INNOTECH LASER

LASER-COMPONENTS CATALOG

High-performance laser components engineered in Europe – with expert support, fast delivery, and customized solutions for your industry.

2025/2026

THE INNOTECH ADVANTAGES

- Laser components with **European quality standards from a single source**
- **First-class advice** and personal support **for your individual needs**
- Many years of experience and **direct contact** with the manufacturer
- **After sales service** even after the deal is closed
- Goods in stock **with short delivery times**
- **Guarantee** of up to 26 months
- **Free trial periods** for extensive testing of the good
- **Service and maintenance** on site in Hilden

WHY INNOTECH?

At Innotech Laser, we see ourselves as your personal technical contact right from the start, from the selection of suitable products and delivery through to reliable service after successful installation and commissioning.

Highest quality for your industrial lasers

We supply you exclusively with high-quality laser components, industrial lasers and laser spare parts as well as user-specific product combinations for all areas of application. Trust us and our product portfolio and convince yourself of our quality, our know-how and our flexibility.

To achieve the best system performance we match all components perfectly to your user-specific requirements and thus guarantee the highest quality in the long term. We cover a comprehensive product range for industrial lasers.

From UV lasers, infrared lasers, fibre lasers and galvano scanners to controls, cutting heads and spare parts, we always offer you the right products. Discover our solutions for industrial lasers and get to know our high-quality advice personally by contacting us. The Innotech Laser team is looking forward to meeting you.

CONTENTS

Raycus

FIBER LASER

We offer fiber lasers from Raycus Fiber Laser Technologies Co, Ltd., whose quality and performance as beam sources we have trusted for years.

Q-SWITCHED PULSED FIBER LASER

- Excellent for laser marking
- High single-pulse energy
- High availability
- Compact design
- Maintenance-free

RAYCUS Q-SWITCHED PULSED FIBER LASER
RFL-P50QB

SPECIFICATION

Product Name (RFL)	P20QB	P20QH	P30QB	P30QH	P50QB	P60QB	P70QB	P100QB
Output Power	20 W	20 W	30 W	30 W	50 W	60 W	70 W	100 W
Wavelength	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm
Repetition Frequency Range	20-60 kHz	2-500 kHz	30-60 kHz	2-500 kHz	50-100 kHz	55-100 kHz	20-100 kHz	20-200 kHz
Output Power Stability	< 3%	< 3%	< 3%	< 3%	< 3%	< 3%	< 3%	<3 %
Output Beam Diameter	7±1 mm	7±1 mm	7±1 mm	7±1 mm	7±1 mm	7±1 mm	7±1 mm	6.5±1 mm
Beam Quality	M^2 < 1,5	M^2 < 1,5	M^2 < 1,5	M^2 < 1,5	M^2 < 1,8	M^2 < 1,6	M^2 < 1,6	M2 < 1,8
Polarization State	Random	Random	Random	Random	Random	Random	Random	Random
Pulse Width	90-110 ns@20 kHz	90-110 ns@30 kHz	120-150 ns@30 kHz	120-150 ns@30 kHz	120-150 ns@50 kHz	<150 ns@50kHz	<130 ns@70kHz	50-110 ns@20 kHz
Single Pulse Energy	1 mJ@20 kHz	1 mJ@20 kHz	1 mJ@30 kHz	1 mJ@30 kHz	1 mJ@50 kHz	3 m	3 m	1 mJ@100 kHz
Delivery Cable Length *	3 m	3 m	3 m	3 m	3 m	3 m	3 m	3 m
Power Supply	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V
Range of Power	10-100 %	1-100 %	10-100 %	1-100 %	10-100 %	10-100 %	10-100 %	10-100 %
Power Consumption	170 W	170 W	240 W	240 W	340 W	340 W	340 W	500W
Dimenstions (mm)	286x215x95	290x215x95	286x215x95	290x215x95	340x260x 20	260x116x340	390x360x123	390x360x123
Cooling	Air	Air	Air	Air	Air	Air	Air	Air
Operating Temperatur	0–40 °C	0–40 °C	0–40 °C	0–40 °C	0–40 °C	0–40 °C	0–40 °C	0–40 °C
Storage Temperature	-10–60 °C	-10–60 °C	-10–60 °C	-10–60 °C	-10–60 °C	-10–60 °C	-10–60 °C	-10–60 °C

* optional 2 / 4 / 5 m

HIGH POWER PULSED FIBER LASER

- Excellent for laser cleaning
- Wide frequency range
- High beam quality
- High single-pulse energy
- Excellent beam quality

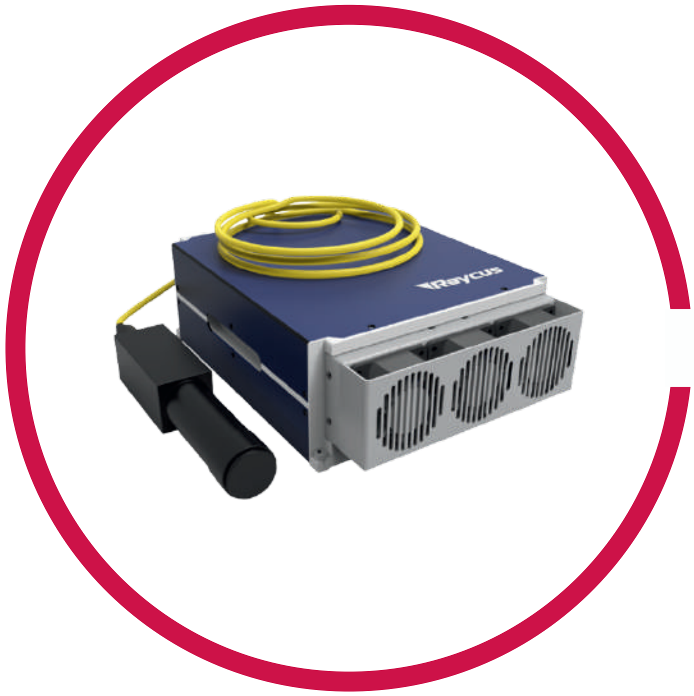
RAYCUS HIGH POWER PULSED FIBER LASER
RFL-P500

SPECIFICATION

Product Name (RFL)	P200H	P200Q	P300H	P300Q	P500H	P500Q	P1000H
Output Power	200 W	200 W	300 W	300 W	500 W	500 W	1000 W
Wavelength	1080±5 nm	1080±5 nm	1080±5 nm	1080±5 nm	1080±5 nm	1080±5 nm	1080±5 nm
Repetition Frequency Range	10-100 kHz	10-50 kHz	10-100 kHz	20-50 kHz	10-100 kHz	10-50 kHz	10-100 kHz
Polarization State	Random	Random	Random	Random	Random	Random	Random
Pulse Width	90-130 ns	120-160 ns	30-100 ns	120-160 ns	20-100 ns	120-160 ns	20-100 ns
Single Pulse Energy	10 mJ@20 kHz	10 mJ @ 20 kHz	15 mJ@20 kHz	12.5 mJ@20 kHz	50 mJ@10 kHz	12.5 mJ@20 kHz	100 mJ@10 kHz
Output Power Stability	<5 %	<5 %	<5 %	<5 %	<5 %	<5 %	<5 %
Terminal Type	QBH	QBH	QBH	QBH	QBH	QBH	QBH
Output Fiber Core	200 μm	100 μm	100 μm	100 μm	400 μm	100 μm	400 μm
Delivery Cable Length	5 m	10 m	10 m	10 m	15 m	10 m	15 m
BBP (mm.mrad)	< 13	< 2.0	< 2.0	< 2.0	< 2.5	< 2.0	< 25
Power Supply	230 V, Single Phase	230 V, Single Phase	230 V, Single Phase	230 V, Single Phase	230 V, Single Phase	230 V, Single Phase	230 V, Single Phase
Range of Power	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %
Power Consumption	1000 W				2500 W		3500 W
Dimensions (mm)	485x237x763	485x237x765	485x237x765	485x237x765	480x253x798	485x237x765	483x257x939
Cooling	Water	Water	Water	Water	Water	Water	Water
Operating Temperature	10 – 40 °C	10 – 40 °C	10 – 40 °C	10 – 40 °C	10 – 40 °C	10 – 40 °C	10 – 40 °C

MOPA FIBER LASER

- MOPA technology
- Wide frequency range
- Modular pulse width
- Direct availability
- High beam quality
- CW function



RAYCUS MOPA FIBER LASER
RFL-P20MX

SPECIFICATION

Product Name (RFL)	P20MX	P30MX	P60MX	P70MX	P100MX	P120MX	P200MX	P250MX	P300MX
Output Power	20 W	30 W	60 W	70 W	100 W	120 W	200 W	250 W	300 W
Wavelength	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm
Repetition Frequency Range	1-2000 kHz	1-2000 kHz	1-2000 kHz	1-2000 kHz	1-2000 kHz	1-2000 kHz	1-4000 kHz	1-4000 kHz	1-4000 kHz
Output Power Stability	< 3 %	< 3 %	< 3 %	< 3 %	< 3 %	< 5 %	< 5 %	< 5 %	< 5 %
Output Beam Diameter	7±1 mm	7±1 mm	6.5±1 mm	6.5±1 mm	6.5±1 mm	6±1 mm	7±1 mm	7±1 mm	7±1 mm
Beam Quality	$M^2 < 1,3$	$M^2 < 1,6$	$M^2 < 1,6$	$M^2 < 1,6$	$M^2 < 1,6$	$M^2 < 1,6$	$M^2 < 1,8$	$M^2 < 1,8$	$M^2 < 1,8$
Polarizatino State	Random	Random	Random	Random	Random	Random	Random	Random	Random
Pulse Width	2-500 ns	2-500 ns	10-350 ns	10-350 ns	10-350 ns	10-350 ns	10-350 ns	10-350 ns	10-350 ns
Single Pulse Energy	0,7 mJ	1 mJ	1.5 mJ	1.5 mJ	1.5 mJ	1.5 mJ	1.5 mJ	1.5 mJ	1.5 mJ
Delivery Cable Length*	3 m	3 m	3 m	3 m	3 m	3 m	3 m	3 m	3 m
Power Supply	24 V	24 V	24 V	24 V	24 V	24 V	48 V	48 V	48 V
Range of Power	1-100 %	1-100 %	1-100 %	1-100 %	1-100 %	1-100 %	1-100 %	1-100 %	1-100 %
Power Consumption	150 W	200 W	450 W	450 W	500 W		800W	1000W	
Dimensions (mm)	286x215x95	286x215x95	363x320x120	350x320x120	463x395x131	363x320x120	463x395x131	463x395x131	460x131x395
Cooling	Air	Air	Air	Air	Air	Air	Air	Air	Air

* optional 2 / 4 / 5 m

QCW FIBER LASER

- Process mode: CW or pulsed
- Excellent beam quality
- Stable output power
- Fiber core diameter modifiable
- Excellent for laser welding applications

