CONSTANCY AT RATED POWER OVER 8 HOURS AT CONSTANT AMBIENT TEMPERATURE	± 0.5 %
MAXIMUM POWER CONSTANCY AT RATED POWER OVER 8 HOURS AT CONSTANT AMBIENT TEMPERATURE	± 1 %
CONTINUOUSLY ADJUSTABLE POWER RANGE	120 W - 6000 W with active power regulation
BEAM QUALITY	2 mm ■ mrad
WAVELENGTH	1071 nm
DIAMETER OF LASER LIGHT CABLE	≥ 50 µm

**STRUCTURAL DESIGN**

WIDTH	600 mm
HEIGHT	1280 mm
DEPTH	980 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	2

**INSTALLATION**

AMBIENT TEMPERATURE	5 °C - 45 °C
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## Footnotes

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1 — The laser power at the workpiece may deviate from the rated power depending on the optics configuration.