TruDisk

Technical data

TRUMPF

	TruDisk 1000 (new generation)	TruDisk 2000 (new generation)	TruDisk 3000
LASER PARAMETERS			
LASER POWER ON THE WORKPIECE	1000 W	2000 W	3000 W
TYPICAL POWER CONSTANCY AT RATED POWER	± 1 % with active power regulation	± 1 % with active power regulation	± 1 % with active power regulation
CONTINUOUSLY ADJUSTABLE POWER RANGE	60 W - 1000 W with active power regulation	60 W - 2000 W with active power regulation	80 W - 3000 W with active power regulation
BEAM QUALITY AT THE INPUT COUPLING IN THE LLK	2 mm ▪ mrad	2 mm ▪ mrad	2 mm ▪ mrad
NUMERICAL APERTURE ON THE OUTPUT COUPLING AFTER LLK	0.1	0.1	0.1
WAVELENGTH	1030 nm	1030 nm	1030 nm
MINIMUM LASER LIGHT CABLE DIAMETER	50 µm	50 µm	50 µm
STRUCTURAL DESIGN			
WIDTH	1175 mm	1175 mm	1175 mm
HEIGHT	1430 mm	1430 mm	1430 mm
DEPTH	725 mm	725 mm	725 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	2	2	2
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	4	4	4
INSTALLATION			
PROTECTION CLASS	IP54	IP54	IP54
AMBIENT TEMPERATURE	10 °C - 50 °C	10 °C - 50 °C	10 °C - 50 °C

	TruDisk 3001	TruDisk 3002	TruDisk 3006
LASER PARAMETERS			
LASER POWER ON THE WORKPIECE	3000 W	3000 W	3000 W
TYPICAL POWER CONSTANCY AT RATED POWER	± 1 % with active power regulation	± 1 % with active power regulation	± 1 % with active power regulation
CONTINUOUSLY ADJUSTABLE POWER RANGE	80 W - 3000 W with active power regulation	80 W - 3000 W with active power regulation	80 W - 3000 W with active power regulation
BEAM QUALITY AT THE INPUT COUPLING IN THE LLK	4 mm ▪ mrad	8 mm ▪ mrad	25 mm ▪ mrad
NUMERICAL APERTURE ON THE OUTPUT COUPLING AFTER LLK	0.1	0.1	0.1
WAVELENGTH	1030 nm	1030 nm	1030 nm
MINIMUM LASER LIGHT CABLE DIAMETER	100 µm	200 µm	600 µm
STRUCTURAL DESIGN			
WIDTH	1175 mm	1175 mm	1175 mm
HEIGHT	1430 mm	1430 mm	1430 mm
DEPTH	725 mm	725 mm	725 mm

	TruDisk 3001	TruDisk 3002	TruDisk 3006
MAXIMUM NUMBER OF LASER LIGHT CABLES	2	2	2
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	4	4	4
INSTALLATION			
PROTECTION CLASS	IP54	IP54	IP54
AMBIENT TEMPERATURE	10 °C - 50 °C	10 °C - 50 °C	10 °C - 50 °C

	TruDisk 4000	TruDisk 4001	TruDisk 4002
LASER PARAMETERS			
LASER POWER ON THE WORKPIECE	4000 W	4000 W	4000 W
TYPICAL POWER CONSTANCY AT RATED POWER	± 1 % with active power regulation	± 1 % with active power regulation	± 1 % with active power regulation
CONTINUOUSLY ADJUSTABLE POWER RANGE	80 W - 4000 W with active power regulation	80 W - 4000 W with active power regulation	80 W - 4000 W with active power regulation
BEAM QUALITY AT THE INPUT COUPLING IN THE LLK	2 mm ▪ mrad	4 mm ▪ mrad	8 mm ▪ mrad
NUMERICAL APERTURE ON THE OUTPUT COUPLING AFTER LLK	0.1	0.1	0.1
WAVELENGTH	1030 nm	1030 nm	1030 nm
MINIMUM LASER LIGHT CABLE DIAMETER	50 µm	100 µm	200 µm
STRUCTURAL DESIGN			
WIDTH	1175 mm	1175 mm	1175 mm
HEIGHT	1430 mm	1430 mm	1430 mm
DEPTH	725 mm	725 mm	725 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	2	2	2
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	4	4	4
INSTALLATION			
PROTECTION CLASS	IP54	IP54	IP54
AMBIENT TEMPERATURE	10 °C - 50 °C	10 °C - 50 °C	10 °C - 50 °C