RAYCUS QCW FIBER LASER
RFL-QCW150/1500

SPECIFICATION

Product Name (RFL)	QCW 75/750	QCW 150/1500	QCW 300/3000	QCW 450/1500	QCW 600/6000
Operation Mode	CW / Modulate	CW / Modulate	CW / Modulate	CW / Modulate	
Average Power (CW)	120 W	250 W	300 W	450 W	600 W
Average Power (pulse)	75 W	150 W	300 W	450 W	600W
Max.Output Power	750 W	1500 W	3000 W	4500 W	6000 W
Max. Pulse Energy	7.5 J	15 J	30 J	45 J	60 J
Wavelength	1080±5 nm	1080±5 nm	1080±5 nm	1080±5 nm	1080±5 nm
Repetition Frequency Range	0-5000 Hz	0-5000 Hz	0-5000 Hz	0-5000 Hz	0-5000 Hz
Pulse Width	0.05-50 ms	0.05-50 ms	0.05-50 ms	0.05-50 ms	0.05-50 ms
Output Power Stability	< 3%	< 3%	< 3%	< 3%	< 3%
Terminal Type	QBH	QBH	QBH	QBH	HQBH
Output Fiber Core	12, 25, 50 μm	12, 25, 50 μm	25, 50, 100, 200 μm	50, 100, 200 μm	50, 100, 200 μm
BBP (mm.mrad)	0.4, 0,5 , 1.5	0.4, 0,5 , 1.5	0.5, 1.5, 2.5, 3.5, 6	2.5, 3.5, 6	2.5, 3.5, 6
Power Supply	230 V, Single Phase	230 V, Single Phase	400 V, three Phase	400 V, three Phase	400 V, three Phase
Control Mode	RS232 / AD / Ethernet	RS232 / AD / Ethernet	RS232 / AD / Ethernet	RS232 / AD / Ethernet	RS232 / AD / Ethernet
Range of Power (%)	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %
Power Consumption	500 W	1000 W	1500 W	2000 W	
Dimensions (mm)	280x440x148	485x763x237	570x565x234	570x565x234	900x960x1160
Cooling	Air	Air	Air	Water	Water
Operating Temperature	10 – 40 °C	10 – 40 °C	10 – 40 °C	10 – 40 °C	10 – 40 °C

CW FIBER LASER

- CE certified
- Selectable fiber core diameter
- Selectable fiber length
- Selectable fiber output
- Anti-reflection
- Excellent for laser cutting
- Excellent optical properties
- Maintenance-free

RAYCUS SINGLE MODULE CW FIBER LASER
RFL-C1000S-CE

SPECIFICATION

Product Name (RFL)	C1000S-CE	C1500S-CE	C2000S-CE	C3000S-CE	C4000S-CE	C6000S-CE	C8000S-CE	C12000S-CE	C20000M-CE	C30000M-CE	C40000M-CE
Wavelength	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm
Output power	1000 W	1500 W	2000 W	3000 W	4000 W	6000 W	8000 W	12000 W	20000 W	30000 W	40000 W
Power instability	<1.5 %	<1.5 %	<1.5 %	<1.5 %	<1.5 %	<1.5 %	<1.5 %	<1.5 %	<1.5 %	<1.5 %	<1.5 %
Range of Power	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %
Repetition frequency	1-5000 Hz	1-5000 Hz	1-5000 Hz	1-5000 Hz	1-20000 Hz	1-20000 Hz	1-20000 Hz	1-5000 Hz	50-5000 Hz	50-5000 Hz	50-5000 Hz
Beam quality	<1.5 BPP	<1.5 BPP	<1.5 BPP	<1.5 BPP	<2.5 BPP	<2.5 BPP	<4.0 BPP	<4.0 BPP	<4.2 BPP	<4.3 BPP	<4.3 BPP
Terminal type	QBH	QBH	QBH	QBH	QBH	QBH	QBH	QD	QP	QP	QP
Fiber length	20 m	20 m	20 m	20 m	20 m	20 m	20 m	20 m	30 m	30 m	30 m
Fiber core	25 µm	50 µm	50 µm	50 µm	50 µm	75 µm	100 µm	100 µm	100 µm	100 µm	100 µm
Supply voltage	230 V	230 V	230 V	380 V	380 V	380 V	380 V	380 V	380 V	380 V	380 V
Operation mode	CW/Mod	CW/Mod	CW/Mod	CW/Mod	CW/Mod	CW/Mod	CW/Mod	CW/Mod	CW/Mod	CW/Mod	CW/Mod
Control mode	Ethernet, RS-232- AD	Ethernet, RS-232- AD	Ethernet, RS-232- AD	Ethernet, RS-232- AD	Ethernet, RS-232- AD	Ethernet, RS-232- AD	Ethernet, RS-232- AD	Ethernet, RS-232- AD	Ethernet, RS-232- AD	Ethernet, RS-232- AD	Ethernet, RS-232- AD
Dimensions (mm)	440x150x586 mm	440x150x586 mm	440x150x586 mm	485x172x727 mm	485x172x727 mm	485x172x727 mm	560x1344x1157 mm	560x1344x1157 mm	960x1530x1160 mm	1050x1540x1290 mm	1050x1540x1290 mm
Weight	<30 kg	<30 kg	<30 kg	<60 kg	<80 kg	<120 kg	<250 kg	<250 kg	<700 kg	<700 kg	<900 kg
Operating temperature	10-40 °C	10-40 °C	10-40 °C	10-40 °C	10-40 °C	10-40 °C	10-40 °C	10-40 °C	10-40 °C	10-40 °C	10-40 °C
Storage temperature	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C
Humidity	<70 %	<70 %	<70 %	<70 %	<70 %	<70 %	<70 %	<70 %	<70 %	<70 %	<70 %
Cooling methode	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water

CW FIBER LASER HIGH PERFORMANCE

- High safety standard: CE, PLD certified
- Up to 15% higher efficiency
- DeviceNet, PROFINET, EtherCAT, etc.
- Integrated monitoring systems
- Multiple anti-reflection safety features
- Excellent for laser cutting
- Excellent optical properties
- Maintenance-free

RAYCUS CW FIBER LASER HIGH PERFORMANCE
RFL-C3000S-HP

SPECIFICATION

Product Name (RFL)	C1000SM-HP	C1500S-HP	C1500SM-HP	C2000S-HP	C2000SM-HP	C3000S-HP	C3000SM-HP	C4000M-HP	C4000S-HP	C6000M-HP	C6000S-HP	C8000M-HP	C12000M-HP
Wavelength	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm
Output power	1000 W	1500 W	1500 W	2000 W	2000 W	3000 W	3000 W	4000 W	4000 W	6000 W	6000 W	8000 W	12000 W
Power instability	<1.5 %	<1.5 %	<1.5 %	<1.5 %	<1.5 %	<1.5 %	<1.5 %	<1.5 %	<1.5 %	<1.5 %	<1.5 %	<1.5 %	<1.5 %
Range of power	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %
Repetition frequency	1-5000 Hz	1-5000 Hz	1-5000 Hz	1-5000 Hz	1-5000 Hz	1-5000 Hz	1-5000 Hz	50-5000 Hz	50-5000 Hz	50-5000 Hz	50-5000 Hz	50-5000 Hz	50-5000 Hz
Beam quality	<1.1 M^2	<1.2 M^2	<1.2 M^2	<1.3 M^2	<1.3 M^2	<1.3 M^2	<1.3 M^2	<4.0 BPP	<4.0 BPP	<4.0 BPP	<4.0 BPP	<4.0 BPP	<4.0 BPP
Terminal type	QBH	QBH	QBH	QBH	QBH	QBH	QBH	QBH	QBH	HQBH	QBH	QD	QD
Fiber length	10 m	10 m	10 m	10 m	10 m	20 m	20 m	20 m	20 m	30 m	30 m	30 m	30 m
Fiber core	14 µm	50 µm	14 µm	50 µm	14 µm	50 µm	20 µm	100 µm	50 µm	100 µm	50 µm	100 µm	100 µm
Supply voltage	230 V	380 V	380 V	380 V	380 V	360-510 V	360-510 V	360-510 V	360-510 V	360-510 V	360-510 V	360-510 V	360-510 V
Operation mode	CW/Mod	CW/Mod	CW/Mod	CW/Mod	CW/Mod	CW/Mod	CW/Mod	CW/Mod	CW/Mod	CW/Mod	CW/Mod	CW/Mod	CW/Mod
Control mode (custom)	BUS, RS-232, AD	BUS, RS-232, AD	BUS, RS-232, AD	BUS, RS-232, AD	BUS, RS-232, AD	BUS, RS-232, AD	BUS, RS-232, AD	BUS, RS-232, AD	BUS, RS-232, AD	BUS, RS-232, AD	BUS, RS-232, AD	BUS, RS-232, AD	BUS, RS-232, AD
Dimensions (mm)	448x934x 168 mm	448x934x 168 mm	448x934x 168 mm	448x934x 168 mm	448x934x 168 mm	448x934x 168 mm	448x934x 168 mm	900x980x 1090 mm	448x934x 168 mm	900x980x 1090 mm	448x934x 168 mm	900x980x 1090 mm	1200x980 x1160 mm
Weight	<50 kg	<50 kg	<50 kg	<50 kg	<50 kg	<70 kg	<70 kg	<280 kg	<85 kg	<280 kg	<85 kg	<360 kg	<500 kg
Operating temperature	10-40 °C	10-40 °C	10-40 °C	10-40 °C	10-40 °C	10-40 °C	10-40 °C	10-40 °C	10-40 °C	10-40 °C	10-40 °C	10-40 °C	10-40 °C
Storage temperature	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C
Humidity	<70 %	<70 %	<70 %	<70 %	<70 %	<70 %	<70 %	<70 %	<70 %	<70 %	<70 %	<70 %	<70 %
Cooling methode	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water

CW FIBER LASER FOR 3D METAL PRINTING

- Excellent for 3D metal printing applications
- High beam quality
- Small fiber core diameter
- High power stability
- High reliability

RAYCUS CW FIBER LASER FOR 3D METAL PRINTING
RFL-C1000AM

SPECIFICATION

Product Name (RFL)	C300AM	C500AM	C1000AM
Operation Mode	CW / Modulate	CW / Modulate	CW / Modulate
Average Power (CW)	300 W	500 W	1000W
Wavelength	1080±5 nm	1080±5 nm	1080±5 nm
Repetition Frequency Range	1-20 KHz	1-20 KHz	1-20 KHz
Output Power Stability	< 3%	< 3%	< 3%
Terminal Type	QBH/QCS	QBH/QCS	QBH
Output Fiber Core	14 µm	14 µm	14 µm
Beam Quality	M^2 < 1,1	M^2 < 1,1	M^2 < 1,1
Power Supply	230 V, Single Phase	230 V, Single Phase	230 V, Single Phase
Control Mode	RS232 / AD Ethernet	RS232 / AD Ethernet	RS232 / AD Ethernet
Range of Power (%)	10-100 %	10-100 %	10-100 %
Power Consumption	1200 W	2000 W	4000 W
Dimensions (mm)	410x150x575	410x150x575	410x150x575
Cooling	Air	Water	Water
Operating Temperature	10 – 40 °C	10 – 40 °C	10 – 40 °C

CW FIBER LASER FOR WELDING APPLICATIONS

- Excellent for welding applications
- High power stability
- Excellent beam quality
- Continuously adjustable power range
- Fast response times
- High reliability

RAYCUS CW FIBER LASER FOR WELDING APPLICATIONS
RFL-C2000H-CE

SPECIFICATION

Product Name (RFL)	C1000H-CE	C1500H-CE	C2000H-CE	C3000H-CE
Operation Mode	CW/Modulate	CW/Modulate	CW/Modulate	CW/Modulate
Average Power (CW)	1000 W	1500 W	2000 W	3000 W
Wavelength	1080±5 nm	1080±5 nm	1080±5 nm	1080±5 nm
Output Power Stability	< 3%	< 3%	< 3%	< 3%
Repetition Frequency Range	1-5000 Hz	1-5000 Hz	1-5000 Hz	1-5000 Hz
Output Fiber Core *	50 μm (14,20,100,200)	50 μm (14,20,100,200)	50 μm (14,20,100,200)	50 μm (14,20,100,200)
BBP (mm.mrad)	<1,5	<1,5	<1,5	<1,5
Polarization State	Random	Random	Random	Random
Delivery Cable Length *	10 m	10 m	10 m	10 m
Terminal Type	QBH	QBH	QBH	QBH
Power Supply	230 V	230 V	230 V	380 V
Control Mode	RS232 / AD / Ethernet	RS232 / AD / Ethernet	RS232 / AD / Ethernet	RS232 / AD / Ethernet
Range of Power (%)	10-100 %	10-100 %	10-100 %	10-100 %
Power Consumption	4000 W	6000 W	8000 W	12 KW
Dimensions (mm)	440x150x586 mm	440x150x586 mm	440x150x586 mm	485x172x727 mm
Cooling	Water	Water	Water	Water
Operating Temperature	10–40 °C	10–40 °C	10–40 °C	10–40 °C

