



# TruPulse

Technical data

**TruPulse 21****TruPulse 33****TruPulse 44****LASER PARAMETERS**

LASER POWER AT THE WORKPIECE	20 W	30 W	40 W
MAX. PEAK PULSE POWER	1.5 kW	3 kW	3 kW
BEAM QUALITY	4 mm ■ mrad	12 mm ■ mrad	16 mm ■ mrad
WAVELENGTH	1064 nm	1064 nm	1064 nm
ADJUSTABLE PULSE DURATION	0.2 ms - 50 ms	0.2 ms - 50 ms	0.2 ms - 50 ms
MAX. PULSE REPETITION FREQUENCY	909 Hz	909 Hz	909 Hz
MAX. PULSE ENERGY	15 J	30 J	30 J
MIN. LASER LIGHT CABLE DIAMETER	100 µm	300 µm	400 µm

**STRUCTURAL DESIGN**

DIMENSIONS, BASIC VERSION (W X H X D)	-	-	-
DIMENSIONS, EXTENDED VERSION (W X H X D)	-	-	-
DIMENSIONS (W X H X D)	485 mm x 700 mm x 800 mm	485 mm x 700 mm x 800 mm	485 mm x 700 mm x 800 mm
MAX. NUMBER OF LASER LIGHT CABLES	3	3	3

**INSTALLATION**

PROTECTION CLASS (AIR COOLING)	IP22	IP22	IP22
PROTECTION CLASS (WATER COOLING)	IP54	IP54	IP54
AMBIENT TEMPERATURE (WATER COOLING)	10 °C - 40 °C	10 °C - 40 °C	10 °C - 40 °C

**TruPulse 62****TruPulse 74****TruPulse 103****LASER PARAMETERS**

LASER POWER AT THE WORKPIECE	60 W 65 W	70 W	90 W 95 W
MAX. PEAK PULSE POWER	3 kW 5 kW	4 kW 6 kW	5 kW 6 kW 8 kW
BEAM QUALITY	8 mm ■ mrad	16 mm ■ mrad	12 mm ■ mrad
WAVELENGTH	1064 nm	1064 nm	1064 nm
ADJUSTABLE PULSE DURATION	0.2 ms - 50 ms	0.3 ms - 50 ms	0.3 ms - 50 ms
MAX. PULSE REPETITION FREQUENCY	909 Hz	833 Hz	833 Hz
MAX. PULSE ENERGY	20 J 50 J	30 J 60 J	30 J 60 J 90 J
MIN. LASER LIGHT CABLE DIAMETER	200 µm	400 µm	300 µm

**STRUCTURAL DESIGN**

DIMENSIONS, BASIC VERSION (W X H X D)	980 mm x 1220 mm x 505 mm	980 mm x 1220 mm x 505 mm	980 mm x 1220 mm x 505 mm
DIMENSIONS, EXTENDED VERSION (W X H X D)	980 mm x 1220 mm x 715 mm	980 mm x 1220 mm x 715 mm	980 mm x 1220 mm x 715 mm

**TruPulse 62****TruPulse 74****TruPulse 103**

DIMENSIONS (W X H X D)  
 MAX. NUMBER OF LASER LIGHT  
 CABLES

-  
 6

-  
 6

-  
 6

**INSTALLATION**

PROTECTION CLASS (AIR  
 COOLING)  
 PROTECTION CLASS (WATER  
 COOLING)  
 AMBIENT TEMPERATURE (WATER  
 COOLING)

IP22  
 IP54  
 10 °C - 40 °C

IP22  
 IP54  
 10 °C - 40 °C

IP22  
 IP54  
 10 °C - 40 °C

**TruPulse 106****TruPulse 124****TruPulse 156****LASER PARAMETERS**

LASER POWER AT THE WORKPIECE  
 MAX. PEAK PULSE POWER  
 BEAM QUALITY  
 WAVELENGTH  
 ADJUSTABLE PULSE DURATION  
 MAX. PULSE REPETITION  
 FREQUENCY  
 MAX. PULSE ENERGY  
 MIN. LASER LIGHT CABLE  
 DIAMETER

110 W  
 4 kW  
 25 mm ■ mrad  
 1064 nm  
 0.3 ms - 50 ms  
 833 Hz  
 30 J  
 600 µm

110 W  
 125 W  
 140 W  
 6 kW  
 9 kW  
 16 mm ■ mrad  
 1064 nm  
 0.3 ms - 50 ms  
 833 Hz  
 30 J  
 70 J  
 90 J  
 400 µm

140 W  
 150 W  
 160 W  
 6 kW  
 10 kW  
 25 mm ■ mrad  
 1064 nm  
 0.3 ms - 50 ms  
 833 Hz  
 30 J  
 80 J  
 120 J  
 600 µm

**STRUCTURAL DESIGN**

DIMENSIONS, BASIC VERSION (W X  
 H X D)  
 DIMENSIONS, EXTENDED VERSION  
 (W X H X D)  
 DIMENSIONS (W X H X D)  
 MAX. NUMBER OF LASER LIGHT  
 CABLES

-  
 -  
 980 mm x 1220 mm x 505 mm  
 3

980 mm x 1220 mm x 505 mm  
 980 mm x 1220 mm x 715 mm  
 -  
 6

980 mm x 1220 mm x 505 mm  
 980 mm x 1220 mm x 715 mm  
 -  
 6

**INSTALLATION**

PROTECTION CLASS (AIR  
 COOLING)  
 PROTECTION CLASS (WATER  
 COOLING)  
 AMBIENT TEMPERATURE (WATER  
 COOLING)

IP22  
 IP54  
 10 °C - 40 °C

IP22  
 IP54  
 10 °C - 40 °C

IP22  
 IP54  
 10 °C - 40 °C

**TruPulse 203****TruPulse 304****TruPulse 556****LASER PARAMETERS**

LASER POWER AT THE WORKPIECE

200 W

300 W

530 W

**TruPulse 203****TruPulse 304****TruPulse 556**

MAX. PEAK PULSE POWER	6 kW 8 kW	10 kW	10 kW
BEAM QUALITY	12 mm ■ mrad	16 mm ■ mrad	25 mm ■ mrad
WAVELENGTH	1064 nm	1064 nm	1064 nm
ADJUSTABLE PULSE DURATION	0.3 ms - 50 ms	0.3 ms - 50 ms	0.3 ms - 50 ms
MAX. PULSE REPETITION FREQUENCY	833 Hz	833 Hz	833 Hz
MAX. PULSE ENERGY	55 J 90 J	60 J 90 J	60 J 100 J
MIN. LASER LIGHT CABLE DIAMETER	300 µm	400 µm	600 µm

**STRUCTURAL DESIGN**

DIMENSIONS, BASIC VERSION (W X H X D)	-	1500 mm x 1370 mm x 730 mm	1500 mm x 1370 mm x 730 mm
DIMENSIONS, EXTENDED VERSION (W X H X D)	-	1500 mm x 1370 mm x 990 mm	1500 mm x 1370 mm x 990 mm
DIMENSIONS (W X H X D)	1500 mm x 1370 mm x 730 mm	-	-
MAX. NUMBER OF LASER LIGHT CABLES	6	6	6

**INSTALLATION**

PROTECTION CLASS (AIR COOLING)	-	-	-
PROTECTION CLASS (WATER COOLING)	IP54	IP54	IP54
AMBIENT TEMPERATURE (WATER COOLING)	10 °C - 40 °C	10 °C - 40 °C	10 °C - 40 °C