



# TruDisk

Technical data

**TruDisk 1000 (new generation)****TruDisk 2000 (new generation)****TruDisk 3001****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	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

**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 3002****TruDisk 3006****TruDisk 4000****LASER PARAMETERS**

LASER POWER ON THE WORKPIECE	3000 W	3000 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 - 3000 W with active power regulation	80 W - 3000 W with active power regulation	80 W - 4000 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

**STRUCTURAL DESIGN**

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

**TruDisk 3002****TruDisk 3006****TruDisk 4000**

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 4001****TruDisk 4002****TruDisk 4006****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

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

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 5000****TruDisk 5001****TruDisk 5002****LASER PARAMETERS**

LASER POWER ON THE WORKPIECE

5000 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

100 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

2 mm ■ mrad

4 mm ■ mrad

8 mm ■ mrad

**TruDisk 5000****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

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 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 % with active power regulation
CONTINUOUSLY ADJUSTABLE POWER RANGE	200 W - 10000 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	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
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### STRUCTURAL DESIGN

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

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