* Customized

ABP FIBER LASER FOR BATTERY WELDING APPLICATIONS

- Excellent for battery welding applications
- Adjustable beam profile
- Excellent weld seam quality
- Outstanding welding speeds
- Optimized for battery production
- Extremely high reliability

RAYCUS ABP FIBER LASER FOR BATTERY WELDING APPLICATIONS
RFL-ABP-4000/2000

SPECIFICATION

Product Name (ABP)	1500/1500	2000/2000	2000/4000	3000/3000	4000/2000	4000/4000	6000/6000
Wavelength	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm
Center emission power	1500 W	2000 W	2000 W	3000 W	4000 W	4000 W	6000 W
Ring emission power	1500 W	2000 W	4000 W	3000 W	2000 W	4000 W	6000 W
Emission power	3000 W	4000 W	6000 W	6000 W	6000 W	8000 W	12000 W
Fiber length	20 m	20 m	20 m	20 m	20 m	20 m	20 m
Operating voltage	400 V	400 V	400 V	400 V	400 V	400 V	400 V
Center fiber core	50 µm	50 µm	50 µm	50 µm	50 µm	50 µm	100 µm
Ring fiber core	150 µm	150 µm	150 µm	150 µm	150 µm	150 µm	300 µm
Optic	IHQB	IHQB	IHQB	IHQB	IHQB	IHQB	QD
Power instability	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %
BPP	<2.2@50 µm / <4@100 µm	<2.2@50 µm / <4@100 µm	<2.2@50 µm / <4@100 µm	<2.2@50 µm / <4@100 µm	<2.2@50 µm / <4@100 µm	<2.2@50 µm / <4@100 µm	<2.2@50 µm / <4@100 µm
Control mode	Serial, AD	Serial, AD	Serial, AD	Serial, AD	Serial, AD	Serial, AD	Serial, AD
Dimensions (mm)	670x990x1160 mm	670x990x1160 mm	900x960x1160 mm	900x960x1160 mm	900x960x1160 mm	900x960x1160 mm	1200x960x1160 mm
Weight	<250 kg	<360 kg	<400 kg	<400 kg	<400 kg	<500 kg	<600 kg
Operating temperature	10–40 °C	10–40 °C	10–40 °C	10–40 °C	10–40 °C	10–40 °C	10–40 °C
Power range	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %
Humidity	<70 %	<70 %	<70 %	<70 %	<70 %	<70 %	<70 %
Cooling methode	Water	Water	Water	Water	Water	Water	Water

DIRECT DIODE LASER

- Excellent for plastic welding applications
- High beam quality
- Compact design
- High power stability
- High reliability

RAYCUS DIRECT DIODE LASER
RFL-A1000D

SPECIFICATION

Product Name (RFL)	A200D	A500D	A1000D	A1500D	A2000D	A3000D	A4000D	A6000D
Output Power	200 W	500 W	1000 W	1500 W	2000 W	3000 W	4000 W	6000 W
Wavelength [1]	915±10 nm	915±10 nm	915±10 nm	915±10 nm	915±10 nm	915±10 nm	915±10 nm	915±10 nm
Output Power Stability	<±2.0 %	<±2.0 %	<±2.0 %	<±2.0 %	<±2.0 %	<±2.0 %	<±2.0 %	<±2.0 %
Modulation Frequency	50 Hz-10 KHz	50 Hz-10 KHz	50 Hz-10 KHz	50 Hz-10 KHz	50 Hz-5 KHz	50 Hz-5 KHz	50 Hz-5 KHz	50 Hz-5 KHz
Fiber core [2]	200 µm	300/400 µm	300/400 µm	300/400 µm	400/600 µm	400/600 µm	400/600 µm	400/600 µm
Numerical Aperture	0,22	0,22	0,22	0,22	0,22	0,22	0,22	0,22
Terminal Type	SMA905	QBH	QBH	QBH	QBH	HQBH	HQBH	HQBH
Control Mode	RS232/AD	RS232/AD	RS232/AD	RS232/AD	RS232/AD	RS232/AD	RS232/AD	RS232/AD
Cooling	Air	Water	Water	Water	Water	Water	Water	Water
Delivery Cable Length	5 m	5 m	10 m	10 m	10 m	10 m	10 m	10 m
Power Supply	DC 48V	230 VAC, 50/60 Hz	230 VAC, 50/60 Hz	230 VAC, 50/60 Hz	230 VAC, 50/60 Hz	230 VAC, 50/60 Hz	230 VAC, 50/60 Hz	230 VAC, 50/60 Hz
Range of Power (%)	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %	10-100 %
Operating Temperature	10 – 40 °C	10 – 40 °C	10 – 40 °C	10 – 40 °C	10 – 40 °C	10 – 40 °C	10 – 40 °C	10 – 40 °C

[1] Optional 976 nm
[2] Customized

GZTECH

FIBER LASER

We offer fiber lasers from GZTech, whose quality and performance as beam sources we trust. Our fiber laser portfolio includes, among others, pulsed fiber lasers as well as MOPA fiber lasers.

GME SERIES FIBER LASER

- Excellent for deep laser engraving and surface treatment
- High-speed laser marking
- Maintenance-free
- Compact design
- Cost-efficient

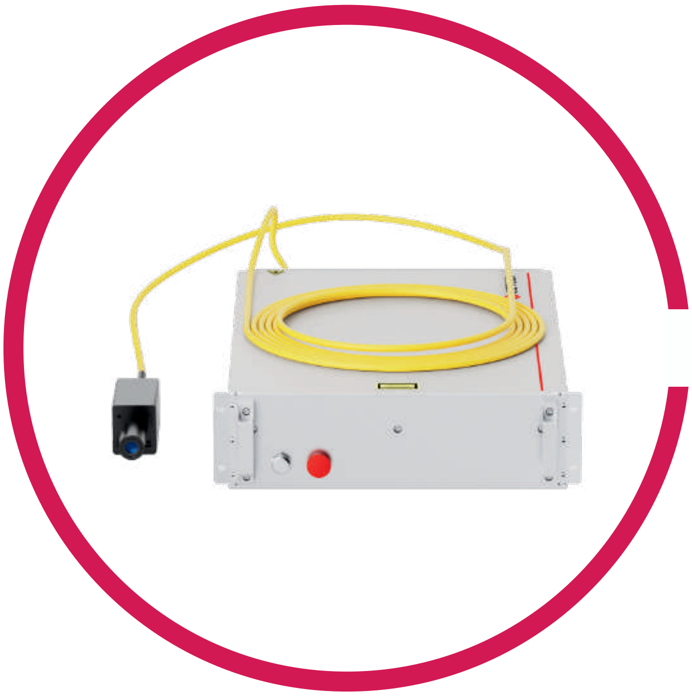
GZTECH MOPA LASER
YFPN-200-GME AIR-COOLED

SPECIFICATION

Product Name (YFPN)	20-GME	30-GME	60-GME	80-GME	100-GME	200-GME	300-GME	500-GME
Wavelength	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm
Output power	20 W	30 W	60 W	80 W	100 W	200 W	300 W	500 W
Max. pulse energy	0.8 mJ	0.8 mJ	1.5 mJ	1.5 mJ	1.5 mJ	1.5 mJ	1.5 mJ	1.5 mJ
Range of power	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %
Repetition frequency	1-3000 kHz	1-3000 kHz	1-3000 kHz	1-3000 kHz	1-3000 kHz	1-3000 kHz	1-3000 kHz	1-3000 kHz
Full power frequency	25-3000 kHz	37-3000 kHz	40-3000 kHz	53-3000 kHz	65-3000 kHz	78-3000 KHz	200-2000 kHz	200-2000 kHz
Pulse width	2-500 ns	2-500 ns	2-500 ns	2-500 ns	2-500 ns	2-500 ns	50-500 ns	50-500 ns
Power instability	<5 %	<5 %	<5 %	<5 %	<5 %	<5 %	<5 %	<5 %
Beam quality	<1.35 M^2	<1.35 M^2	<1.8 M^2	<1.8 M^2	<1.8 M^2	<1.8 M^2	<1.8 M^2	<1.8 M^2
Laser switching ON/OFF time	<20 µs	<20 µs	<20 µs	<20 µs	<20 µs	<20 µs	<20 µs	<20 µs
Spectral width @3dB	<15 nm	<15 nm	<15 nm	<15 nm	<20 nm	<20 nm	<20 nm	<20 nm
Beam diameter	7 mm	7 mm	7 mm	7 mm	7 mm	7 mm	7 mm	10 mm
Delivery cable	2 m	2 m	2 m	2 m	3 m	3 m	3 m	5 m
Supply volltage DC	24 V	24 V	24 V	24 V	48 V	48 V	48 V	48 V
Current consumption	<6 A	<6 A	<6 A	<14 A	<14 A	<16 A	<24 A	<40 A
Power consumption	<144 W	<144 W	<312 W	<336 W	<480 W	<768 W	<1152 W	<1920 W
Operating temperature	0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C
Storage temperature	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C
Cooling methode	Air	Air	Air	Air	Air	Air	Air	Water
Laser dimension (mm)	270x210x70 mm	270x210x70 mm	339x301x96 mm	339x301x96 mm	360x300x114 mm	360x300x114 mm	448x439x135 mm	485x461x82 mm

GM SERIES FIBER LASER

- Excellent for surface treatment
- Wide frequency range
- High peak power (40 kW)
- High performance
- Outstanding stability



GZTECH FIBER LASER
YFPN-200-GM AIR COOLED

SPECIFICATION

Product Name (YFPN)	100-GM	200-GM	300-GM	500-GM	750-GM	1000-GM
Wavelength	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm
Output power	100 W	200 W	300 W	500 W	750 W	1000 W
Max. pulse energy	2 mJ	2 mJ	2 mJ	2 mJ	2 mJ	2 mJ
Range of power	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %
Repetition frequency	1-3000 kHz	1-3000 kHz	1-3000 kHz	1-4000 kHz	1-6000 kHz	1-6000 kHz
Full power frequency	25-3000 kHz	250-1000 kHz	150-1000 kHz	250-1000 kHz	-	-
Pulse width	2-500 ns	2-500 ns	2-500 ns	20-500 ns	20-500 ns	20-500 ns
Power instability	<5 %	<5 %	<5 %	<5 %	<5 %	<5 %
Beam quality	<1.8 M^2	<1.8 M^2	<1.8 M^2	<1.8 M^2	<1.8 M^2	<1.8 M^2
Laser switching ON/OFF time	<20 μs	<20 μs	<20 μs	<20 μs	<20 μs	<20 μs
Spectral width @3dB	<20 nm	<20 nm	<20 nm	<20 nm	<20 nm	<20 nm
Beam diameter	7 mm	7 mm	7 mm	7 mm	10 mm	10 mm
Delivery cable	3 m	3 m	5 m	5 m	5 m	5 m
Supply volltage DC	48 V	48 V	48 V	48 V	220 VAC	220 VAC
Current consumption	<10 A	<15 A	<24 A	<9 A	<12 A	<16 A
Power consumption	<480 W	<720 W	<1152 W	<1980 W	<2640 W	<3520 W
Operating temperature	0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C
Storage temperature	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C
Cooling methode	Air	Air	Air	Water	Water	Water
Laser dimension (mm)	360x301x114 mm	483x424x135 mm	448x439x135 mm	485x461x82 mm	692x485x130 mm	692x485x130 mm

