

CUTTING / CLEANING / WELDING

LASER SYSTEMS.



ZMB1530

FIND YOUR PROCESS.

Explore the range by application. Select a model to open its presentation and full technical specification.

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Compact enclosed laser cutter for small parts.	
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Open laser cutter for gold, silver and jewellery components.	
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YOUR LOCAL DISTRIBUTOR

Jet Star International / Manufacturer contact

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COMPACT FIBER LASERS

01

SMALL DETAILS.

Compact working areas for fine details, jewellery and enclosed sheet processing.



LIL2030



ZM1313

LIL2030

04

LIL0T6050

06

ZW6060

08

ZM1313

10

WATMACHINERY / COMPACT FIBER LASERS

LIL2030

Compact enclosed laser cutter for small parts.



SYSTEM OVERVIEW

200 × 300

WORKING AREA / mm

1-3

LASER POWER / kW

60

TABLE LOAD / kg

SYSTEM COMPONENTS



Raytool laser head



Ball screw transmission



Servo motors and drives



Raycus laser source

LIL2030

IN DETAIL.

TECHNICAL SPECIFICATION

Working area	200 × 300 mm
Table load capacity	60 kg
Machine weight	220 kg
Z-axis travel	80 mm
Laser power	1000-3000 W
Maximum linkage speed	50 m/min
Maximum acceleration	0.6 G
Positioning accuracy	0.03 mm
Repeat positioning accuracy	0.02 mm
Power supply	220 V / 50 Hz; 380 V / 50 Hz

01 Working envelope

200 × 300 mm.

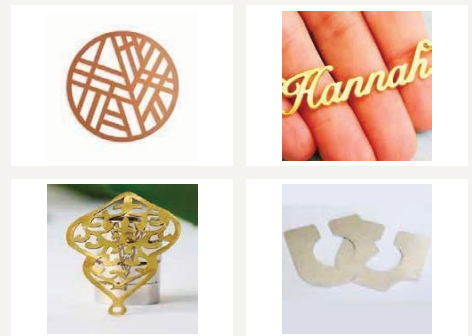
02 System configuration

Raytool laser head / Ball screw transmission / Servo motors and drives / Raycus laser source.



ADDITIONAL VIEW

APPLICATION EXAMPLES



WATMACHINERY / COMPACT FIBER LASERS

LILOT6050

Open laser cutter for gold, silver and jewellery components.



SYSTEM OVERVIEW

200 × 300

WORKING AREA / mm

1-3

LASER POWER / kW

60

TABLE LOAD / kg

SYSTEM COMPONENTS



Raytool laser head



Ball screw transmission



Drive system



Remote control

LILOT6050

IN DETAIL.

TECHNICAL SPECIFICATION

Working area	200 × 300 mm
Table load capacity	60 kg
Machine weight	600 kg
Z-axis travel	80 mm
Laser power	1000-3000 W
Maximum linkage speed	50 m/min
Maximum acceleration	0.6 G
Positioning accuracy	0.03 mm
Repeat positioning accuracy	0.02 mm
Power supply	220 V / 50 Hz; 380 V / 50 Hz

* Working area is stated as 200 × 300 mm in the source; confirm the LILOT6050 configuration.

01 Working envelope

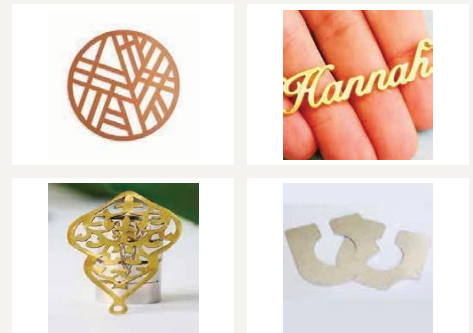
200 × 300 mm.

02 System configuration

Raytool laser head / Ball screw transmission
/ Drive system / Remote control.



ADDITIONAL VIEW

APPLICATION EXAMPLES

WATMACHINERY / COMPACT FIBER LASERS

ZW6060

Enclosed laser cutter for gold, silver and jewellery components.



SYSTEM OVERVIEW

600 × 600

WORKING AREA / mm

1-3

LASER POWER / kW

60

TABLE LOAD / kg

SYSTEM COMPONENTS



Raytool laser head



Ball screw transmission



Servo motors and drives



Raycus laser source

ZW6060

IN DETAIL.

TECHNICAL SPECIFICATION

Working area	600 × 600 mm
Table load capacity	60 kg
Machine weight	800 kg
Z-axis travel	80 mm
Laser power	1000-3000 W
Maximum linkage speed	50 m/min
Maximum acceleration	0.6 G
Positioning accuracy	0.03 mm
Repeat positioning accuracy	0.02 mm
Power supply	220 V / 50 Hz; 380 V / 50 Hz

01 Working envelope

600 × 600 mm.

