



TruDisk

Technical data

TruDisk 1000**TruDisk 2000****TruDisk 3001****LASER PARAMETERS**

LASER POWER ON THE WORKPIECE	1000 W	2000 W	3000 W
TYPICAL POWER CONSTANCY AT RATED POWER	-	-	-
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 - 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	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	50 µm	50 µm	100 µm
TYP. LEISTUNGSKONSTANZ BEI NENNLEISTUNG ÜBER 8 STD. BEI KONSTANTER UMGEBUNGSTEMPERATUR			
MAX. LEISTUNGSKONSTANZ BEI NENNLEISTUNG ÜBER 8 STD. BEI KONSTANTER UMGEBUNGSTEMPERATUR			

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 P**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
TYPICAL POWER CONSTANCY AT RATED POWER OVER 8 HOURS AT CONSTANT AMBIENT TEMPERATURE		± 0.5 %	

TruDisk 3001 P**TruDisk 3002****TruDisk 3006**

MAXIMUM POWER CONSTANCY AT RATED POWER OVER 8 HOURS AT CONSTANT AMBIENT TEMPERATURE		± 1 %	
CONTINUOUSLY ADJUSTABLE POWER RANGE	-	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
TYP. LEISTUNGSKONSTANZ BEI NENNLEISTUNG ÜBER 8 STD. BEI KONSTANTER UMGEBUNGSTEMPERATUR	± 1 %		
MAX. LEISTUNGSKONSTANZ BEI NENNLEISTUNG ÜBER 8 STD. BEI KONSTANTER UMGEBUNGSTEMPERATUR	± 2 %		

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	1	2	2
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	-	4	4

INSTALLATION

PROTECTION CLASS	IP54	IP54	IP54
AMBIENT TEMPERATURE	10 °C - 45 °C	10 °C - 50 °C	10 °C - 50 °C

TruDisk 4000**TruDisk 4001****TruDisk 4001 P****LASER PARAMETERS**

LASER POWER ON THE WORKPIECE	4000 W	4000 W	4000 W
TYPICAL POWER CONSTANCY AT RATED POWER	-	-	-
TYPICAL POWER CONSTANCY AT RATED POWER OVER 8 HOURS AT CONSTANT AMBIENT TEMPERATURE	± 0.5 %	± 0.5 %	± 1 %
MAXIMUM POWER CONSTANCY AT RATED POWER OVER 8 HOURS AT CONSTANT AMBIENT TEMPERATURE	± 1 %	± 1 %	± 2 %
CONTINUOUSLY ADJUSTABLE POWER RANGE	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	4 mm ■ mrad
NUMERICAL APERTURE ON THE OUTPUT COUPLING AFTER LLK	0.1	0.1	0.1

TruDisk 4000**TruDisk 4001****TruDisk 4001 P**

WAVELENGTH	1030 nm	1030 nm	1030 nm
MINIMUM LASER LIGHT CABLE DIAMETER	50 µm	100 µm	100 µm
TYP. LEISTUNGSKONSTANZ BEI NENNLEISTUNG ÜBER 8 STD. BEI KONSTANTER UMGEBUNGSTEMPERATUR			
MAX. LEISTUNGSKONSTANZ BEI NENNLEISTUNG ÜBER 8 STD. BEI KONSTANTER UMGEBUNGSTEMPERATUR			

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	1
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	4	4	-

INSTALLATION

PROTECTION CLASS	IP54	IP54	IP54
AMBIENT TEMPERATURE	10 °C - 50 °C	10 °C - 50 °C	10 °C - 45 °C

TruDisk 4002**TruDisk 4006****TruDisk 5000****LASER PARAMETERS**

LASER POWER ON THE WORKPIECE	4000 W	4000 W	5000 W
TYPICAL POWER CONSTANCY AT RATED POWER	± 1 % with active power regulation	± 1 % with active power regulation	-
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	80 W - 4000 W with active power regulation	80 W - 4000 W with active power regulation	100 W - 5000 W with active power regulation
BEAM QUALITY AT THE INPUT COUPLING IN THE LLK	8 mm ■ mrad	25 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	200 µm	600 µm	50 µm
TYP. LEISTUNGSKONSTANZ BEI NENNLEISTUNG ÜBER 8 STD. BEI KONSTANTER UMGEBUNGSTEMPERATUR			