GLE SERIES FIBER LASER

- Excellent for laser marking
- Excellent for laser cutting and drilling
- Strong anti-reflection
- High availability
- Maintenance-free

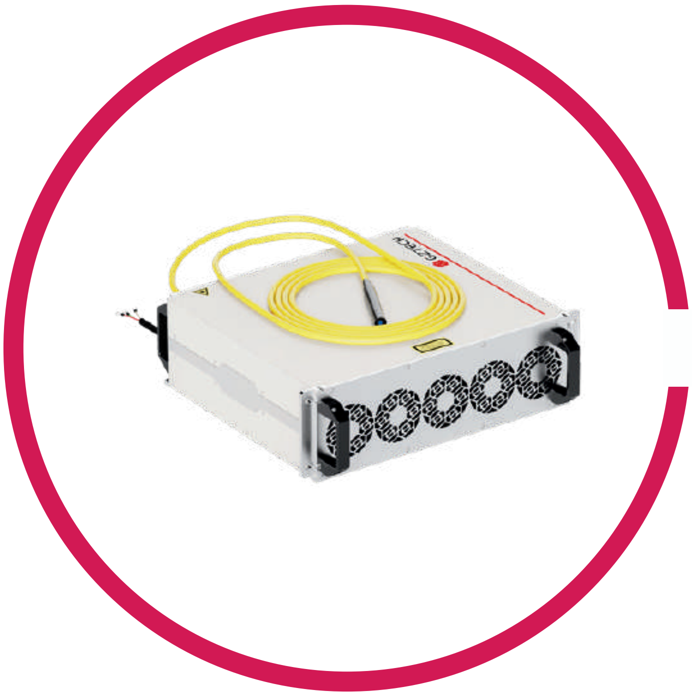
GZTECH FIBER LASER
YFPN-100-GLE AIR-COOLED

SPECIFICATION

Product Name (YFPN)	50-GLE	100-GLE
Wavelength	1064 nm	1064 nm
Output power	50 W	100 W
Max. pulse energy	1.25 mJ@40 kHz	1.25 mJ@80 kHz
Range of power	0-100 %	0-100 %
Repetition frequency	5-100 kHz	5-200 kHz
Pulse width	140 ns@40 kHz	140 ns@80 kHz
Power instability	<5 %	<5 %
Beam quality	<1.8 M^2	<1.8 M^2
Laser switching ON/OFF time	<100 µs	<100 µs
Net weight	<20 kg	<20 kg
Spectral width @3dB	<5 nm	<5 nm
Beam diameter	7 mm	7 mm
Delivery cable	3 m	3 m
Supply voltage DC	24 V	48 V
Current consumption	<9 A	<8 A
Power consumption	<216 W	<384 W
Operating temperature	0-40 °C	0-40 °C
Storage temperature	-10-60 °C	-10-60 °C
Colling methode	Air	Air
Laser dimension (mm)	316x216x80 mm	360x301x114 mm

GMC SERIES FIBER LASER

- Excellent for laser cleaning
- Suitable for rust, paint, and coating removal
- Strong anti-reflection
- Pulse width modifiable
- Excellent for laser welding applications



GZTECH FIBER LASER
YFPN-100-GMC AIR COOLED

SPECIFICATION

Product Name (YFPN)	100-GMC	200-GMC	200-GMC-H5R	300-GMC	500-GMC	500-GMC-H15R	1000-GMC	1000-GMC-H50R	1000-GMC-H50R-F	1000-GMC-H100R-F
Wavelength	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm
Output power	100 W	200 W	200 W	300 W	500 W	500 W	1000 W	1000 W	1000 W	1000 W
Max. pulse energy	2 mJ	5 mJ	5 mJ	12 mJ	12 mJ	15 mJ	50 mJ	50 mJ	50 mJ	100 mJ
Range of power	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %
Repetition frequency	1-3000 kHz	1-3000 kHz	1-3000 kHz	1-1000 kHz	1-1000 kHz	1-1000 kHz	1-1000 kHz	1-400 kHz	1-400 kHz	1-400 kHz
Full power frequency	50-1200 kHz	40-1000 kHz	40-1000 kHz	25-480 kHz	41-1000 kHz	41-1000 kHz	400-1000 kHz	400-1000 kHz	400-1000 kHz	400-1000 kHz
Pulse width	10-500 ns	10-500 ns	10-500 ns	10-500 ns	10-500 ns	10-500 ns	30-500 ns	30-500 ns	30-500 ns	30-500 ns
Power instability	<5 %	<5 %	<5 %	<5 %	<5 %	<5 %	<5 %	<5 %	<5 %	<5 %
Beam quality M^2	<2 M^2	<6 M^2	<6 M^2	<5mm.mrad	<5mm.mrad	<5mm.mrad	<9mm.mrad	<9mm.mrad	<9mm.mrad	<24mm.mrad
Laser switching ON/OFF time	<20 μs	<20 μs	<20 μs	<20 μs	<20 μs	<20 μs	<20 μs	<20 μs	<20 μs	<20 μs
Net weight	<17 kg	<35 kg	<35 kg	<35 kg	<35 kg	<35 kg	<60 kg	<60 kg	<60 kg	<60 kg
Spectral width @3dB	<20 nm	<20 nm	<20 nm	<20 nm	<30 nm	<30 nm	<30 nm	<30 nm	<30 nm	<30 nm
Beam diameter	5 mm	5 mm	5 mm	6 mm	-	-	-	-	-	-
Delivery cable	5 m	5 m	5 m	5 m	10 m	10 m	10 m	10 m	10 m	10 m
Supply voltage DC	48 VDC	48 VDC	48 VDC	48 VDC	48 VDC	48 VDC	230 VAC	230 VAC	230 VAC	230 VAC
Current consumption	<10 A	<15 A	<15 A	<25 A	<8 A	<8 A	<16 A	<16 A	<16 A	<16 A
Power consumption	<480 W	<720 W	<720 W	<1200 W	<1760 W	<1920 W	<3520 W	<3520 W	<3520 W	<3520 W
Operating temperature	0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C
Storage temperature	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C
Cooling methode	Air	Air	Air	Water	Water	Water	Water	Water	Water	Water
Laser dimension (mm)	320x272x92 mm	435x439x160 mm	435x439x160 mm	473x485x82 mm	485x473x120 mm	485x473x120 mm	728x485x145 mm	728x485x145 mm	728x485x145 mm	728x485x145 mm
Beam profile	Gauss	Gauss	Gauss	Tophead	Tophead	Tophead	Tophead	Tophead	Tophead	Tophead

GT SERIES FIBER LASER

- All-in-one machine without fiber optic output
- Suitable for 3C battery laser welding
- Excellent for laser cutting
- High-speed laser marking
- High power
- Maintenance-free

GZTECH FIBER LASER
F-120-GT-PRO+ WATER-COOLED

SPECIFICATION

Product Name	F-120-GT-10-N2-Pro	F-120-GT-10-N2-Pro+	F-180-GT-10-N2-Pro+	F-200-GT-10-N2-Pro	YFPP-20-GT150	YFPP-50-GT150	YFPN-120-GT
Wavelength	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm
Output power	120 W	120 W	180 W	200 W	20 W	50 W	120 W
Max. pulse energy	1 mJ	1 mJ	1 mJ	1 mJ	1 mJ	1 mJ	1 mJ
Range of power	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %
Repetition frequency	1-3000 kHz	1-3000 kHz	1-3000 kHz	1-3000 kHz	1-3000 kHz	1-3000 kHz	1-3000 kHz
Full power frequency	120-3000 kHz	130-3000 kHz	180-3000 kHz	200-3000 kHz	80-3000 kHz		130-3000 kHz
Pulse width	2-50 ns	2-20 ns	2-50 ns	2-50 ns	0.2-500 ns	0.2-500 ns	2-50 ns
Power instability	<3 %	<3 %	<3 %	<5 %	<5 %	<5 %	<3 %
Beam quality M^2	<1.4 M^2	<1.4 M^2	<1.4 M^2	<1.4 M^2	<1.5 M^2	<1.5 M^2	<1.4 M^2
Laser switching ON/OFF time	<20 μs	<20 μs	<20 μs	<20 μs	<50 μs	<20 μs	<20 μs
Net weight	<13 kg	<13 kg	<13 kg	<17 kg	<15 kg	<15 kg	<15 kg
Spectral width @3dB	<20 nm	<10 nm	<10 nm	<15 nm	<20 nm	<20 nm	<15 nm
Beam diameter	10-12 mm	3 mm	10-12 mm	10 mm	7 mm	7 mm	10 mm
Delivery cable	none	none	none	none	2 m	2 m	3 m
Supply voltage DC	48 V	48 V	48 V	48 V	24 V	24 V	48 V
Current consumption	<10 A	<10 A	<16 A	<16 A	<5 A	<14 A	<10 A
Power consumption	<480 W	<480 W	<768 W	<748 W	<120 W	<336 W	<480 W
Operating temperature	0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C	0-40 °C
Storage temperature	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C
Cooling methode	Water	Water	Water	Water	Air	Water	Water
Laser dimension (mm)	429x296x70 mm	429x296x70 mm	424x296x72 mm	469x296x70 mm	339x302x96 mm	339x302x96 mm	429x296x70 mm

GREEN NANOSECOND FIBER LASER

- Excellent for laser glass drilling
- Excellent for laser micro- and precision engraving
- High reliability
- Maintenance-free

GZTECH GREEN FIBER LASER
YFPN-40-GR WATER-COOLED

SPECIFICATION

Product Name (YFPN)	40-GR	100-GR	200-GR
Wavelength	532 nm	532 nm	532 nm
Output power	40 W	100 W	200 W
Max. pulse energy	30 mJ	30 mJ	30 mJ
Range of power	0-100 %	0-100 %	0-100 %
Repetition frequency	100-3000 kHz	100-1500 kHz	100-3000 kHz
Pulse width	1.5 ns	20 ns	20 ns
Power instability	<5 %	<5 %	<5 %
Beam quality M^2	<1.2 M^2	<1.2 M^2	<1.2 M^2
Laser switching ON/OFF time	<20 µs	<20 µs	<20 µs
Net weight	<25 kg	<25 kg	<25 kg
Spectral width @3dB	<1 nm	<1 nm	<1 nm
Beam diameter	1.5 mm	2.5 mm	2.5 mm
Delivery cable	2 m	3 m	3 m
Supply voltage DC	48 V	48 V	48 V
Current consumption	<10 A	<10 A	<10 A
Power consumption	<480 W	<480 W	<960 W
Operating temperature	0-40 °C	0-40 °C	0-40 °C
Storage temperature	-10-60 °C	-10-60 °C	-10-60 °C
Cooling methode	Air	Water	Water
Laser dimension (mm)	420x318x75 mm	420x318x75 mm	420x318x75 mm

PICOSECOND FIBER LASER

- Excellent for laser cutting applications
- Excellent for laser marking
- High repetition rate
- Maintenance-free

GZTECH PICO FIBER LASER
YFPP-50-GR WATER-COOLED

SPECIFICATION

Product Name (YFPP)	50-GR	50-IR-030200
Wavelength	532 nm	1064 nm
Spectral width	<1 nm	<1 nm
Maximum single pulse energy	0.75 μJ	0.1 μJ
Maximum peak power	75 kW	100 kW
Average power	50 W	50 W
Power range	0-100 %	0-100 %
Frequency adjustment range	70 MHz	50 MHz
Laser Switching ON/OFF time	<20 μs	<20 μs
Pulse width	10 ps	10 ps
Output power instability	<5 %	<5 %
Beam quality M^2	<1.2 M^2	<1.3 M^2
Beam ellipticityy	>90 %	>90 %
Polarization	Linear	Linear
Anti high reflection	Yes	Yes
Power supply	48 VDC	48 VDC
Working current	<10 A	<10 A
Power consumption	<480 W	<600 W
Recommended power supply	>600 W	>600 W
Ambient temperature	15-35 °C	15-35 °C
Cooling capacity	>600 W	>600 W
Water flow	>6 l/min	>6 l/min
Net weight	27 kg	35 kg
Dimension (mm)	670x305x111 mm	670x305x111 mm

GZTECH

DPSS LASER

Get expert advice from us on DPSS laser systems by GZTech. Our DPSS laser portfolio includes both nanosecond and picosecond DPSS lasers, available as UV lasers, green lasers, and infrared lasers.