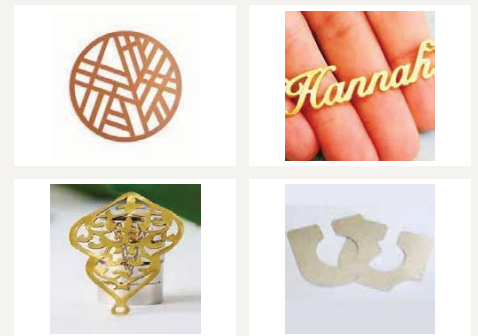
02 System configuration

Raytool laser head / Ball screw transmission / Servo motors and drives / Raycus laser source.



ADDITIONAL VIEW

APPLICATION EXAMPLES



WATMACHINERY / COMPACT FIBER LASERS

ZM1313

Compact sheet metal laser cutter with an enclosed work area.



SYSTEM OVERVIEW

1300 × 1300

WORKING AREA / mm

1.5-3

LASER POWER / kW

700

TABLE LOAD / kg

SYSTEM COMPONENTS



Raytool laser head



Ball screw transmission



Servo motors and drives



Raycus laser source

ZM1313

IN DETAIL.

TECHNICAL SPECIFICATION

Working area	1300 × 1300 mm
Table load capacity	700 kg
Machine weight	3150 kg
Z-axis travel	100 mm
Laser power	1500-3000 W
Maximum linkage speed	80 m/min
Maximum acceleration	1.0 G
Positioning accuracy	0.03 mm
Repeat positioning accuracy	0.02 mm
Power supply	220 V / 50 Hz

01 Working envelope

1300 × 1300 mm.

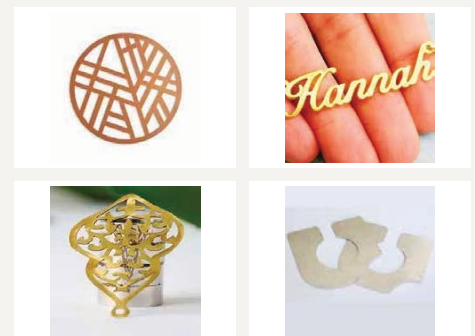
02 System configuration

Raytool laser head / Ball screw transmission
/ Servo motors and drives / Raycus laser
source.



ADDITIONAL VIEW

APPLICATION EXAMPLES



FIBER LASER CUTTING

02

SHEET METAL.

Open beds, enclosed systems, exchange tables and large-format cutting platforms.



ZMB1530



OTL SERIES

OT1530	13	OE1530E	15	OT+1530	17
ZMB1530	19	ZK Series	21	OTL Series	23

WATMACHINERY / FIBER LASER CUTTING

OT1530

Sheet metal laser cutting with an open bed and gantry guards.



SYSTEM OVERVIEW

3000 × 1500

CUTTING AREA / mm

50

MOVING SPEED / m/min

1500

APPROX. WEIGHT / kg

SYSTEM COMPONENTS



Raycus laser source



Autofocusing laser head



High-strength bed



Aviation aluminium gantry

OT1530

IN DETAIL.

TECHNICAL SPECIFICATION

Cutting area (L × W)	3000 × 1500 mm
Laser source	Raycus fiber laser
Laser wavelength	1070-1080 nm
Interface	USB / RJ45
X-axis moving speed	50 m/min
X-axis stroke	3000 mm
X-axis positioning accuracy	±0.05 mm/m
X-axis repeatability	0.05 mm
Y-axis moving speed	50 m/min
Y-axis stroke	1500 mm
Y-axis positioning accuracy	±0.05 mm/m
Y-axis repeatability	0.05 mm
Z-axis stroke	50 mm
Power supply requirement	400 V / 50 Hz / 30 A (36 A)
Continuous working time	24 hours
Machine weight	Approximately 1500 kg
Dimensions (L × W × H)	4500 × 2300 × 1500 mm

01 Working envelope

3000 × 1500 mm.

02 System configuration

Raycus laser source / Autofocusing laser head / High-strength bed / Aviation aluminium gantry.

APPLICATION EXAMPLES



WATMACHINERY / FIBER LASER CUTTING

OE1530E

Open-frame laser cutter for sheet metal.



SYSTEM OVERVIEW

3000 × 1500

CUTTING AREA / mm

50

MOVING SPEED / m/min

3000

APPROX. WEIGHT / kg

SYSTEM COMPONENTS



Raycus laser source



Autofocusing laser head



High-strength bed



Aviation aluminium gantry

OE1530E

IN DETAIL.