TruDisk 4002**TruDisk 4006****TruDisk 5000**

MAX. LEISTUNGSKONSTANZ BEI
NENNLEISTUNG ÜBER 8 STD. BEI
KONSTANTER
UMGEBUNGSTEMPERATUR

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 5001**TruDisk 5002****TruDisk 5006****LASER PARAMETERS**

LASER POWER ON THE WORKPIECE	5000 W	5000 W	5000 W
TYPICAL POWER CONSTANCY AT RATED POWER	-	-	-
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	120 W - 5000 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	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
TYP. LEISTUNGSKONSTANZ BEI NENNLEISTUNG ÜBER 8 STD. BEI KONSTANTER UMGEBUNGSTEMPERATUR			
MAX. LEISTUNGSKONSTANZ BEI NENNLEISTUNG ÜBER 8 STD. BEI KONSTANTER UMGEBUNGSTEMPERATUR			

STRUCTURAL DESIGN

WIDTH	1175 mm	1175 mm	1175 mm
HEIGHT	1430 mm	1430 mm	1430 mm
DEPTH	725 mm	725 mm	725 mm

TruDisk 5001**TruDisk 5002****TruDisk 5006**

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 6000**TruDisk 6001****TruDisk 6001 P****LASER PARAMETERS**

LASER POWER ON THE WORKPIECE

6000 W

6000 W

6000 W

TYPICAL POWER CONSTANCY AT RATED POWER

-

-

-

TYPICAL POWER CONSTANCY AT RATED POWER OVER 8 HOURS AT CONSTANT AMBIENT TEMPERATURE

± 0.5 %

± 0.5 %

± 1 %

MAXIMUM POWER CONSTANCY AT RATED POWER OVER 8 HOURS AT CONSTANT AMBIENT TEMPERATURE

± 1 %

± 1 %

± 2 %

CONTINUOUSLY ADJUSTABLE POWER RANGE

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

2 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

50 µm

100 µm

100 µm

TYP. LEISTUNGSKONSTANZ BEI NENNLEISTUNG ÜBER 8 STD. BEI KONSTANTER UMGEBUNGSTEMPERATUR

MAX. LEISTUNGSKONSTANZ BEI NENNLEISTUNG ÜBER 8 STD. BEI KONSTANTER UMGEBUNGSTEMPERATUR

STRUCTURAL DESIGN

WIDTH

1620 mm

1175 mm

1175 mm

HEIGHT

1475 mm

1430 mm

1430 mm

DEPTH

920 mm

725 mm

725 mm

MAXIMUM NUMBER OF LASER LIGHT CABLES

2

2

1

MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE

-

4

-

INSTALLATION

PROTECTION CLASS

IP54

IP54

IP54

AMBIENT TEMPERATURE

10 °C - 50 °C

10 °C - 50 °C

10 °C - 45 °C

TruDisk 6002**TruDisk 6006****TruDisk 8000****LASER PARAMETERS**

LASER POWER ON THE WORKPIECE	6000 W	6000 W	8000 W
TYPICAL POWER CONSTANCY AT RATED POWER	-	-	-
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	120 W - 6000 W with active power regulation	120 W - 6000 W with active power regulation	160 W - 8000 W with active power regulation
BEAM QUALITY AT THE INPUT COUPLING IN THE LLK	8 mm ■ mrad	25 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	200 µm	600 µm	50 µm
TYP. LEISTUNGSKONSTANZ BEI NENNLEISTUNG ÜBER 8 STD. BEI KONSTANTER UMGEBUNGSTEMPERATUR			
MAX. LEISTUNGSKONSTANZ BEI NENNLEISTUNG ÜBER 8 STD. BEI KONSTANTER UMGEBUNGSTEMPERATUR			

