



# TruMicro Series 5000

Technical data



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

AVERAGE OUTPUT POWER	50 W	40 W	100 W
BEAM QUALITY (M <sup>2</sup> )	< 1.3 Standard, M <sup>2</sup> < 1.2 optional	< 1.3 Standard, M <sup>2</sup> < 1.2 optional	< 1.3 Standard, M <sup>2</sup> < 1.2 optional
WAVELENGTH	1030 nm	1030 nm	1030 nm
PULSE DURATION	< 10 ps	875 fs ± 125 fs	< 10 ps
MAXIMUM PULSE ENERGY	250 µJ	200 µJ	250 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 5070 Femto Edition****TruMicro 5080****TruMicro 5080 Femto Edition****LASER PARAMETERS**

AVERAGE OUTPUT POWER	80 W	150 W	120 W
BEAM QUALITY (M <sup>2</sup> )	< 1.3 Standard, M <sup>2</sup> < 1.2 optional	< 1.3 Standard, M <sup>2</sup> < 1.2 optional	< 1.3 Standard, M <sup>2</sup> < 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 <sup>2</sup> )	< 1.3 Standard, M <sup>2</sup> < 1.2 optional	< 1.3 Standard, M <sup>2</sup> < 1.2 optional	< 1.3 Standard, M <sup>2</sup> < 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 <sup>2</sup> )	< 1.3 Standard, M <sup>2</sup> < 1.2 optional	< 1.3 Standard, M <sup>2</sup> < 1.2 optional	< 1.3 Standard, M <sup>2</sup> < 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 <sup>2</sup> )	< 1.3 Standard, M <sup>2</sup> < 1.2 optional	< 1.3 Standard, M <sup>2</sup> < 1.2 optional	< 1.3 Standard, M <sup>2</sup> < 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 µJ	75 µJ	75 µJ
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 <sup>2</sup> )	< 1.3 Standard, M <sup>2</sup> < 1.2 optional
WAVELENGTH	343 nm
PULSE DURATION	800 fs
MAXIMUM PULSE ENERGY	36 µJ
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