TECHNICAL SPECIFICATION

Cutting area (L × W)	3000 × 1500 mm
Laser source	Raycus fiber laser
Laser wavelength	1070-1080 nm
Interface	USB / RJ45
X-axis moving speed	50 m/min
X-axis stroke	3000 mm
X-axis positioning accuracy	±0.05 mm/m
X-axis repeatability	0.05 mm
Y-axis moving speed	50 m/min
Y-axis stroke	1500 mm
Y-axis positioning accuracy	±0.05 mm/m
Y-axis repeatability	0.05 mm
Z-axis stroke	50 mm
Power supply requirement	400 V / 50 Hz / 30 A (36 A)
Continuous working time	24 hours
Machine weight	Approximately 3000 kg
Dimensions (L × W × H)	4500 × 2300 × 1500 mm

01 Working envelope

3000 × 1500 mm.

02 System configuration

Raycus laser source / Autofocusing laser head / High-strength bed / Aviation aluminium gantry.

APPLICATION EXAMPLES

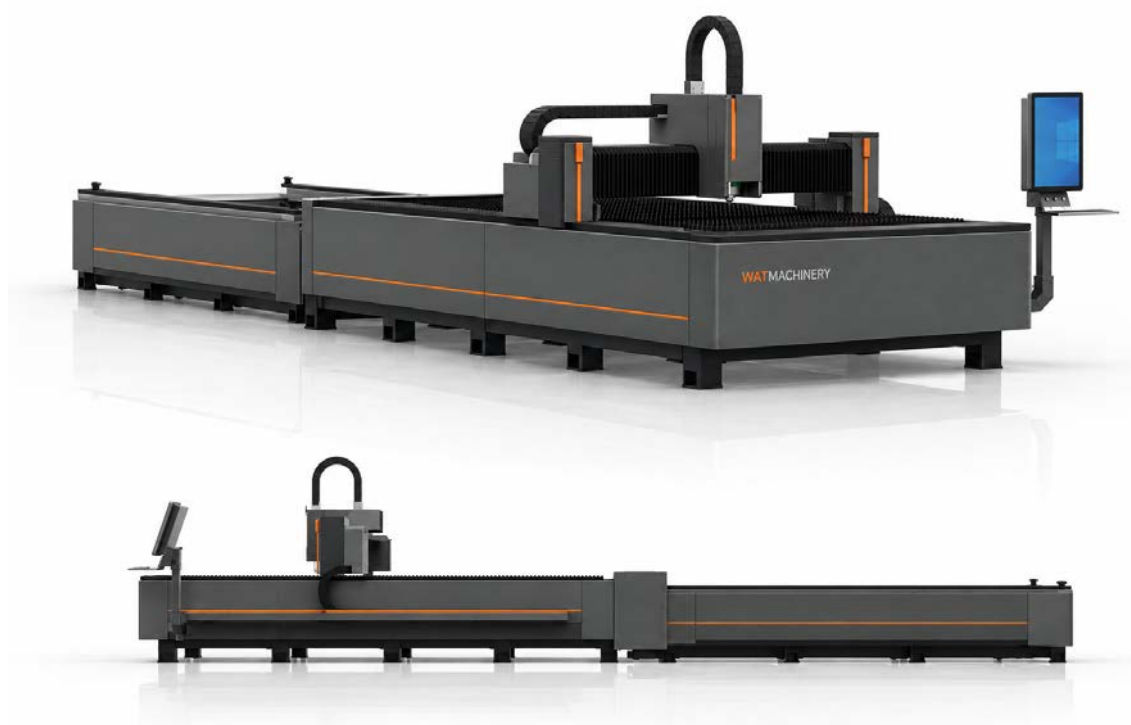


* Source heading: OE1530E; source table: OE1530. Confirm model designation.

WATMACHINERY / FIBER LASER CUTTING

OT+1530

Open sheet metal laser cutter with exchange tables.



SYSTEM OVERVIEW

3000 × 1500

CUTTING AREA / mm

1-8

LASER POWER / kW

15 s

TABLE EXCHANGE

SYSTEM COMPONENTS



Raycus laser source



Autofocusing laser head



High-strength bed



Aviation aluminium gantry

OT+1530

IN DETAIL.

TECHNICAL SPECIFICATION

Cutting area (L × W)	3000 × 1500 mm
Laser type	Fiber laser, 1080 nm
Laser power options	1000 / 1500 / 2000 / 3000 / 4000 / 6000 / 8000 W
Fiber laser brands	Raycus / MAX / RECI / BWT
Sheet working area	1500 × 3000 mm
Minimum line width	0.1 mm
Positioning accuracy	0.01 mm
Maximum cutting speed	80 m/min
Maximum acceleration	1.5 G
Transmission	Precision dual gear rack
Drive system	Servo motors
Cutting thickness	Depends on laser power and material
Assist gases	Compressed air, oxygen and nitrogen
Cooling	Industrial circulating water chiller
Visual positioning	Red dot
Working voltage	3-phase 380 V, 50/60 Hz

01 Exchange platform

Upper and lower exchange platforms with inverter-controlled exchange motor. The source states a table change within 15 seconds.