STRUCTURAL DESIGN

WIDTH	1175 mm	1175 mm	1620 mm
HEIGHT	1430 mm	1430 mm	1475 mm
DEPTH	725 mm	725 mm	920 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	2	2	2
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	4	4	-

INSTALLATION

PROTECTION CLASS	IP54	IP54	IP54
AMBIENT TEMPERATURE	10 °C - 50 °C	10 °C - 50 °C	10 °C - 50 °C

TruDisk 8001**TruDisk 10001****TruDisk 12001****LASER PARAMETERS**

LASER POWER ON THE WORKPIECE	8000 W	10000 W	12000 W
TYPICAL POWER CONSTANCY AT RATED POWER	-	± 1 % with active power regulation	-
TYPICAL POWER CONSTANCY AT RATED POWER OVER 8 HOURS AT CONSTANT AMBIENT TEMPERATURE	± 0.5 %	± 0.5 %	± 0.5 %

TruDisk 8001**TruDisk 10001****TruDisk 12001**

MAXIMUM POWER CONSTANCY AT RATED POWER OVER 8 HOURS AT CONSTANT AMBIENT TEMPERATURE	± 1 %		± 1 %
CONTINUOUSLY ADJUSTABLE POWER RANGE	160 W with active power regulation	200 W - 10000 W with active power regulation	240 W - 12000 W with active power regulation
BEAM QUALITY AT THE INPUT COUPLING IN THE LLK	4 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	100 µm	100 µm	100 µm
TYP. LEISTUNGSKONSTANZ BEI NENNLEISTUNG ÜBER 8 STD. BEI KONSTANTER UMGEBUNGSTEMPERATUR			
MAX. LEISTUNGSKONSTANZ BEI NENNLEISTUNG ÜBER 8 STD. BEI KONSTANTER UMGEBUNGSTEMPERATUR			

STRUCTURAL DESIGN

WIDTH	1175 mm	1620 mm	1620 mm
HEIGHT	1430 mm	1475 mm	1475 mm
DEPTH	725 mm	920 mm	920 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	2	2	2
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	4	-	-

INSTALLATION

PROTECTION CLASS	IP54	IP54	IP54
AMBIENT TEMPERATURE	10 °C - 50 °C	10 °C - 50 °C	10 °C - 50 °C

TruDisk 16002**TruDisk 16003****LASER PARAMETERS**

LASER POWER ON THE WORKPIECE	16000 W	16000 W
TYPICAL POWER CONSTANCY AT RATED POWER	± 1 % with active power regulation	± 1 % with active power regulation
TYPICAL POWER CONSTANCY AT RATED POWER OVER 8 HOURS AT CONSTANT AMBIENT TEMPERATURE		-
MAXIMUM POWER CONSTANCY AT RATED POWER OVER 8 HOURS AT CONSTANT AMBIENT TEMPERATURE		-
CONTINUOUSLY ADJUSTABLE POWER RANGE	320 W - 16000 W	320 W - 16000 W
BEAM QUALITY AT THE INPUT COUPLING IN THE LLK	8 mm ■ mrad	12 mm ■ mrad
NUMERICAL APERTURE ON THE OUTPUT COUPLING AFTER LLK	0.1	0.1

TruDisk 16002**TruDisk 16003**

WAVELENGTH	1030 nm	1030 nm
MINIMUM LASER LIGHT CABLE DIAMETER	200 µm	300 µm
TYP. LEISTUNGSKONSTANZ BEI NENNLEISTUNG ÜBER 8 STD. BEI KONSTANTER UMGEBUNGSTEMPERATUR		
MAX. LEISTUNGSKONSTANZ BEI NENNLEISTUNG ÜBER 8 STD. BEI KONSTANTER UMGEBUNGSTEMPERATUR		

STRUCTURAL DESIGN

WIDTH	2800 mm	2800 mm
HEIGHT	1550 mm	1550 mm
DEPTH	1400 mm	1400 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	6	6
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	-	-

INSTALLATION

PROTECTION CLASS	IP54	IP54
AMBIENT TEMPERATURE	10 °C - 50 °C	10 °C - 50 °C