



# TruMicro Series 5000

Technical data





# TruMicro Series 5000

Short and ultrashort pulse lasers

## Technical data

	TruMicro 5025	TruMicro 5025 Femto Edition	TruMicro 5050
<b>LASER PARAMETERS</b>			
AVERAGE OUTPUT POWER	25 W	20 W	50 W
BEAM QUALITY (M <sup>2</sup> )	< 1.3	< 1.3	< 1.3
WAVELENGTH	1030 nm	1030 nm	1030 nm
PULSE DURATION	< 10 ps	900 fs (tolerance -150...+100 fs)	< 10 ps
MAX. PULSE ENERGY	125 µJ	200 µJ	250 µJ
MIN. REPETITION RATE	200 kHz	100 kHz	200 kHz
MAX. REPETITION RATE	400 kHz	400 kHz	800 kHz
<b>STRUCTURAL DESIGN</b>			
DIMENSIONS OF LASER HEAD (W X H X D)	1005 mm x 319 mm x 605 mm	1005 mm x 319 mm x 605 mm	1005 mm x 319 mm x 605 mm
DIMENSIONS OF SUPPLY UNIT (W X H X D)	442 mm x 1392 mm x 608 mm	442 mm x 1392 mm x 608 mm	442 mm x 1392 mm x 608 mm
<b>INSTALLATION</b>			
PROTECTION TYPE	IP54	IP54	IP54
AMBIENT TEMPERATURE	20 °C - 27 °C	20 °C - 27 °C	20 °C - 27 °C

	TruMicro 5050 Femto Edition	TruMicro 5070	TruMicro 5070 Femto Edition
<b>LASER PARAMETERS</b>			
AVERAGE OUTPUT POWER	40 W	100 W	80 W
BEAM QUALITY (M <sup>2</sup> )	< 1.3	< 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	900 fs (tolerance -150...+100 fs)	< 10 ps	875 fs ± 125 fs

Subject to changes. The details in our offer and order confirmation are definitive.



# TruMicro Series 5000

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	<b>TruMicro 5050 Femto Edition</b>	<b>TruMicro 5070</b>	<b>TruMicro 5070 Femto Edition</b>
MAX. PULSE ENERGY	200 µJ	250 µJ	200 µJ
MIN. REPETITION RATE	200 kHz	400 kHz	400 kHz
MAX. REPETITION RATE	800 kHz	1000 kHz	1000 kHz

### STRUCTURAL DESIGN

DIMENSIONS OF LASER HEAD (W X H X D)	1005 mm x 319 mm x 605 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 1392 mm x 608 mm	442 mm x 1192 mm x 910 mm	442 mm x 1192 mm x 910 mm

### INSTALLATION

PROTECTION TYPE	IP54		
AMBIENT TEMPERATURE	20 °C - 27 °C	20 °C - 30 °C	20 °C - 30 °C

	<b>TruMicro 5080</b>	<b>TruMicro 5080 Femto Edition</b>	<b>TruMicro 5225</b>
<b>LASER PARAMETERS</b>			
AVERAGE OUTPUT POWER	150 W	120 W	15 W
BEAM QUALITY (M <sup>2</sup> )	< 1.3	< 1.3	< 1.3
WAVELENGTH	1030 nm	1030 nm	515 nm
PULSE DURATION	< 10 ps	900 fs (tolerance -150...+100 fs)	< 10 ps
MAX. PULSE ENERGY	250 µJ	125 µJ	75 µJ
MIN. REPETITION RATE	600 kHz	600 kHz	200 kHz
MAX. REPETITION RATE	1000 kHz	1000 kHz	400 kHz

### STRUCTURAL DESIGN

DIMENSIONS OF LASER HEAD (W X H X D)	-	-	1005 mm x 319 mm x 605 mm
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# TruMicro Series 5000

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## Technical data

	TruMicro 5080	TruMicro 5080 Femto Edition	TruMicro 5225
DIMENSIONS OF SUPPLY UNIT (W X H X D)	-	-	442 mm x 1392 mm x 608 mm
<b>INSTALLATION</b>			
PROTECTION TYPE			IP54
AMBIENT TEMPERATURE	-	-	20 °C - 27 °C

  

	TruMicro 5250	TruMicro 5270	TruMicro 5270 Femto Edition
<b>LASER PARAMETERS</b>			
AVERAGE OUTPUT POWER	30 W	60 W	50 W
BEAM QUALITY (M <sup>2</sup> )	< 1.3	< 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	< 10 ps	800 fs ± 100 fs
MAX. PULSE ENERGY	150 µJ	150 µJ	125 µJ
MIN. REPETITION RATE	200 kHz	400 kHz	400 kHz
MAX. REPETITION RATE	800 kHz	1000 kHz	1000 kHz
<b>STRUCTURAL DESIGN</b>			
DIMENSIONS OF LASER HEAD (W X H X D)	1005 mm x 319 mm x 605 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 1392 mm x 608 mm	442 mm x 1192 mm x 910 mm	442 mm x 1192 mm x 910 mm
<b>INSTALLATION</b>			
PROTECTION TYPE	IP54		
AMBIENT TEMPERATURE	20 °C - 27 °C	20 °C - 30 °C	20 °C - 30 °C

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	TruMicro 5350	TruMicro 5360	TruMicro 5370
<b>LASER PARAMETERS</b>			
AVERAGE OUTPUT POWER	10 W	15 W	30 W
BEAM QUALITY (M <sup>2</sup> )	< 1.3	< 1.3	< 1.3
WAVELENGTH	343 nm	343 nm	343 nm
PULSE DURATION	< 10 ps	< 10 ps	< 10 ps
MAX. PULSE ENERGY	50 µJ	37.5 µJ	37.5 µJ
MIN. REPETITION RATE	200 kHz	400 kHz	800 kHz
MAX. REPETITION RATE	400 kHz	800 kHz	800 kHz
<b>STRUCTURAL DESIGN</b>			
DIMENSIONS OF LASER HEAD (W X H X D)	1005 mm x 319 mm x 605 mm	1005 mm x 319 mm x 605 mm	-
DIMENSIONS OF SUPPLY UNIT (W X H X D)	442 mm x 1392 mm x 608 mm	442 mm x 1392 mm x 608 mm	-
<b>INSTALLATION</b>			
PROTECTION TYPE	IP54	IP54	-
AMBIENT TEMPERATURE	20 °C - 27 °C	20 °C - 27 °C	-

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