SOLID-STATE NANOSECOND UV LASER

- Compact design
- Laser marking on the fly
- Laser microprocessing
- Excellent beam quality
- Long service life
- Wide range of applications

GZTECH DPSS LASER
S-5-355-N1A AIR-COOLED

SPECIFICATION

Product Name (S)	3-355-N1A	S-5-355-N1A	S-5-355-SE	S-5-355-N1-PRO	S-10-355-N1	S-15-355-N1	S-20-355-N1	S-25-355-HF	S-30-355-N1	S-40-355-N1
Wavelength	355 nm	355 nm	355 nm	355 nm	355 nm	355 nm	355 nm	355 nm	355 nm	355 nm
Output power	3W@40 kHz	5W@40 kHz	5W@40 kHz	5W@50 kHz	10W@60 kHz	15W@60 kHz	20W@60 kHz	25W@80 kHz	30W@50 kHz	40W@50 kHz
Max. pulse energy	75μJ@40 kHz	125μJ@40 kHz	125μJ@40 kHz	100μJ@50 kHz	160μJ@60 kHz	250μJ@60 kHz	285μJ@70 kHz	312μJ@80 kHz	600μJ@50 kHz	800μJ@50 kHz
Range of power	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %
Repetition frequency	20-200 kHz	30-200 kHz	30-200 kHz	40-200 kHz	50-200 kHz	50-200 kHz	50-200 kHz	80-300 kHz	40-200 kHz	40-200 kHz
Power instability	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%
Beam quality	<1.2 M^2	<1.3 M^2	<1.3 M^2	<1.3 M^2	<1.3 M^2	<1.3 M^2	<1.3 M^2	<1.3 M^2	<1.3 M^2	<1.3 M^2
Pulse stability	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%
Pulse width	<15ns@40 kHz	<16ns@40 kHz	<15ns@40 kHz	<15ns@50 kHz	<14ns@60 kHz	<16ns@60 kHz	<15ns@70 kHz	<26ns@80 kHz	<25ns@50 kHz	<25ns@50 kHz
Spot roundness	<90 %	<90 %	<90 %	<90 %	<90 %	<90 %	<90 %	<90 %	<90 %	<90 %
Spatial Mode	TEMoo	TEMoo	TEMoo	TEMoo	TEMoo	TEMoo	TEMoo	TEMoo	TEMoo	TEMoo
Divergence angle	<2 mrad	<2 mrad	<2 mrad	<2 mrad	<2 mrad	<2 mrad	<2 mrad	<2 mrad	<2 mrad	<2 mrad
Pointing stability (8h)	<25 μrad/°C	<25 μrad/°C	<25 μrad/°C	<25 μrad/°C	<25 μrad/°C	<25 μrad/°C	<25 μrad/°C	<25 μrad/°C	<25 μrad/°C	<25 μrad/°C
Beam diameter (10x)	4.5 mm	5 mm	5 mm	5 mm	6 mm	6 mm	8 mm	8 mm	8 mm	8 mm
Supply voltage DC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC	48 VDC	48 VDC	48 VDC
Current consumption	<5 A	<10 A	<5 A	<10 A	<10 A	<10 A	<10 A	<12 A	<12 A	<12 A
Power consumption	<120 W	<240 W	<120 W	<240 W	<240 W	<240 W	<240 W	<576 W	<576 W	<576 W
Operating temperature	5-35 °C	5-35 °C	5-35 °C	5-35 °C	5-35 °C	5-35 °C	5-35 °C	5-35 °C	5-35 °C	5-35 °C
Storage temperature	-10-50 °C	-10-50 °C	-10-50 °C	-10-50 °C	-10-50 °C	-10-50 °C	-10-50 °C	-10-50 °C	-10-50 °C	-10-50 °C
Colling method	Air	Air	Water	Water	Water	Water	Water	Water	Water	Water
Dimensions (mm)	296x140x149 mm	296x140x149 mm	263x120x80 mm	296x140x149 mm	400x160x130 mm	400x160x130 mm	400x160x130 mm	400x160x130 mm	480x210x140 mm	480x210x140 mm
Net weight	<10 kg	<10 kg	<10 kg	<10 kg	<13 kg	<13 kg	<13 kg	<20 kg	<20 kg	<20 kg

SOLID-STATE NANOSECOND GREEN LASER

- Compact design
- Laser PCB cutting
- Laser glass drilling
- Laser microprocessing
- Easy commissioning
- High pulse energy
- Excellent beam quality

GZTECH DPSS LASER
S-25-532-N1

SPECIFICATION

Product Name (S)	10-532-N1A	25-532-N1	60-532-N1
Wavelength	532 nm	532 nm	532 nm
Output power	10W@40 kHz	25W@60 kHz	60W@50 kHz
Max. pulse energy	250μJ@40 kHz	416μJ@60 kHz	1.2mJ@50 kHz
Range of power	0-100 %	0-100 %	0-100 %
Repetition frequency	30-200 kHz	50-200 kHz	50-200 kHz
Power instability	<3%	<3%	<3%
Beam quality	<1.3 M^2	<1.3 M^2	<1.3 M^2
Pulse stability	<3%	<3%	<3%
Pulse width	<15ns@40 kHz	<18ns@60 kHz	<25ns@50 kHz
Spot roundness	<90 %	<90 %	<90 %
Spatial Mode	TEMoo	TEMoo	TEMoo
Divergence angle	<2 mrad	<2 mrad	<2 mrad
Pointing stability (8h)	<25 μrad/°C	<25 μrad/°C	<25 μrad/°C
Beam diameter (10x)	5 mm	6 mm	6 mm
Supply voltage DC	24 VDC	24 VDC	48 VDC
Current consumption	<6 A	<10 A	<12 A
Power consumption	<150 W	<240 W	<576 W
Operating temperature	5-35 °C	5-35 °C	5-35 °C
Storage temperature	-10-50 °C	-10-50 °C	-10-50 °C
Colling method	Air	Water	Water
Dimensions (mm)	260x140x150 mm	400x160x130 mm	480x210x138 mm
Net weight	<10 kg	<12 kg	<20 kg

SOLID-STATE PICOSECOND LASER

- Compact design
- Long service life
- Infrared laser, green laser, UV laser
- High beam quality
- Laser photovoltaic processing
- Laser microprocessing
- Laser glass processing

GZTECH PICOSECOND DPSS LASER
S-60-532-P1

SPECIFICATION

Product Name (S)	10-355-P1	20-532-P1	30-1064-P1
Wavelength	355 nm	532 nm	1064 nm
Output power	10W@1 MHz	20W@1MHz	>30 W
Repition Rate	single-2 MHz	single-2 MHz	single-2 MHz
Pulse width	<15 ps	<15 ps	<15 ps
Output power instability	<3%	<3%	<3%
Beam quality M^2	<1.2 M^2	<1.2 M^2	<1.2 M^2
Spot roundness	>90 %	>90 %	>90 %
Beam diameter	2 mm	2 mm	2 mm
Polarization direction	horizontal	vertical	horizontal
Polarization ratio	>100:1	>100:1	>100:1
Divergence angle	<1 mrad	<1 mrad	<2 mrad
Warm up time	<10 min	<30 min	<10 min
Power supply	24 VDC	24 VDC	24 VDC
Working current	<20 A	<25 A	<20 A
Power consumption	<480 W	<600 W	<480 W
Recommended power supply	>600 W	>800 W	>600 W
Ambient temperature	15-35 °C	15-35 °C	15-35 °C
Storage temperature	-10-50 °C	-10-50 °C	-10-50 °C
Humidity	<90 %	<90 %	<90 %
Cooling capacity	>1000 W	>1000 W	>1000 W
Water flow	>6 l/min	>6 l/min	>6 l/min
Net weight	27 kg	35 kg	28 kg
Dimension (mm)	541x314x131 mm	541x314x131 mm	800x500x300 mm

DAVI

CO_2 LASER

Rely on our expert advice when it comes to CO_2 laser systems from DAVI – a brand whose quality and performance our customers have trusted for years. Our DAVI CO_2 laser portfolio includes both water-cooled and air-cooled CO_2 laser systems.

DAVI CO_2 LASER

- Choice between air- and water-cooling
- Very compact design
- 0–100% duty cycle
- Fast response times
- Very attractive price
- Exceptional durability

DAVI
CO_2 RF LASER SOURCE

SPECIFICATION

Product Name	DAVI D30	DAVI D30i	DAVI D55	DAVI D55i	DAVI T80
Center Wavelength	10600 nm	9300 nm	10600 nm	9300 nm	10600 nm
Average Power Energy	30 W	17 W	55 W	35 W	80 W
Repetition Rate	0-25 kHz	0-25 kHz	0-25 kHz	0-25 kHz	0-100 KHz
Mode	>98%TEMoo	>98%TEMoo	>98%TEMoo	>98%TEMoo	>98%TEMoo
Range of Power	0-100 %	0-100 %	0-100 %	0-100 %	0-100 %
Beam Divergence	7.5 mrad	7.5 mrad	7.5 mrad	7.5 mrad	5.2 mrad
Power instability	5%	5%	5%	5%	5%
Beam diameter	1.8 mm	1.8 mm	1.8 mm	1.8 mm	2.5 mm
Beam quality	$<1.2\ M^2$	$<1.2\ M^2$	$<1.2\ M^2$	$<1.2\ M^2$	$<1.2\ M^2$
warming up-time	<10 min	<10 min	<10 min	<10 min	<10 min
Rise of fall time	75 µs	75 µs	75 µs	75 µs	75 µs
Polarization	>100 to 1 fixed linear	>100 to 1 fixed linear	>100 to 1 fixed linear	>100 to 1 fixed linear	>100 to 1 fixed linear
Supply voltage	48 VDC	48 VDC	48 VDC	48 VDC	48 VDC
Current consumption	<12 A	<12 A	<20 A	<20 A	<28 A
Operating temperature	5-40 °C	5-40 °C	5-40 °C	5-40 °C	5-40 °C
Storage temperature	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C	-10-60 °C
Cooling method	Air	Air	Air	Air	Air
Dimensions	357x92x142 mm	357x92x142 mm	537x92x142 mm	537x92x142 mm	618x200x157 mm
Weight	<6 kg	<6 kg	<10 kg	<10 kg	<15 kg

innoSCAN
GALVANOMETER

Trust our innoSCAN II galvanometer scanners for top performance. Custom-made to your needs with high writing speeds, low gain drift, and optional coatings, engravings, and accessories included.

