TruDisk with green wavelength

Technical data

TRUMPF

	TruDisk Pulse 221	TruDisk Pulse 421	TruDisk 1020
LASER PARAMETERS			
LASER POWER	200 W [1]	400 W [1]	1000 W [1]
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	-	-	30 W - 1000 W with active power regulation
MAXIMUM PEAK PULSE POWER WITH LLK LENGTH 10 M	2 kW	4 kW	-
MAXIMUM PULSE ENERGY WITH LLK LENGTH 10 M	20 J	40 J	-
MAXIMUM GATING RATIO	10 %	10 %	-
ADJUSTABLE PULSE DURATION	0.3 ms - 50 ms	0.3 ms - 50 ms	-
BEAM QUALITY AT THE INPUT COUPLING IN THE LLK	4 mm ▪ mrad	4 mm ▪ mrad	2 mm ▪ mrad
NUMERICAL APERTURE ON THE OUTPUT COUPLING AFTER LLK	0.1	0.1	0.1
WAVELENGTH	515 nm	515 nm	515 nm
MINIMUM LASER LIGHT CABLE DIAMETER	100 µm	100 µm	50 µm
STRUCTURAL DESIGN			
WIDTH	1340 mm	1340 mm	1340 mm
HEIGHT	1430 mm	1430 mm	1430 mm
DEPTH	725 mm	725 mm	725 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	2	2	2
INSTALLATION			
PROTECTION CLASS	IP54	IP54	IP54
AMBIENT TEMPERATURE	10 °C - 50 °C	10 °C - 50 °C	10 °C - 50 °C

	TruDisk 2021	TruDisk 3022
LASER PARAMETERS		
LASER POWER	2000 W [1]	3000 W [1]
TYPICAL POWER CONSTANCY AT RATED POWER OVER 8 HOURS AT CONSTANT AMBIENT TEMPERATURE	± 0.5 %	± 0.5 %
MAXIMUM POWER CONSTANCY AT RATED POWER OVER 8 HOURS AT CONSTANT AMBIENT TEMPERATURE	± 1 %	± 1 %
CONTINUOUSLY ADJUSTABLE POWER RANGE	60 W - 2000 W with active power regulation	90 W - 3000 W with active power regulation
MAXIMUM PEAK PULSE POWER WITH LLK LENGTH 10 M	-	-

	TruDisk 2021	TruDisk 3022
MAXIMUM PULSE ENERGY WITH LLK LENGTH 10 M	-	-
MAXIMUM GATING RATIO	-	-
ADJUSTABLE PULSE DURATION	-	-
BEAM QUALITY AT THE INPUT COUPLING IN THE LLK	4 mm ▪ mrad	6 mm ▪ mrad
NUMERICAL APERTURE ON THE OUTPUT COUPLING AFTER LLK	0.1	0.1
WAVELENGTH	515 nm	515 nm
MINIMUM LASER LIGHT CABLE DIAMETER	100 µm	150 µm
STRUCTURAL DESIGN		
WIDTH	1340 mm	1340 mm
HEIGHT	1430 mm	1430 mm
DEPTH	725 mm	725 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	2	2
INSTALLATION		
PROTECTION CLASS	IP54	IP54
AMBIENT TEMPERATURE	10 °C - 50 °C	10 °C - 50 °C

Footnotes

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