ADDITIONAL VIEW

APPLICATION EXAMPLES



WATMACHINERY / FIBER LASER CUTTING

ZMB1530

Enclosed sheet metal laser cutter with a pull-out loading table.



SYSTEM OVERVIEW

3000 × 1500

WORKING AREA / mm

1-6

LASER POWER / kW

700

PLATFORM LOAD / kg

SYSTEM COMPONENTS



Raycus laser source



Autofocusing laser head



Pull-out platform



Annealed high-strength bed

ZMB1530

IN DETAIL.

TECHNICAL SPECIFICATION

Maximum processing range	3000 × 1500 mm
X-axis travel	3000 mm
Y-axis travel	1500 mm
Z-axis travel	100 mm
X/Y/Z positioning accuracy	±0.03 mm
X/Y/Z repeat positioning accuracy	±0.02 mm
X/Y maximum moving speed	80 m/min
X/Y/Z maximum cutting speed	80 m/min
X/Y/Z maximum acceleration	1.0 G
Transmission	Dual-drive rack
Z-axis motor power	750 W
X/Y travel motor power	X: 850 W; Y: 1.3 kW
Guide width	X: 20 mm; Y: 25 mm
Maximum platform load	700 kg
Enclosed laser protection	Yes
Lubrication	Automatic oiling
Laser power	1000-6000 W
Machine dimensions	4700 × 3000 × 2050 mm
Machine weight	3150 kg

01 Enclosed system

A single working platform within a full enclosure.

02 Electric door

Door operation controlled by software.

03 Pull-out access

The platform can be pulled out manually for material loading.



ADDITIONAL VIEW

APPLICATION EXAMPLES



WATMACHINERY / FIBER LASER CUTTING

ZK SERIES

Sheet metal laser cutters with a fully enclosed work area.



SYSTEM OVERVIEW

4 + custom

WORKING AREA OPTIONS

110

LINKAGE SPEED / m/min

1.5

ACCELERATION / G

SYSTEM COMPONENTS



Raycus laser source shown*



Autofocusing laser head



High-strength bed



Aviation aluminium gantry

ZK SERIES

IN DETAIL.

TECHNICAL SPECIFICATION

Machine bed	Heavy-duty welded tube construction
Gantry	Aviation aluminium
Working area options	3000 × 1500 / 4000 × 2000 / 6000 × 2000 / 6000 × 2500 mm; custom sizes
Table load capacity	1600 kg (1-4 kW)
Additional load value in source*	2500 kg (≥6 kW); row placement to confirm
Dimensions given in source*	11850 × 3470 × 2280 mm, for 4000 × 2000 mm table; row placement to confirm
Overall weight*	Not unambiguously specified
Laser source*	Raytools in table; Raycus in image caption
X/Y/Z servo motors and drives	Yaskawa
Control system	FSCUT2000 / 8000
Display	28-inch
Maximum linkage speed	110 m/min
Maximum acceleration	1.5 G
Positioning accuracy	±0.03 mm
Repeat positioning accuracy	±0.02 mm

* The source places 2500 kg under dimensions and 11850 × 3470 × 2280 mm under weight. Their intended row assignment and laser-source brand require confirmation.

01 Working envelope

3000 × 1500 / 4000 × 2000 / 6000 × 2000 / 6000 × 2500 mm; custom sizes.

02 System configuration

Raycus laser source shown* / Autofocusing laser head / High-strength bed / Aviation aluminium gantry.



ADDITIONAL VIEW

APPLICATION EXAMPLES



WATMACHINERY / FIBER LASER CUTTING

OTL SERIES

Large-format sheet metal laser cutters with open modular beds.



SYSTEM OVERVIEW

10000

TABLE LOAD / kg

280

Z STROKE / mm

100

MAX. SPEED / m/min

SYSTEM COMPONENTS



Raycus laser source



Autofocusing laser head



High-strength bed



Aviation aluminium gantry

OTL SERIES

IN DETAIL.

TECHNICAL SPECIFICATION

Working size (source notation)*	2550 mm / 12100 mm
Maximum Z stroke	280 mm
X/Y positioning accuracy	±0.01 mm
X/Y repeat positioning accuracy	±0.02 mm
X/Y maximum speed	100 m/min
Maximum acceleration	1.5 G
Guideways	HIWIN
X-axis guide rail width	25 mm
Y-axis guide rail width	35 mm
Rack gear	YYC
Reducer	France Motovario reducer
Table load capacity	10000 kg
Screw	TBI
Cross member	Aviation aluminium
Control system	CYPCUT
Electrical components	Schneider
Pneumatic components	SMC
Lubrication system (source)*	Pneumatic part
Bearings	NSK
Servo motors	Yaskawa
Supported graphic formats	PLT, DXF, BMP, JPG, AI, etc.
Working environment	0-50 °C
Power supply	380 V / 50 Hz

* The working-size row uses a slash (2550 mm / 12100 mm); confirm axis assignment. The lubrication row says "Pneumatic part"; confirm the actual system.