INNOSCAN II GALVANOMETER

- High precision
- Very compact construction
- Sealed housing
- Competitive price

INNOSCAN II W
GALVANOMETER SCANNERS WITH INPUT APERTURES
FROM 8.5 MM TO 30 MM

SPECIFICATION

Product Name (innoSCAN)	RR-10	II-8,5	II-10 mini	II-10	II-12	II-14	II-16 (W)	II-20 (W)	II-30 (W)
Input Aperture		8.5 mm		10 mm	12 mm	14 mm	16 mm	20 mm	30 mm
Wavelength	355, 532, 1064, 10600 nm								
Tracking error time		0.11 ms		0.125 ms	0.18 ms		0.26 ms	0.32 ms	0.58 ms
Writting Speed [1 2]		>1000 cps / 12.000 mm/s		>840 cps / 10.000 mm/s	>620 cps / 6.000 mm/s	>520 cps / 5.000 mm/s	>450 cps	> 320 cps	> 260 cps
Positioning Speed [1]		>15 m/s		>12 m/s	>7 m/s		>6 m/s	>5 m/s	>4 m/s
Typical Defection	± 0.35 rad								
Resolution	16 bit								
Repeatability (RMS)	<20 µrad								50 µrad/K
Max. Gaindrift [3]	100 ppm/K								
Max. Offsetdrift [3]	50 µrad/K								
Long-Term Drift (8h) [3]	< 0.3 mrad								
Zero Offset [4]	< 6 mrad								
Digital Interface	XY2-100 Protocol								
Analog Interface	±5 V								
Ambient Temperature	+15 to +35 °C								
Storage Temperature	-20 to +60 °C								
Humidity	≤80% Non-condensing								
Voltage / Current	±15 VDC / max. 3A								
Weight		ca. 1,1 kg		ca. 1,85 kg	ca. 1,85 kg	ca. 2,25 kg	ca. 3,25 kg	ca. 4,2 kg	ca. 4,75 kg
Dimensions (L × B × H in mm)		109x88x80		114x96.5x93,7	118x100x95,1	133,3x99.3x105,4	156x115x121	181x120x148	195x140x151
Tube diameter (outside)		/		/	/	/	4 mm		
Pressure		/		/	/	/	10 kPa		

[1] with F-Theta-lens, f = 160 mm
[2] Single-stroke font, 1 mm height
[3] Drift per axis
[4] After warming-up

LASER OPTICS
F-THETA

We offer a wide range of laser optics tailored to your needs. From F-Theta lenses and beam expanders to focusing lenses and beam combiners — we provide the ideal optics for every laser application, including telecentric lenses and partial or full quartz lenses.

F-THETA LENSES

- Any Wavelength
- BK7, Fused Silica, Telecentric
- possibility of developing new lens
- Competitive price

F-THETA LENS
AVAILABLE IN ALL SIZES AND TYPES

F-Theta lenses 355 nm

Product Name	Focal Length (mm)	Wavelength (nm)	Scan Field (mm)	Entrance Diameter (mm)	Focus Size (μm)	Material	Telezntric	Thread
SH-355-13-34-7	34	355	15x15	7	4	Fused Silica	No	M85X1
SH-355-50-63-7	63	355	50x50	7	5.8	Fused Silica	No	M85X1
SH-355-70-100-7	100	355	70x70	7	10	Fused Silica	No	M85X1
SHT-355-65-110-8	110	355	65x65	8	11	Fused Silica	Yes	M85X1
SH-355-100-160-8	160	355	100x100	8	13	Fused Silica	No	M85X1
SHT-355-100-160-8	160	355	100x100	8	13	Fused Silica	Yes	M85X1
SH-355-140-210-8	210	355	140x140	8	17	Fused Silica	No	M85X1
SH-355-175-254-8	254	355	175x175	8	21	Fused Silica	No	M85X1
SH-355-200-290-10	290	355	200x200	10	19	Fused Silica	No	M85X1
SH-355-220-330-8	330	355	220x220	8	27	Fused Silica	No	M85X1
SH-355-300-420-8	420	355	300x300	8	34	Fused Silica	No	M85X1
SH-355-360-510-8	510	355	360x360	8	42	Fused Silica	No	M85X1
SH-355-400-650-8	650	355	400x400	8	53	Fused Silica	No	M85X1
SH-355-550-750-8	750	355	550x550	8	61	Fused Silica	No	M85X1

F-Theta lenses 532 nm

Product Name	Focal Length (mm)	Wavelength (nm)	Scan Field (mm)	Entrance Diameter (mm)	Focus Size (µm)	Material	Telezntric	Thread
SH-532-50-63-12	63	532	50x50	12	5.1	BK7	No	M85X1
SHT-532-65-100-12	100	532	65x65	12	8.1	Fused Silica	Yes	M85X1
SH-532-70-100-12	100	532	70x70	12	8.1	BK7	No	M85X1
SHT-532-65-110-8	110	532	65x65	8	15	Fused Silica	Yes	M85X1
SH-532-110-160-12	160	532	110x110	12	13	BK7	No	M85X1
SH-532-145-210-12	210	532	145x145	12	17	BK7	No	M85X1
SH-532-175-254-12	254	532	175x175	12	21	BK7	No	M85X1
SH-532-230-330-12	330	532	230x230	12	27	BK7	No	M85X1
SH-532-300-420-12	420	532	300x300	12	35	BK7	No	M85X1
SH-532-350-500-12	500	532	350x350	12	41	BK7	No	M85X1

F-Theta lenses 915–980 nm

Product Name	Focal Length (mm)	Wavelength (nm)	Scan Field (mm)	Entrance Diameter (mm)	Focus Size (µm)	Material	Telezntric	Thread
SH-980-70-100-20-2Q	100	980	70x70	20	11	BK7+FS	No	M85X1
SHT-980-100-160-12-2Q	160	980	100x100	12	25	BK7+FS	Yes	M85X1
JGT-980-150-254-10-FS	254	980	150x150	10	49.8	Fused Silica	Yes	M85X1
SH-980-160-254-20-FS	254	980	160x160	20	25	Fused Silica	No	M85X1
SH-980-220-330-20-2Q	330	980	220x220	20	33	BK7+FS	No	M85X1
SH-980-220-330-20-FS	330	980	220x220	20	33	Fused Silica	No	M85X1
SH102-915-255-420-30	420	915	255x255	30	24	Fused Silica	No	M102x1
SH-980-280-420-20-FS	420	980	280x280	20	41	Fused Silica	No	M85x1
SH112-915-415-670-30-FS	670	915	415x415	30	51	Fused Silica	No	M112x1
SH-980-450-650-20-2Q	650	980	450x450	20	58	BK7+FS	No	M85x1
SH-980-450-650-20-FS	650	980	450x450	20	58	Fused Silica	No	M85x1

F-Theta lenses 1064 nm

Product Name	Focal Length (mm)	Wavelength (nm)	Scan Field (mm)	Entrance Diameter (mm)	Focus Size (µm)	Material	Telezntric	Thread
SH39-1064-23-40-8	40	1064	23x23	8	10	BK7	No	M39X1
SH39-1064-22-50-8	50	1064	22x22	8	13	BK7	No	M39X1
SH-1064-50-63-12	63	1064	50x50	12	11	BK7	No	M85X1
SH39-1064-56-80-8	80	1064	56x56	8	20	BK7	No	M39X1
SH-1064-70-100-12	100	1064	70x70	12	17	BK7	No	M85X1
SH39-1064-68-100-8	100	1064	68x68	8	25	BK7	No	M39X1
SHT-1064-65-100-12-FS	100	1064	65x65	12	17	Fused Silica	Yes	M85X1
SH-1064-70-100-20	100	1064	70x70	20	10	BK7	No	M85X1
SH79-1064-70-100-20	100	1064	70x70	20	10	BK7	No	M79X1
SHT-1064-55-125-16-FS	125	1064	55x55	16	15	Fused Silica	Yes	M85X1
SH-1064-110-160-12	160	1064	110x110	12	26	BK7	No	M85X1
SH39-1064-105-160-8	160	1064	105x105	8	39	BK7	No	M39X1
SHT-1064-100-160-12-FS	160	1064	100x100	12	26	Fused Silica	Yes	M85X1
SH-1064-110-160-20	160	1064	110x110	20	16	BK7	No	M85X1

SH79-1064-110-160-20	160	1064	110x110	20	16	BK7	No	M79X1
SH-1064-110-170-20-FS	170	1064	100x100	20	17	Fused Silica	No	M85X1
SH-1064-100-170-30-FS	210	1064	145x145	30	11	Fused Silica	No	M95X1, M102X1
SH-1064-145-210-12	210	1064	150x150	12	34	BK7	No	M85X1
SH-1064-150-210-20	210	1064	150x150	20	21	BK7	No	M85X1
SH79-1064-150-210-20	210	1064	150x150	20	21	BK7	No	M79X1
SH-1064-150-210-20-FS	225	1064	150x150	20	21	Fused Silica	No	M85X1
SH-1064-150-225-12	254	1064	175x175	12	37	BK7	No	M85X1
SH-1064-175-254-12	254	1064	175x175	12	41	BK7	No	M85X1
SH-1064-175-254-12-FS	254	1064	175x175	12	44	Fused Silica	No	M85X1
SH-1064-175-254-20	254	1064	175x175	20	25	BK7	No	M85X1
SH79-1064-175-254-20	254	1064	175x175	20	25	BK7	No	M85X1
SH-1064-175-254-20-FS	254	1064	175x175	20	25	Fused Silica	No	M85X1
SH-1064-175-254-30-FS	254	1064	160x160	30	17	Fused Silica	No	M95X1, M102X1
SH39-1064-160-254-8	290	1064	200x200	8	62	BK7	No	M39X1
SH-1064-200-290-12	290	1064	200x200	12	47	BK7	No	M85X1
SH-1064-200-290-12-FS	330	1064	230x230	12	47	Fused Silica	No	M85X1
SH-1064-230-330-12	330	1064	220x220	12	54	BK7	No	M85X1
SH-1064-220-330-20	330	1064	220x220	20	33	BK7	No	M85X1
SH79-1064-220-330-20	330	1064	220x220	20	33	BK7	No	M79X1
SH-1064-220-330-20-FS	330	1064	200x200	20	33	Fused Silica	No	M85X1
SH-1064-200-330-30-FS	350	1064	240x240	30	22	Fused Silica	No	M95X1, M102X1
SH-1064-240-350-20	350	1064	240x240	20	34	BK7	No	M85X1
SH79-1064-240-350-20	380	1064	250x250	20	34	BK7	No	M79X1
SH-1064-250-380-12	420	1064	300x300	12	62	BK7	No	M85X1
SH-1064-300-420-12	420	1064	300x300	12	69	BK7	No	M85X1
SH-1064-300-420-20	420	1064	300x300	20	41	BK7	No	M85X1
SH79-1064-300-420-20	420	1064	300x300	20	41	BK7	No	M79X1
SH-1064-300-420-20-FS	420	1064	255x255	20	41	Fused Silica	No	M85X1
SH-1064-255-420-30-FS	500	1064	360x360	30	28	Fused Silica	No	M95X1, M102X1
SH-1064-360-500-20	500	1064	360x360	20	49	BK7	No	M85X1
SH79-1064-360-500-20	500	1064	360x360	20	49	BK7	No	M79X1
SH-1064-360-500-20-FS	580	1064	400x400	20	49	Fused Silica	No	M85X1
SH-1064-400-580-20	580	1064	360x360	20	57	BK7	No	M85X1
SH79-1064-400-580-20	650	1064	450x450	20	57	BK7	No	M79X1
SH-1064-450-650-20	650	1064	450x450	20	64	BK7	No	M85X1
SH79-1064-450-650-20	650	1064	450x450	20	57	BK7	No	M85X1
SH-1064-450-650-20-FS	800	1064	560x560	20	64	Fused Silica	No	M85X1
SH-1064-560-800-15	800	1064	560x560	20	104	BK7	No	M85X1
SH79-1064-560-800-20	900	1064	600x600	20	78	BK7	No	M79X1
SH-1064-600-900-20	900	1064	600x600	20	88	BK7	No	M85X1
SH79-1064-600-900-20	900	1064	600x600	20	88	BK7	No	M79X1
SH-1064-600-900-20-FS	900	1064	600x600	20	88	Fused Silica	No	M85X1

