



昊量光电

TruMicro Series 5000

Technical data

TRUMPF



TruMicro 5050**TruMicro 5050 Femto Edition****TruMicro 5070****LASER PARAMETERS**

AVERAGE OUTPUT POWER	50 W	40 W	100 W
BEAM QUALITY (M ²)	< 1.3 Standard, M ² < 1.2 optional	< 1.3 Standard, M ² < 1.2 optional	< 1.3 Standard, M ² < 1.2 optional
WAVELENGTH	1030 nm	1030 nm	1030 nm
PULSE DURATION	< 10 ps	875 fs ± 125 fs	< 10 ps
MAXIMUM PULSE ENERGY	500 µJ	200 µJ	500 µJ
MINIMUM REPETITION RATE	100 kHz	200 kHz	200 kHz
MAXIMUM REPETITION RATE	1000 kHz	1000 kHz	1000 kHz

STRUCTURAL DESIGN

DIMENSIONS OF LASER HEAD (W X H X D)	680 mm x 289 mm x 1060 mm	680 mm x 289 mm x 1060 mm	680 mm x 289 mm x 1060 mm
DIMENSIONS OF SUPPLY UNIT (W X H X D)	442 mm x 1192 mm x 910 mm	442 mm x 1192 mm x 910 mm	442 mm x 1192 mm x 910 mm

INSTALLATION

PROTECTION CLASS	IP54	IP54	IP54
AMBIENT TEMPERATURE	20 °C - 30 °C	20 °C - 30 °C	20 °C - 30 °C

TruMicro 5070 Femto Edition**TruMicro 5080****TruMicro 5080 Femto Edition****LASER PARAMETERS**

AVERAGE OUTPUT POWER	80 W	150 W	120 W
BEAM QUALITY (M ²)	< 1.3 Standard, M ² < 1.2 optional	< 1.3 Standard, M ² < 1.2 optional	< 1.3 Standard, M ² < 1.2 optional
WAVELENGTH	1030 nm	1030 nm	1030 nm
PULSE DURATION	875 fs ± 125 fs	< 10 ps	900 fs (Tolerance -150...+100fs)
MAXIMUM PULSE ENERGY	200 µJ	250 µJ	200 µJ
MINIMUM REPETITION RATE	400 kHz	600 kHz	600 kHz
MAXIMUM REPETITION RATE	1000 kHz	1000 kHz	1000 kHz

STRUCTURAL DESIGN

DIMENSIONS OF LASER HEAD (W X H X D)	680 mm x 289 mm x 1060 mm	680 mm x 289 mm x 1060 mm	680 mm x 289 mm x 1060 mm
DIMENSIONS OF SUPPLY UNIT (W X H X D)	442 mm x 1192 mm x 910 mm	442 mm x 1192 mm x 910 mm	442 mm x 1192 mm x 910 mm

INSTALLATION

PROTECTION CLASS	IP54	IP54	IP54
AMBIENT TEMPERATURE	20 °C - 30 °C	20 °C - 30 °C	20 °C - 30 °C

TruMicro 5250**TruMicro 5250 Femto Edition****TruMicro 5270****LASER PARAMETERS**

AVERAGE OUTPUT POWER	30 W	25 W	60 W
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TruMicro 5250**TruMicro 5250 Femto Edition****TruMicro 5270**

BEAM QUALITY (M ²)	< 1.3 Standard, M ² < 1.2 optional	< 1.3 Standard, M ² < 1.2 optional	< 1.3 Standard, M ² < 1.2 optional
WAVELENGTH	515 nm	515 nm	515 nm
PULSE DURATION	< 10 ps	800 fs ± 100 fs	< 10 ps
MAXIMUM PULSE ENERGY	150 µJ	125 µJ	150 µJ
MINIMUM REPETITION RATE	200 kHz	200 kHz	400 kHz
MAXIMUM REPETITION RATE	1000 kHz	1000 kHz	1000 kHz

STRUCTURAL DESIGN

DIMENSIONS OF LASER HEAD (W X H X D)	680 mm x 289 mm x 1060 mm	680 mm x 289 mm x 1060 mm	680 mm x 289 mm x 1060 mm
DIMENSIONS OF SUPPLY UNIT (W X H X D)	442 mm x 1192 mm x 910 mm	442 mm x 1192 mm x 910 mm	442 mm x 1192 mm x 910 mm