01 Modular bed

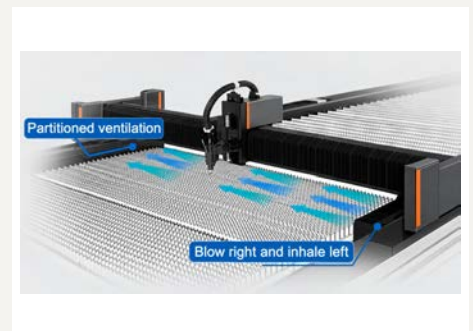
Segmented sections can be customised and extended, with a cited example of approximately 15.6 × 4.1 m. Dual guide rails, welded gantry and removable slat supports.

02 Sectional extraction

Individual bed sections use local smoke extraction. The described axial-flow arrangement draws fumes and dust downwards.



MODULAR BED CONSTRUCTION



SECTIONAL SMOKE EXTRACTION

APPLICATION EXAMPLES



FIBER LASER SYSTEMS

03

TUBE & PROFILE.

Sheet-and-tube combinations, dedicated tube systems and automatic material handling.



OTU1530



RWB SERIES

OTU1530	26	ZH Series	28	RW Series	30
RWA Series	32	RWB Series	34	RWC Series	36

WATMACHINERY / FIBER LASER SYSTEMS

OTU1530

Open laser cutter for sheets, tubes and profiles with a rotary attachment.



SYSTEM OVERVIEW

1500 × 3000

WORKING AREA / mm

0.75–3.3

LASER POWER / kW

900

PLATFORM LOAD / kg

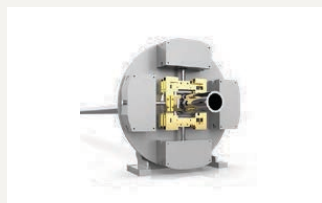
SYSTEM COMPONENTS



Raycus laser source



Autofocusing laser head



Automatic support system



Rotary clamp

OTU1530

IN DETAIL.

TECHNICAL SPECIFICATION

X-axis travel	1500 mm
Y-axis travel	3000 mm
X/Y positioning accuracy	±0.01 mm
X/Y repeat positioning accuracy	±0.02 mm
X/Y maximum moving speed	100 m/min
Maximum acceleration	1.2 G
Transmission	Guide rail and gear rack
Round tube size range	20-220 mm*
Square tube size range	20-160 mm
Rectangular tube range	20-170 mm side length; circumscribed circle diameter 220 mm
Maximum platform load	900 kg
Packing dimensions (L × W × H)	4700 × 2300 × 2060 mm
Working area	1500 × 3000 mm
Net weight per set	3200 - unit to confirm*
Gross weight per set	3500 kg
Volume per set	22 m ³
Packing	One 20FR container
Laser power options	750-3300 W
Operating temperature	0-40 °C
Voltage and frequency	380 V / 50/60 Hz

* Round tube diameter: feature text 20-200 mm; table 20-220 mm. Net weight column is labelled kg/set but its value is printed as 3200 g. Both require confirmation.

01 Sheet and tube

Processes sheet, square tube and round tube using an electric automatic clamp.

02 Tube capacity

The feature text gives a diameter range of 20-200 mm; the table gives 20-220 mm. Confirm the required configuration.



ADDITIONAL VIEW

APPLICATION EXAMPLES



WATMACHINERY / FIBER LASER SYSTEMS

ZH SERIES

Enclosed cutting system for sheets, tubes and profiles with exchange tables.



SYSTEM OVERVIEW

10-30

LASER POWER / kW

100

MOVING SPEED / m/min

900

PLATFORM LOAD / kg

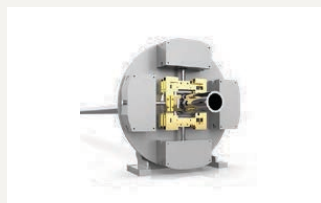
SYSTEM COMPONENTS



Raycus laser source



Autofocusing laser head



Automatic support system



Rotary clamp

ZH SERIES

IN DETAIL.

TECHNICAL SPECIFICATION

X-axis travel	1500 / 2000 mm
Y-axis travel	3000 / 4000 mm
X/Y positioning accuracy	±0.01 mm
X/Y repeat positioning accuracy	±0.02 mm
X/Y maximum moving speed	100 m/min
Maximum acceleration	1.2 G
Transmission	Guide rail and gear rack
Round tube size range	20-220 mm*
Square tube size range	20-160 mm
Rectangular tube range	20-170 mm side length; circumscribed circle diameter 220 mm
Maximum platform load	900 kg
Working area options	1500 × 3000 / 2000 × 4000 mm
Net weight per set	3200 - unit to confirm*
Gross weight per set	3500 kg
Volume per set	22 m³
Packing	One 20FR container
Laser power	10000-30000 W
Operating temperature	0-40 °C
Voltage and frequency	380 V / 50/60 Hz

* Round tube diameter: feature text 20-200 mm; table 20-220 mm. Net weight is labelled kg/set but printed as 3200 g. Confirm before specification.