F-Theta Lenses 10600 nm (CO_2)

Product Name	Focal Length (mm)	Wavelength (nm)	Scan Field (mm)	Entrance Diameter (mm)	Focus Size (µm)	Material	Telezntric	Thread
SH-10,6-46-50-75-15	75	10600	50x50	15	97	ZnSe	No	M85X1
SH-10,6-48-70-100-14	100	10600	70x70	14	146	ZnSe	No	M85X1
SH-10,6-48-110-160-14	160	10600	110x110	14	220	ZnSe	No	M85X1
SH-10,6-48-150-210-14	210	10600	150x150	14	306	ZnSe	No	M85X1
SH-10,6-48-175-254-14	254	10600	175x175	14	370	ZnSe	No	M85X1
SH-10,6-48-200-300-14	300	10600	200x200	14	437	ZnSe	No	M85X1
SH-10,6-48-300-420-14	420	10600	300x300	14	622	ZnSe	No	M85X1

F-Theta lenses specifically for laser cleaning applications

Product Name	Focal Length (mm)	Wavelength (nm)	Scan Field (mm)	Entrance Diameter (mm)	Focus Size (µm)	Material
SH-CL-1064-100-160-10-FS	160	1064	100	10	31	Fused Silica
SH-CL-1064-140-210-10-FS	210	1064	140	10	41	Fused Silica
SH-CL-1064-180-254-10-FS	254	1064	180	10	50	Fused Silica
SH-CL-1064-300-420-10-FS	420	1064	300	10	51	Fused Silica
SH-CL-1064-70-100-20-FS	100	1064	70	20	16	Fused Silica
SH-CL-1064-140-160-20-FS	160	1064	140	20	26	Fused Silica
SH-CL-1064-200-210-20-FS	210	1064	200	20	30	Fused Silica
SH-CL-1064-250-254-20-FS	254	1064	250	20	35	Fused Silica

TEYU

COOLING SYSTEMS

Our product range includes industrial cooling systems as well as special fiberlaser coolers, CO2 Laser coolers and additional cooling systems for machine tools.

FIBER LASER CHILLER

CWFL-1000 | CWFL-1500 | CWFL-2000

- Dual cooling circuit
- Active cooling
- Temperature stability: ±0.5 °C
- Temperature control range: 5 °C to 35 °C
- User-friendly controller interface
- Integrated alarm functions
- Ready for immediate use

TEYU FIBER LASER CHILLER
CWFL-1000

SPECIFICATION

Product Name	CWFL-1000ANPTY	CWFL-1500ANPTY	CWFL-2000ANPTY
Voltage	AC 1P 220-240V		
Frequency	50Hz		
Current	2.5~14.6A	2.5~18.8A	3.4~21.5A
Max. power consumption	2.56kW	3.28kW	3.63kW
Heater power	0.55kW+0.6kW	0.4kW+0.6kW	0.6kW+0.6kW
Precision	±0.5℃		
Reducer	Capillary		
Pump power	0.37kW		0.55kW
Tank capacity	14L		
Inlet and outlet	Rp1/2"+Rp1/2"		
Max pump pressure	3.6bar		4.4bar
Rated flow	2L/min + >12L/min	2L/min + >15L/min	2L/min+>20L/min
N.W.	63Kg	70Kg	75Kg

FIBER LASER CHILLER

CWFL-3000 | CWFL-4000 | CWFL-6000

- Precise cooling for stable performance
- High-efficiency cooling system
- Real-time monitoring & alarms
- RS485 remote control support
- Energy-saving design
- Compact and easy to use
- Certified for global standards

TEYU FIBER LASER CHILLER

CWFL-3000

SPECIFICATION

Product Name	CWFL-3000ANPTY	CWFL-3000ENPTY	CWFL-4000ENPTY	CWFL-6000ENPTY
Voltage	AC 1P 220-240V	AC 3P 380V		
Frequency	50Hz			
Current	5~33.3A	2.1~14A	1.7~18.8A	2.1~21.1A
Max. power consumption	5.76kW	6.08kW	8.16kW	9.46kW
Heater power	0.6kW+1.8kW		1kW+1.8kW	0.6kW+1.8kW
Precision	±0.5℃		±1℃	
Reducer	Capillary			
Pump power	0.75kW			1kW
Tank capacity	22L		40L	70L
Inlet and outlet	Rp1/2"+Rp1"			
Max pump pressure	5bar			5.9bar
Rated flow	2L/min+>30L/min		2L/min +>40L/min	2L/min+>50L/min
N.W.	93Kg	105Kg	135Kg	178Kg

FIBER LASER CHILLER

CWFL-8000 |CWFL-12000 |CWFL-20000 |CWFL-30000

- Dual cooling circuit
- Active cooling
- ±1 °C temperature stability
- 5 °C–35 °C control range
- R-410A refrigerant
- Digital control panel
- RS-485 Modbus communication

TEYU FIBER LASER CHILLER
CWFL-8000

SPECIFICATION

Product Name	CWFL-8000ENPTY	CWFL-12000ENPTY	CWFL-20000ETS04TY	CWFL-30000ETTY
Voltage	AC 3P 380V			
Frequency	50Hz			
Current	2.1~21.6A	4.3~36.5A	5.3~47.2A	10.6~61.2A
Max. power consumption	11.34kW	18.32kW	28.86kW	31.72kW
Heater power	0.6kW+2.4kW	0.6kW+3.6kW	1kW+7.5kW	1.8kW+5.4kW
Precision	±1℃			±1℃
Reducer	Capillary			
Pump power	1.1kW	2.2kW	3.5kW	3.5kW
Tank capacity	87L	170L		250L
Inlet and outlet	Rp1/2"+Rp1"	Rp1/2"+Rp1-1/4"	Rp1/2"+ Rp1-1/2"	Rp1/2"+ Rp1-1/4"*2
Max pump pressure	6.15bar	7.5bar	8.5bar	8.5bar
Rated flow	2L/min+>65L/min	2.5L/min+>100L/min	5L/min+>150L/min	10L/min+>300L/min
N.W.	198Kg	306Kg	315Kg	540Kg

FIBER LASER CHILLER

CWFL-40000 | CWFL-60000 | CWFL-80000 | CWFL-120000

- Dual cooling circuit
- Active cooling
- ±1.5 °C temperature stability
- 5–35 °C temperature control range
- R-32 / R-410A refrigerant
- Digital control panel
- RS-485 Modbus communication

TEYU FIBER LASER CHILLER
CWFL-40000

SPECIFICATION

Product Name	CWFL-40000ETTY	CWFL-60000ETTY	CWFL-80000ETTY	CWFL-120000ETTY
Voltage	AC 3P 380V			
Frequency	50Hz			
Current	10.6~83.8A	34.3~132.5A	30.2~159.5A	34.3~132.5A
Max. power consumption	32.16kW	66.88kW	82.19kW	66.88kW
Heater power	1.8kW+12kW	1.8kW+10.8kW	12kW+5.4kW	10.8kW+1.8kW
Precision	±1℃			
Reducer	Capillary			
Pump power	3.5kW	5.5kW+5.5kW	5.5kW+5.5kW+0.75kW	5.5kW+5.5kW
Tank capacity	340L	600L	600L	
Inlet and outlet	Rp 1/2"+Rp1-1/2"*2	Rp 1/2"+Rp 2-1/2"*2	Rp 1/2"+Rp 2"*2	
Max pump pressure	8.5bar	6.9bar+6.9bar	6.9bar+6.9bar+5.4bar	7bar
Rated flow	10L/min+ > 400L/min	10L/min+>600L/min*2	H: 10L/min, L: >800L/min	10L/min+>600L/min
N.W.	712kg	1292Kg	1492Kg	1292Kg

FIBER LASER CHILLER

RMFL-1500 | RMFL-2000 | RMFL-3000

- Rack mount design
- Dual cooling circuit
- ±0.5 °C temperature stability
- 5–35 °C temperature control range
- R-32 / R-410A refrigerant
- Digital control panel
- High flexibility and mobility

TEYU FIBER LASER CHILLER
RMFL-1500

SPECIFICATION

Product Name	RMFL-1500ANT03TY	RMFL-2000ANT03TY	RMFL-3000ANTTY
Voltage	AC 1P 220-240V		
Frequency	50Hz		
Current	1.2~11.6A	1.5~12.1A	2.3~18.3A
Max. power consumption	2.53kW	2.81kW	3.91kW
Compressor power	1.18kW	1.36kW	2.07kW
Refrigerant	R-32/R-410A		R-410A
Precision	±0.5℃		
Reducer	Capillary		
Pump power	0.26kW	0.32kW	0.48kW
Tank capacity	16L		
Inlet and outlet	Φ6+Φ12 Fast connector		Rp1/2"+Rp1/2"
Max. pump pressure	3bar	4bar	4bar
Rated flow	2L/min+ >12L/min	2L/min+> 15L/min	2L/min+>25L/min
N.W.	43Kg	51Kg	59Kg

FIBER LASER CHILLER

CWFL-1500ANW |CWFL-2000ANW | CWFL-3000ENW

- Dual cooling circuit
- Active cooling
- ±1 °C temperature stability
- 5–35 °C temperature control range
- All-in-one design
- Lightweight & easy to carry
- User-friendly & space-saving

TEYU ALL-IN-ONE CHILLER MACHINE
CWFL-1500ANW

SPECIFICATION

Product Name	CWFL-1500ANW12TY	CWFL-2000ANW16TY	CWFL-3000ENW12TY
Voltage	AC 1P 220-240V		AC 3P 380V
Frequency	50Hz		
Current	1.2~10.8A	1.5~10.8A	2.3~17.2A
Max. power consumption	2.33kW	2.32kW	3.68kW
Compressor power	1.28kW	1.2kW	1.8kW
Refrigerant	R-410A	R-32/R410a	
Precision	±1℃		
Reducer	Capillary		
Pump power	0.26kW	0.32kW	0.48kW
Tank capacity	10L		16L
Inlet and outlet	Φ6+Φ12 Fast connector		Φ6 Fast connector + Φ20 Barbed connector
Max. pump pressure	3bar	4bar	4.3bar
Rated flow	1.5L/min+ > 15L/min	1.5L/min+ > 15L/min	2L/min+ >20L/min
N.W.	48kg	49Kg	94kg

ULTRAFAST LASER CHILLER

CWUP-10 |CWUP-20|CWUP-30 |CWUP-40

- Intelligent water level detection
- Flow rate and temperature monitoring
- Coolant heating at low ambient temps
- Self-check with 12 alarm codes
- Toolless filter maintenance
- Optional quick-swap water filter
- RS485 Modbus RTU communication

TEYU ULTRAFAST LASER CHILLER
CWUP-10

SPECIFICATION

Product Name	CWUP-10AITY	CWUP-20AITY	CWUP-20ANPTY	CWUP-30ANTY	CWUP-40AN	CWUP-40AN5
Voltage	AC 1P 220-240V					
Frequency	50Hz					
Current	0.6~5.3A	0.6~7.7A	0.9~7.6A	2.3~9A	2.3~11.3A	3.4~21.4A
Max. power consumption	1.04kW	1.26kW	1.24kW	1.9kW	2.14kW	3.83kW
Compressor power	0.39kW	0.59kW	0.585kW	0.87kW	0.88kW	1.75kW
Nominal cooling capacity	2559Btu/h	4879Btu/h	5783Btu/h	8188Btu/h	10713Btu/h	17401Btu/h
	0.75kW	1.43kW	1.59kW	2.4kW	3.14kW	5.1kW
	644Kcal/h	1229Kcal/h	1457Kcal/h	2063Kcal/h	2699Kcal/h	4384Kcal/h
Refrigerant	R-134a	R-410A				
Precision	±0.1℃		±0.08℃	±0.1℃		
Reducer	Capillary					
Pump power	0.09kW		0.14kW	0.37kW		0.55kW
Tank capacity	6L		6L+1L	10L	14L	
Inlet and outlet	Rp1/2”					
Max. pump pressure	2.5bar		4bar	2.7bar		4.4bar
Max. pump flow	15L/min		17.5L/min	75L/min		
N.W.	24Kg	28Kg	30Kg	52Kg	58Kg	67Kg

