TruPulse

Technical data

TRUMPF

	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)	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 106	TruPulse 124	TruPulse 156
LASER PARAMETERS			
LASER POWER AT THE WORKPIECE	110 W	110 W 125 W 140 W	140 W 150 W 160 W
MAX. PEAK PULSE POWER	4 kW	6 kW 9 kW	6 kW 10 kW
BEAM QUALITY	25 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	30 J	30 J 70 J 90 J	30 J 80 J 120 J
MIN. LASER LIGHT CABLE DIAMETER	600 µm	400 µm	600 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
DIMENSIONS, EXTENDED VERSION (W X H X D)	-	980 mm x 1220 mm x 715 mm	980 mm x 1220 mm x 715 mm
DIMENSIONS (W X H X D)	980 mm x 1220 mm x 505 mm	-	-
MAX. NUMBER OF LASER LIGHT CABLES	3	6	6
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 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