01 Sheet and tube

Square and round tube processing with an electric automatic clamp.

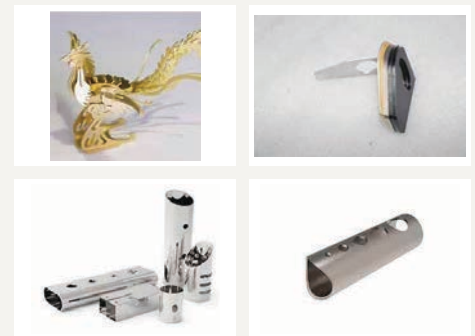
02 Enclosed exchange platform

Combines sheet and tube processing with a fully enclosed exchange-table layout.



ADDITIONAL VIEW

APPLICATION EXAMPLES



WATMACHINERY / FIBER LASER SYSTEMS

RW SERIES

Tube and profile laser cutters with a guarded cutting zone.



SYSTEM OVERVIEW

1-6

LASER POWER / kW

Ø20-240

CLAMPING DIAMETER / mm

100

MAX. SPEED / m/min

SYSTEM COMPONENTS



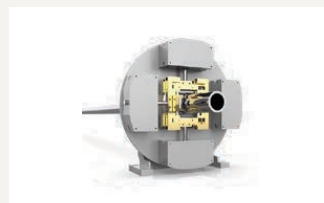
Raycus laser source



Autofocusing laser head



Automatic support system



Rotary clamp

RW SERIES

IN DETAIL.

TECHNICAL SPECIFICATION

Laser power	1000-6000 W
Machine weight	4480 kg
Dimensions	11900 × 1580 × 2260 mm
Repeat positioning accuracy	±0.02 mm
Maximum speed	100 m/min
Maximum acceleration	1 G
Transmission	Dual-drive rack gear
Additional source value*	<10 kW; parameter label to confirm
Power supply and frequency	380 V / 50 Hz
Clamping diameter	Ø20-Ø240 mm
Positioning accuracy	±0.03 mm/m

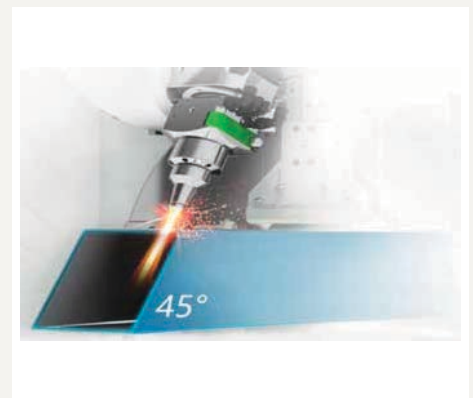
* The source repeats "Double driver rack gear" as the label for <10 kW. The intended power parameter is not identified.

01 Optional bevel cutting

A 0-45° bevel-cutting option supports preparation of edges for subsequent fabrication and welding.



ADDITIONAL VIEW



0-45° BEVEL CUTTING / OPTIONAL

APPLICATION EXAMPLES



WATMACHINERY / FIBER LASER SYSTEMS

RWA SERIES

Tube and profile laser cutters with automatic loading and unloading.



SYSTEM OVERVIEW

6

WORKING LENGTH / m

1-6

LASER POWER / kW

40

RUNNING SPEED / m/min

SYSTEM COMPONENTS



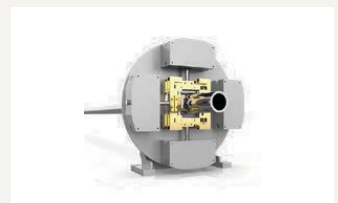
Raycus laser source



Autofocusing laser head



Automatic support system



Rotary clamp

RWA SERIES

IN DETAIL.

TECHNICAL SPECIFICATION

Laser type IPG / Raycus fiber laser source

Laser power 1000-6000 W

Machine weight 8000 kg

Dimensions 11900 × 1880 × 2260 mm

Working length 6 m

Repeat positioning accuracy ±0.02 mm

Maximum running speed 40 m/min

Maximum acceleration 1.2 G

Transmission Dual-drive rack gear

Power supply and frequency 380 V / 50 Hz

01 Automatic handling

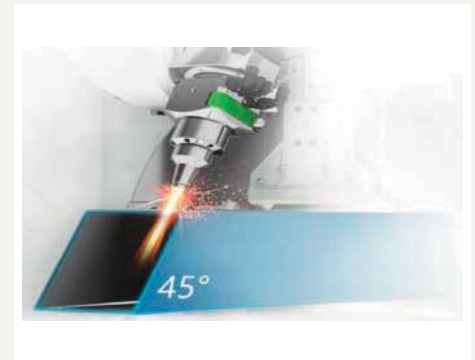
Automatic loading and unloading simplify tube handling and reduce manual intervention.