ULTRAFAST LASER CHILLER

RMUP-300 | RMUP-500

- Low water level detection
- Low flow rate detection
- Over-temperature detection
- Coolant heating at low ambient temps
- 12 alarm code self-check display
- Tool-free filter maintenance
- RS485 Modbus RTU communication

TEYU ULTRAFAST LASER CHILLER
RMUP-300

SPECIFICATION

Product Name	RMUP-300AHTY	RMUP-500AITY
Voltage	AC 1P 220-240V	
Frequency	50Hz	
Current	0.5~5A	0.6~5.2A
Max. power consumption	0.84kW	0.98kW
Compressor power	0.21kW	0.32kW
Nominal cooling capacity	1296Btu/h	2217Btu/h
	0.38kW	0.65kW
	326Kcal/h	558Kcal/h
Refrigerant	R-134a	
Precision	±0.1℃	
Reducer	Capillary	
Pump power	0.05kW	0.09kW
Tank capacity	3L	5.5L
Inlet and outlet	Rp1/2"	
Max. pump pressure	1.2bar	2.5bar
Max. pump flow	13L/min	15L/min
N.W.	19Kg	21Kg

UV LASER CHILLER

CWUL-05 | CWUL-10

- 380 W cooling capacity
- Active cooling
- ±0.3 °C temperature stability
- 5–35 °C control range
- R-134a refrigerant
- Compact & lightweight design
- Easy maintenance & mobility

TEYU UV LASER CHILLER
CWUL-05

SPECIFICATION

Product Name	CWUL-05AHTY	CWUL-10AHTY	CWUL-10AITY
Voltage	AC 1P 220-240V		
Frequency	50Hz		
Current	0.5~4.2A	0.5~5.2A	0.4~5.1A
Max. power consumption	0.76kW	1kW	1.04kW
Compressor power	0.18kW	0.39kW	0.39kW
Nominal cooling capacity	1296Btu/h	2559Btu/h	2559Btu/h
	0.38kW	0.75kW	0.75kW
	326Kcal/h	644Kcal/h	644Kcal/h
Refrigerant	R-134a		
Precision	±0.3℃		
Reducer	Capillary		
Pump power	0.05kW	0.05KW	0.09KW
Tank capacity	6L		
Inlet and outlet	Rp1/2"		
Max. pump pressure	1.2bar		2.5bar
Max. pump flow	13L/min		15L/min
N.W.	20Kg	24Kg	

PASSIVE COOLING INDUSTRIAL COOLER
CW-3000

- 50 W/°C heat dissipation
- Passive cooling, no refrigerant
- High-speed fan
- 9 L reservoir
- Digital temperature display
- Built-in alarm functions
- Energy-saving & space-efficient

TEYU PASSIVE COOLING INDUSTRIAL COOLER
CW-3000

SPECIFICATION

Product Name	CW-3000TGTY	CW-3000TKTY
Voltage	AC 1P 220~240V	
Frequency	50Hz	
Current	0.4~0.7A	0.3~0.6A
Max. power consumption	0.07kW	0.11kW
Radiating capacity	50W/℃	
Max. pump pressure	1bar	7bar
Max. pump flow	10L/min	2L/min
Protection	Flow alarm	
Tank capacity	9L	
Inlet and outlet	OD 10mm Barbed connector	8mm Fast connector
N.W.	9Kg	11Kg

STANDARD INDUSTRIAL CHILLER

CW-5300 | CW-6000 | CW-6100 | CW-6200

- 2400 W cooling capacity
- Active cooling
- ±0.5 °C temperature stability
- 5–35 °C control range
- R-410A refrigerant
- Intelligent temperature controller
- Low maintenance & high reliability

TEYU STANDARD INDUSTRIAL CHILLER
CW-5300

SPECIFICATION

Product Name	CW-5300AHTY	CW-5300AITY	CW-5300ANTY	CW-6000AHTY	CW-6000AITY	CW-6000ANTY	CW-6100AITY	CW-6100ANTY	CW-6200AITY	CW-6200ANTY
Voltage	AC 1P 220-240V									
Frequency	50Hz									
Current	0.5~5.2A	0.4~5.1A	2.3~7A	0.5~5.2A	0.4~5.1A	2.3~7A	0.4~6.2A	2.3~8.1A	0.4~7.6A	2.1~10.1A
Max. power consumption	1.08kW	1.12kW	1.4kW	1.08kW	1.12kW	1.4kW	1.34kW	1.62kW	1.63kW	1.88kW
Compressor power	0.94kW		0.88kW	0.94kW	0.94kW	0.94kW	1.12kW	1.12kW	1.41kW	1.62kW
Nominal cooling capacity	8188Btu/h			10713Btu/h			13648Btu/h		17401Btu/h	
	2.4kW			3.14kW			4kW		5.1kW	
	2063Kcal/h			2699Kcal/h			3439Kcal/h		4384Kcal/h	
Pump power	0.05kW	0.09kW	0.37kW	0.05kW	0.09kW	0.37kW	0.09kW	0.37kW	0.09kW	0.37kW
Max. pump pressure	1.2bar	2.5bar	2.7bar	1.2bar	2.5bar	2.7bar	2.5bar	2.7bar	2.5bar	2.7bar
Max. pump flow	13L/min	15L/min	75L/min	13L/min	15L/min	75L/min	15L/min	75L/min	15L/min	75L/min
Refrigerant	R-410A									
Precision	±0.5℃									
Reducer	Capillary									
Tank capacity	12L						22L			
Inlet and outlet	Rp1/2"									
N.W.	37Kg	39Kg	44Kg	35Kg	36Kg	43Kg	53Kg	55Kg	58Kg	64Kg

STANDARD INDUSTRIAL CHILLER

CW-6260 | CW-6300 | CW-6500

- 9 kW cooling capacity
- Active cooling
- ±0.5 °C temperature stability
- 5–35 °C control range
- R-410A refrigerant
- Intelligent temperature controller
- Ready for immediate use

TEYU INDUSTRIAL CHILLER
CW-6260

SPECIFICATION

Product Name	CW-6260ANTY	CW-6300ANTY	CW-6300ENTY	CW-6500ENTY
Voltage	AC 1P 220–240V		AC 3P 380V	
Frequency	50Hz			
Current	3.4~21.6A	3.4~26.3A	1.2~12.6A	1.4~16.6A
Max. power consumption	3.56kW	5.24kW	5.52kW	7.55kW
Compressor power	2.76kW	2.64kW	2.65kW	4.6kW
Nominal cooling capacity	30708Btu/h			51880Btu/h
	9kW			15kW
	7738Kcal/h			12897Kcal/h
Refrigerant	R-410A			
Precision	±0.5°C	±1°C		
Reducer	Capillary			
Pump power	0.55kW		0.75kW	0.55kW
Tank capacity	22L	40L		
Inlet and outlet	Rp1/2"	Rp1"		
Max. pump pressure	4.4bar		5.4bar	4.4bar
Max. pump flow	75L/min			
N.W.	81Kg	113Kg	121Kg	124Kg

STANDARD INDUSTRIAL CHILLER

CW-7500 | CW-7800| CW-7900 | CW-8000

- 18 kW cooling capacity
- Active cooling
- ±1 °C temperature stability
- 5–35 °C control range
- R-410A refrigerant
- RS-485 Modbus communication
- High reliability & efficiency

TEYU INDUSTRIAL CHILLER
CW-7500

SPECIFICATION

Product Name	CW-7500ENTY	CW-7800ENTY	CW-7900ENTY	CW-8000ENTY
Voltage	AC 3P 380V			
Frequency	50Hz			
Current	2.1~18.9A	2.1~24.5A	2.1~34.1A	6.4~40.1A
Max. power consumption	8.86kW	14.06kW	16.42kW	21.36kW
Compressor power	5.41kW	8.26kW	10.62kW	12.16kW
Nominal cooling capacity	61416Btu/h	88712Btu/h	112596Btu/h	143304Btu/h
	18kW	26kW	33kW	42kW
	15476Kcal/h	22354Kcal/h	28373Kcal/h	36111Kcal/h
Refrigerant	R-410A			
Precision	±1℃			
Reducer	Capillary			
Pump power	1.1kW			2.2kW
Tank capacity	70L	170L		210L
Inlet and outlet	Rp1"			Rp1-1/2"
Max. pump pressure	6.15bar			7.5bar
Max. pump flow	117L/min			200L/min
N.W.	160Kg	277Kg	291Kg	438Kg

WATER COOLED CHILLER

CW-5200TISW | CW-5300ANSW | CW-6200ANSW | CW-6300ENSW

- 1900 W cooling capacity
- Active cooling
- ±0.1 °C control accuracy
- 5–35 °C control range
- Compact with high performance
- Low noise & long lifespan
- No heat interference to operating room

TEYU WATER COOLED CHILLER
CW-5200TISW

SPECIFICATION

<table>
<tr><th>Product Name</th><th>CW-5200TISWTY</th><th>CW-5300ANSWTY</th><th>CW-6200ANSWTY</th><th>CW-6300ENSWTY</th></tr>
<tr><td>Voltage</td><td colspan="3">AC 1P 220-240V</td><td>AC 3P 380V</td></tr>
<tr><td>Frequency</td><td colspan="4">50Hz</td></tr>
<tr><td>Current</td><td>0.6~4.8A</td><td>2.5~9.5A</td><td>2.5~19.9A</td><td>2.1~11.3A</td></tr>
<tr><td>Max. power consumption</td><td>0.69/0.79kW</td><td>1.57kW</td><td>3.52kW</td><td>5.39kW</td></tr>
<tr><td>Compressor power</td><td>0.6/0.7kW</td><td>0.6kW</td><td>1.75kW</td><td>2.49kW</td></tr>
<tr><td rowspan="3">Nominal cooling capacity</td><td>6482Btu/h</td><td>8188Btu/h</td><td>22519Btu/h</td><td>30025Btu/h</td></tr>
<tr><td>1.9kW</td><td>2.4kW</td><td>6.6kW</td><td>8.8kW</td></tr>
<tr><td>1633Kcal/h</td><td>2063Kcal/h</td><td>5674Kcal/h</td><td>7566Kcal/h</td></tr>
<tr><td>Refrigerant</td><td colspan="2">R-407c</td><td colspan="2">R-410A</td></tr>
<tr><td>Precision</td><td>±0.1℃</td><td colspan="2">±0.5℃</td><td>±1℃</td></tr>
<tr><td>Reducer</td><td colspan="3">Capillary</td><td></td></tr>
<tr><td>Pump power</td><td>0.09kW</td><td colspan="2">0.37kW</td><td>1.1kW</td></tr>
<tr><td>Tank capacity</td><td>6L</td><td>10L</td><td>22L</td><td>40L</td></tr>
<tr><td>Inlet and outlet</td><td>OD 10mm barbed conneclor+Rp1/2"</td><td colspan="2">Rp1/2"+ Rp 1/2"</td><td>Rp1"+ Rp1"</td></tr>
<tr><td>Max. pump pressure</td><td>2.5bar</td><td colspan="2">3.6bar</td><td>6.15bar</td></tr>
<tr><td>Max. pump flow</td><td>15L/min</td><td colspan="2">75L/min</td><td>117L/min</td></tr>
<tr><td>N.W.</td><td>22Kg</td><td>46Kg</td><td>67Kg</td><td>108Kg</td></tr>
</table>

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Vince Lombardi

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