	TruDisk 4006	TruDisk 5001	TruDisk 5002
LASER PARAMETERS			
LASER POWER ON THE WORKPIECE	4000 W	5000 W	5000 W
TYPICAL POWER CONSTANCY AT RATED POWER	± 1 % with active power regulation	± 1 % with active power regulation	± 1 % with active power regulation
CONTINUOUSLY ADJUSTABLE POWER RANGE	80 W - 4000 W with active power regulation	120 W - 5000 W with active power regulation	120 W - 5000 W with active power regulation
BEAM QUALITY AT THE INPUT COUPLING IN THE LLK	25 mm ▪ mrad	4 mm ▪ mrad	8 mm ▪ mrad

	TruDisk 4006	TruDisk 5001	TruDisk 5002
NUMERICAL APERTURE ON THE OUTPUT COUPLING AFTER LLK	0.1	0.1	0.1
WAVELENGTH	1030 nm	1030 nm	1030 nm
MINIMUM LASER LIGHT CABLE DIAMETER	600 µm	100 µm	200 µm
STRUCTURAL DESIGN			
WIDTH	1175 mm	1175 mm	1175 mm
HEIGHT	1430 mm	1430 mm	1430 mm
DEPTH	725 mm	725 mm	725 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	2	2	2
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	4	4	4
INSTALLATION			
PROTECTION CLASS	IP54	IP54	IP54
AMBIENT TEMPERATURE	10 °C - 50 °C	10 °C - 50 °C	10 °C - 50 °C

	TruDisk 5006	TruDisk 6001 (new generation)	TruDisk 6002 (new generation)
LASER PARAMETERS			
LASER POWER ON THE WORKPIECE	5000 W	6000 W	6000 W
TYPICAL POWER CONSTANCY AT RATED POWER	± 1 % with active power regulation	± 1 % with active power regulation	± 1 % with active power regulation
CONTINUOUSLY ADJUSTABLE POWER RANGE	120 W - 5000 W with active power regulation	120 W - 6000 W with active power regulation	120 W - 6000 W with active power regulation
BEAM QUALITY AT THE INPUT COUPLING IN THE LLK	25 mm ▪ mrad	4 mm ▪ mrad	8 mm ▪ mrad
NUMERICAL APERTURE ON THE OUTPUT COUPLING AFTER LLK	0.1	0.1	0.1
WAVELENGTH	1030 nm	1030 nm	1030 nm
MINIMUM LASER LIGHT CABLE DIAMETER	600 µm	100 µm	200 µm
STRUCTURAL DESIGN			
WIDTH	1175 mm	1175 mm	1175 mm
HEIGHT	1430 mm	1430 mm	1430 mm
DEPTH	725 mm	725 mm	725 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	2	2	2
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	4	4	4
INSTALLATION			
PROTECTION CLASS	IP54	IP54	IP54
AMBIENT TEMPERATURE	10 °C - 50 °C	10 °C - 50 °C	10 °C - 50 °C

	TruDisk 6006 (new generation)	TruDisk 8001	TruDisk 10001
LASER PARAMETERS			
LASER POWER ON THE WORKPIECE	6000 W	8000 W	10000 W
TYPICAL POWER CONSTANCY AT RATED POWER	± 1 % with active power regulation	± 1 % with active power regulation	± 1 % with active power regulation
CONTINUOUSLY ADJUSTABLE POWER RANGE	120 W - 6000 W with active power regulation	160 W with active power regulation	240 W - 10000 W with active power regulation
BEAM QUALITY AT THE INPUT COUPLING IN THE LLK	25 mm ▪ mrad	4 mm ▪ mrad	4 mm ▪ mrad
NUMERICAL APERTURE ON THE OUTPUT COUPLING AFTER LLK	0.1	0.1	0.1
WAVELENGTH	1030 nm	1030 nm	1030 nm
MINIMUM LASER LIGHT CABLE DIAMETER	600 µm	100 µm	100 µm
STRUCTURAL DESIGN			
WIDTH	1175 mm	1175 mm	1990 mm
HEIGHT	1430 mm	1430 mm	1550 mm
DEPTH	725 mm	725 mm	1200 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	2	2	4
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	4	4	6
INSTALLATION			
PROTECTION CLASS	IP54	IP54	IP54
AMBIENT TEMPERATURE	10 °C - 50 °C	10 °C - 50 °C	10 °C - 50 °C