02 Optional bevel cutting

A 0-45° bevel-cutting option supports preparation of edges for subsequent fabrication and welding.



ADDITIONAL VIEW



0-45° BEVEL CUTTING / OPTIONAL

APPLICATION EXAMPLES



WATMACHINERY / FIBER LASER SYSTEMS

RWB SERIES

Tube and profile laser cutters with a horizontal three-chuck layout.



SYSTEM OVERVIEW

3

HORIZONTAL CHUCKS

1-6

LASER POWER / kW

15-350

TUBE DIAMETER / mm

SYSTEM COMPONENTS



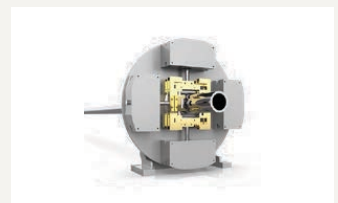
Raycus laser source



Autofocusing laser head



Automatic support system



Rotary clamp

RWB SERIES

IN DETAIL.

TECHNICAL SPECIFICATION

Laser type	IPG / Raycus fiber laser source
Laser power	1000-6000 W
Machine weight	8000 kg
Dimensions	11900 × 1880 × 2260 mm
Working length	6 m
Repeat positioning accuracy	±0.02 mm
Maximum running speed	40 m/min
Maximum acceleration	1.2 G
Transmission	Dual-drive rack gear
Power supply and frequency	380 V / 50 Hz

01 Three-chuck handling

Horizontal three-chuck arrangement with servo follow-up support and an anti-bending system. The source describes zero tailings.

02 Tube and profile range

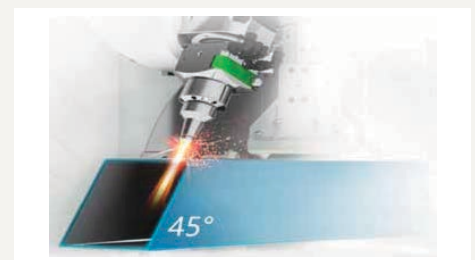
15-350 mm tube diameter; round, square, rectangular, special sections and open profiles. Servo unloading for 6, 9 or 12 m workpieces.

03 Optional bevel cutting

A 0-45° bevel-cutting option supports preparation of edges for subsequent fabrication and welding.



ADDITIONAL VIEW



0-45° BEVEL CUTTING / OPTIONAL

APPLICATION EXAMPLES



WATMACHINERY / FIBER LASER SYSTEMS

RWC SERIES

Tube and profile laser cutters with a vertical three-chuck layout.



SYSTEM OVERVIEW

3

VERTICAL CHUCKS

1-6

LASER POWER / kW

≤50

CUTTING REMNANT / mm

SYSTEM COMPONENTS



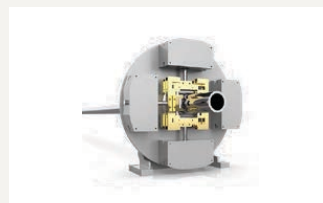
Raycus laser source



Autofocusing laser head



Automatic support system



Rotary clamp

RWC SERIES

IN DETAIL.

TECHNICAL SPECIFICATION

Laser type	Raycus fiber laser
Laser power	1000-6000 W
Machine weight	8000 kg
Dimensions	11900 × 1880 × 2260 mm
Working length	6 m
Repeat positioning accuracy	±0.02 mm
Maximum running speed	40 m/min
Maximum acceleration	1.2 G
Transmission	Dual-drive rack gear
Power supply and frequency	380 V / 50 Hz

01 Accessible bed layout

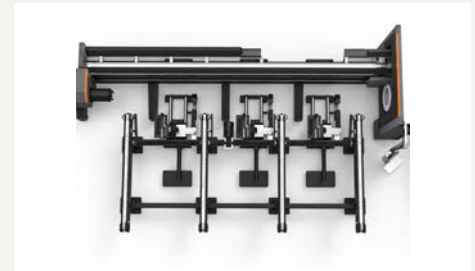
A side-hanging bed with triangular structure places the chuck centre outside the main bed body for convenient loading.

02 Short remnant capability

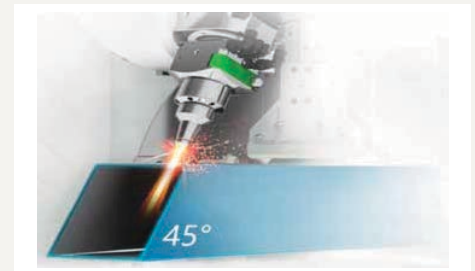
A movable front chuck supports stable clamping. The source states a cutting remnant of ≤50 mm.