INSTALLATION

PROTECTION CLASS	IP54	IP54	IP54
AMBIENT TEMPERATURE	20 °C - 30 °C	20 °C - 30 °C	20 °C - 30 °C

TruMicro 5270 Femto Edition**TruMicro 5280****TruMicro 5280 Femto Edition****LASER PARAMETERS**

AVERAGE OUTPUT POWER	50 W	90 W	75 W
BEAM QUALITY (M ²)	< 1.3 Standard, M ² < 1.2 optional	< 1.3 Standard, M ² < 1.2 optional	< 1.3 Standard, M ² < 1.2 optional
WAVELENGTH	515 nm	515 nm	515 nm
PULSE DURATION	800 fs ± 100 fs	< 10 ps	800 fs
MAXIMUM PULSE ENERGY	125 µJ	150 µJ	125 µJ
MINIMUM REPETITION RATE	400 kHz	600 kHz	600 kHz
MAXIMUM REPETITION RATE	1000 kHz	1000 kHz	1000 kHz

STRUCTURAL DESIGN

DIMENSIONS OF LASER HEAD (W X H X D)	680 mm x 289 mm x 1060 mm	680 mm x 289 mm x 1060 mm	680 mm x 289 mm x 1060 mm
DIMENSIONS OF SUPPLY UNIT (W X H X D)	442 mm x 1192 mm x 910 mm	442 mm x 1192 mm x 910 mm	442 mm x 1192 mm x 910 mm

INSTALLATION

PROTECTION CLASS	IP54	IP54	IP54
AMBIENT TEMPERATURE	20 °C - 30 °C	20 °C - 30 °C	20 °C - 30 °C

TruMicro 5350**TruMicro 5370****TruMicro 5380****LASER PARAMETERS**

AVERAGE OUTPUT POWER	15 W	30 W	45 W
BEAM QUALITY (M ²)	< 1.3 Standard, M ² < 1.2 optional	< 1.3 Standard, M ² < 1.2 optional	< 1.3 Standard, M ² < 1.2 optional
WAVELENGTH	343 nm	343 nm	343 nm
PULSE DURATION	< 10 ps	< 10 ps	< 10 ps

TruMicro 5350**TruMicro 5370****TruMicro 5380**

MAXIMUM PULSE ENERGY	75 μ J	75 μ J	75 μ J
MINIMUM REPETITION RATE	200 kHz	400 kHz	600 kHz
MAXIMUM REPETITION RATE	1000 kHz	1000 kHz	1000 kHz

STRUCTURAL DESIGN

DIMENSIONS OF LASER HEAD (W X H X D)	680 mm x 289 mm x 1060 mm	680 mm x 289 mm x 1060 mm	680 mm x 289 mm x 1060 mm
DIMENSIONS OF SUPPLY UNIT (W X H X D)	442 mm x 1192 mm x 910 mm	442 mm x 1192 mm x 910 mm	442 mm x 1192 mm x 910 mm

INSTALLATION

PROTECTION CLASS	IP54	IP54	IP54
AMBIENT TEMPERATURE	20 °C - 30 °C	20 °C - 30 °C	20 °C - 30 °C

TruMicro 5380 Femto Edition**LASER PARAMETERS**

AVERAGE OUTPUT POWER	36 W
BEAM QUALITY (M ²)	< 1.3 Standard, M ² < 1.2 optional
WAVELENGTH	343 nm
PULSE DURATION	800 fs
MAXIMUM PULSE ENERGY	36 μ J
MINIMUM REPETITION RATE	-
MAXIMUM REPETITION RATE	1000 kHz

STRUCTURAL DESIGN

DIMENSIONS OF LASER HEAD (W X H X D)	680 mm x 289 mm x 1060 mm
DIMENSIONS OF SUPPLY UNIT (W X H X D)	442 mm x 1192 mm x 910 mm

INSTALLATION

PROTECTION CLASS	IP54
AMBIENT TEMPERATURE	20 °C - 30 °C