	TruDisk 10002	TruDisk 10003	TruDisk 12001
LASER PARAMETERS			
LASER POWER ON THE WORKPIECE	10000 W	10000 W	12000 W
TYPICAL POWER CONSTANCY AT RATED POWER	± 1 % with active power regulation	± 1 % with active power regulation	± 1 % bei aktiver Leistungsregelung
CONTINUOUSLY ADJUSTABLE POWER RANGE	200 W - 10000 W with active power regulation	200 W - 10000 W with active power regulation	240 W - 12000 W bei aktiver Leistungsregelung
BEAM QUALITY AT THE INPUT COUPLING IN THE LLK	8 mm ▪ mrad	12 mm ▪ mrad	4 mm ▪ mrad
NUMERICAL APERTURE ON THE OUTPUT COUPLING AFTER LLK	0.1	0.1	0.1
WAVELENGTH	1030 nm	1030 nm	1030 nm
MINIMUM LASER LIGHT CABLE DIAMETER	200 µm	300 µm	100 µm
STRUCTURAL DESIGN			
WIDTH	1990 mm	1990 mm	1990 mm
HEIGHT	1550 mm	1550 mm	1550 mm
DEPTH	1200 mm	1200 mm	1200 mm

	TruDisk 10002	TruDisk 10003	TruDisk 12001
MAXIMUM NUMBER OF LASER LIGHT CABLES	4	4	4
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	6	6	6
INSTALLATION			
PROTECTION CLASS	IP54	IP54	IP54
AMBIENT TEMPERATURE	10 °C - 50 °C	10 °C - 50 °C	10 °C - 50 °C

	TruDisk 12002	TruDisk 12003	TruDisk 16002
LASER PARAMETERS			
LASER POWER ON THE WORKPIECE	12000 W	12000 W	16000 W
TYPICAL POWER CONSTANCY AT RATED POWER	± 1 % with active power regulation	± 1 % with active power regulation	± 1 % with active power regulation
CONTINUOUSLY ADJUSTABLE POWER RANGE	240 W - 12000 W with active power regulation	240 W - 12000 W with active power regulation	320 W - 16000 W
BEAM QUALITY AT THE INPUT COUPLING IN THE LLK	8 mm ▪ mrad	12 mm ▪ mrad	8 mm ▪ mrad
NUMERICAL APERTURE ON THE OUTPUT COUPLING AFTER LLK	0.1	0.1	0.1
WAVELENGTH	1030 nm	1030 nm	1030 nm
MINIMUM LASER LIGHT CABLE DIAMETER	200 µm	300 µm	200 µm
STRUCTURAL DESIGN			
WIDTH	1990 mm	1990 mm	2800 mm
HEIGHT	1550 mm	1550 mm	1550 mm
DEPTH	1200 mm	1200 mm	1400 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	4	4	6
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	6	6	-
INSTALLATION			
PROTECTION CLASS	IP54	IP54	IP54
AMBIENT TEMPERATURE	10 °C - 50 °C	10 °C - 50 °C	10 °C - 50 °C

	TruDisk 16003
LASER PARAMETERS	
LASER POWER ON THE WORKPIECE	16000 W
TYPICAL POWER CONSTANCY AT RATED POWER	± 1 % with active power regulation
CONTINUOUSLY ADJUSTABLE POWER RANGE	320 W - 16000 W
BEAM QUALITY AT THE INPUT COUPLING IN THE LLK	12 mm ▪ mrad
NUMERICAL APERTURE ON THE OUTPUT COUPLING AFTER LLK	0.1
WAVELENGTH	1030 nm

TruDisk 16003

MINIMUM LASER LIGHT CABLE DIAMETER	300 µm
STRUCTURAL DESIGN	
WIDTH	2800 mm
HEIGHT	1550 mm
DEPTH	1400 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	6
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	-
INSTALLATION	
PROTECTION CLASS	IP54
AMBIENT TEMPERATURE	10 °C - 50 °C