



TruDisk

Technical data

TruDisk 1000**TruDisk 2000****TruDisk 1000 (new generation)****LASER PARAMETERS**

LASER POWER ON THE WORKPIECE	1000 W	2000 W	1000 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	60 W - 1000 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	730 mm	730 mm	1175 mm
HEIGHT	1375 mm	1375 mm	1430 mm
DEPTH	1120 mm	1120 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 2000 (new generation)**TruDisk 2002****TruDisk 2002 (Neue Generation)****LASER PARAMETERS**

LASER POWER ON THE WORKPIECE	2000 W	2000 W	2000 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 - 2000 W with active power regulation	60 W - 2000 W with active power regulation	60 W - 2000 W with active power regulation
BEAM QUALITY AT THE INPUT COUPLING IN THE LLK	2 mm ■ mrad	8 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	200 µm	50 µm

STRUCTURAL DESIGN

WIDTH	1175 mm	730 mm	1175 mm
HEIGHT	1430 mm	1375 mm	1430 mm
DEPTH	725 mm	1120 mm	725 mm

TruDisk 2000 (new generation)**TruDisk 2002****TruDisk 2002 (Neue Generation)**

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 3001 (new generation)****TruDisk 3002****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

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

100 µm

100 µm

200 µm

STRUCTURAL DESIGN

WIDTH

1600 mm

1175 mm

1600 mm

HEIGHT

1550 mm

1430 mm

1550 mm

DEPTH

950 mm

725 mm

950 mm

MAXIMUM NUMBER OF LASER LIGHT CABLES

4

2

4

MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE

6

4

6

INSTALLATION

PROTECTION CLASS

IP54

IP54

IP54

AMBIENT TEMPERATURE

10 °C - 50 °C

10 °C - 50 °C

10 °C - 50 °C

TruDisk 3002 (new generation)**TruDisk 3006****TruDisk 3006 (new generation)****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

TruDisk 3002 (new generation)**TruDisk 3006****TruDisk 3006 (new generation)**

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	8 mm ■ mrad	25 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	200 µm	600 µm	600 µm

STRUCTURAL DESIGN

WIDTH	1175 mm	1600 mm	1175 mm
HEIGHT	1430 mm	1550 mm	1430 mm
DEPTH	725 mm	950 mm	725 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	2	4	2
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	4	6	4

INSTALLATION

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

TruDisk 4001**TruDisk 4001 (new generation)****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	4 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	100 µm	100 µm	200 µm

STRUCTURAL DESIGN

WIDTH	1600 mm	1175 mm	1600 mm
HEIGHT	1550 mm	1430 mm	1550 mm
DEPTH	950 mm	725 mm	950 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	4	2	4
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	6	4	6

TruDisk 4001**TruDisk 4001 (new generation)****TruDisk 4002****INSTALLATION**

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

TruDisk 4002 (new generation)**TruDisk 4006****TruDisk 4006 (neue Generation)****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	8 mm ■ mrad	25 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	200 µm	600 µm	600 µm

STRUCTURAL DESIGN

WIDTH	1175 mm	1600 mm	1175 mm
HEIGHT	1430 mm	1550 mm	1430 mm
DEPTH	725 mm	950 mm	725 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	2	4	2
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	4	6	4

INSTALLATION

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

TruDisk 5001**TruDisk 5001 (new generation)****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	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	4 mm ■ mrad	8 mm ■ mrad
NUMERICAL APERTURE ON THE OUTPUT COUPLING AFTER LLK	0.1	0.1	0.1

TruDisk 5001**TruDisk 5001 (new generation)****TruDisk 5002**

WAVELENGTH	1030 nm	1030 nm	1030 nm
MINIMUM LASER LIGHT CABLE DIAMETER	100 µm	100 µm	200 µm

STRUCTURAL DESIGN

WIDTH	1600 mm	1175 mm	1600 mm
HEIGHT	1550 mm	1430 mm	1550 mm
DEPTH	950 mm	725 mm	950 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	4	2	4
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	6	4	6

INSTALLATION

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

TruDisk 5002 (new generation)**TruDisk 5006****TruDisk 5006 (new generation)****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	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	8 mm ■ mrad	25 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	200 µm	600 µm	600 µm

STRUCTURAL DESIGN

WIDTH	1175 mm	1600 mm	1175 mm
HEIGHT	1430 mm	1550 mm	1430 mm
DEPTH	725 mm	950 mm	725 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	2	4	2
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	4	6	4

INSTALLATION

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

TruDisk 6001**TruDisk 6001 (new generation)****TruDisk 6002****LASER PARAMETERS**

LASER POWER ON THE WORKPIECE	6000 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 - 6000 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	4 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	100 µm	100 µm	200 µm

STRUCTURAL DESIGN

WIDTH	1600 mm	1175 mm	1600 mm
HEIGHT	1550 mm	1430 mm	1550 mm
DEPTH	950 mm	725 mm	950 mm
MAXIMUM NUMBER OF LASER LIGHT CABLES	4	2	4
MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE	6	4	6

INSTALLATION

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

TruDisk 6002 (new generation)**TruDisk 6006****TruDisk 6006 (new generation)****LASER PARAMETERS**

LASER POWER ON THE WORKPIECE	6000 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 - 6000 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	8 mm ■ mrad	25 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	200 µm	600 µm	600 µm

STRUCTURAL DESIGN

WIDTH	1175 mm	1600 mm	1175 mm
HEIGHT	1430 mm	1550 mm	1430 mm
DEPTH	725 mm	950 mm	725 mm

TruDisk 6002 (new generation)**TruDisk 6006****TruDisk 6006 (new generation)**

MAXIMUM NUMBER OF LASER LIGHT CABLES

2

4

2

MAXIMUM NUMBER OF LASER LIGHT CABLES FOR EXTENDED DEVICE SIZE

4

6

4

INSTALLATION

PROTECTION CLASS

IP54

IP54

IP54

AMBIENT TEMPERATURE

10 °C - 50 °C

10 °C - 50 °C

10 °C - 50 °C

TruDisk 10001**TruDisk 10002****TruDisk 10003****LASER PARAMETERS**

LASER POWER ON THE WORKPIECE

10000 W

10000 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

240 W - 10000 W with active power regulation

200 W - 10000 W with active power regulation

200 W - 10000 W with active power regulation

BEAM QUALITY AT THE INPUT COUPLING IN THE LLK

4 mm ■ mrad

8 mm ■ mrad

12 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

300 µm

STRUCTURAL DESIGN

WIDTH

1990 mm

1990 mm

1990 mm

HEIGHT

1550 mm

1550 mm

1550 mm

DEPTH

1200 mm

1200 mm

1200 mm

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 12001**TruDisk 12002****TruDisk 12003****LASER PARAMETERS**

LASER POWER ON THE WORKPIECE

12000 W

12000 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

240 W - 12000 W with active power regulation

240 W - 12000 W with active power regulation

240 W - 12000 W with active power regulation

TruDisk 12001**TruDisk 12002****TruDisk 12003**

BEAM QUALITY AT THE INPUT COUPLING IN THE LLK	4 mm ■ mrad	8 mm ■ mrad	12 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	300 µm

STRUCTURAL DESIGN

WIDTH	1990 mm	1990 mm	1990 mm
HEIGHT	1550 mm	1550 mm	1550 mm
DEPTH	1200 mm	1200 mm	1200 mm
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 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
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
WAVELENGTH	1030 nm	1030 nm
MINIMUM LASER LIGHT CABLE DIAMETER	200 µm	300 µm

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

1 — Other optics configurations are available on request.