03 Optional bevel cutting

A 0-45° bevel-cutting option supports preparation of edges for subsequent fabrication and welding.



ADDITIONAL VIEW



0-45° BEVEL CUTTING / OPTIONAL

APPLICATION EXAMPLES



SURFACE & JOINING SYSTEMS

04

CLEAN.
WELD.

Portable laser cleaning, multifunction systems and six-axis robotic welding.



C-PACK



6-AXIS ROBOT

C-BOX	39	C-PACK	41	CL Series	43
L Series	45	LCW Series	47	6-axis robot	49

WATMACHINERY / SURFACE & JOINING SYSTEMS

C-BOX

Portable pulsed laser cleaner in a transport case.



SYSTEM OVERVIEW

100

NOMINAL LASER POWER / W

170

SCANNING WIDTH / mm

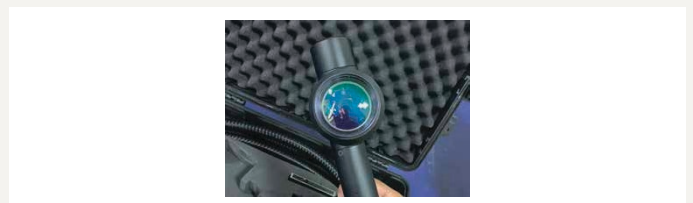
28

MACHINE WEIGHT / kg

SYSTEM COMPONENTS



Integrated transport case



Lightweight cleaning head

C-BOX

IN DETAIL.

TECHNICAL SPECIFICATION

Focal length	254 mm
Scanning width	170 mm
Scanning speed	10000 mm/s
Output working mode	Pulse / continuous
Output fiber cable length	5 m
Average output power	>100 W
Cooling	Air cooling
Voltage	220 V
Maximum power consumption	<450 W
High-reflection protection	Yes
Operating temperature	0-40 °C
Storage temperature	-10 to 60 °C
Machine dimensions	617 × 469 × 291 mm
Machine weight	28 kg
Laser head weight	0.62 kg

01 MOPA pulse control

A 100 W JPT pulsed fiber source allows pulse width and frequency to be adjusted independently, with stable peak output across cleaning settings.

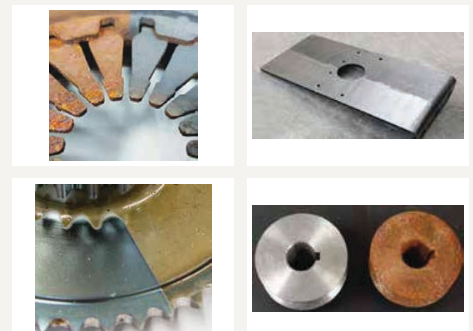
02 Handheld operation

A compact cleaning head integrates the handle and operating button for convenient use.

03 Portable protection

An injection-moulded wheeled case with pull handle is designed for transport and resistance to compression, impact and wear.

APPLICATION EXAMPLES



WATMACHINERY / SURFACE & JOINING SYSTEMS

C-PACK

Backpack laser cleaner with a handheld head.



SYSTEM OVERVIEW

100

LASER POWER / W

12.5

NET WEIGHT / kg

120

SCAN WIDTH / mm

SYSTEM COMPONENTS



Dual-axis cleaning head



Backpack dimensions

C-PACK

IN DETAIL.

TECHNICAL SPECIFICATION

Laser power	100 W fiber laser
Laser frequency	1-3000 kHz
Fiber cable length	3 m
Cooling	Air cooling
Scan speed	Up to 30000 mm/s
Scan modes	7 patterns
Scan width	120 mm
Dimensions*	336 × 129 × 400/500 mm, with/without Li-battery (source order)
Net weight	12.5 kg
Power supply	AC 110-240 V, 50/60 Hz; lithium battery option
Cleaning head dimensions	235 × 116 × 51 mm
Cleaning head weight	0.9 kg

* The source lists height 400/500 mm "with/without Li-battery". Confirm which height corresponds to each configuration.

01 Backpack format

An air-cooled, 12.5 kg portable system with optional lithium battery power and a handheld scanner.

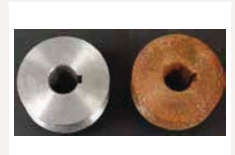
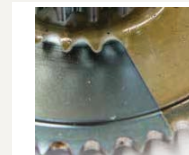
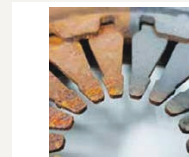
02 Surface cleaning

Intended for paint, resin, oily deposits and rubber-mould residues, without a chemical cleaning medium or water.

03 Cleaning head

Lightweight dual-axis head for handheld or automatic operation, including manual adjustment for curved surfaces.

APPLICATION EXAMPLES



WATMACHINERY / SURFACE & JOINING SYSTEMS

CL SERIES

Pulsed laser cleaners for removing coatings and contaminants.



SYSTEM OVERVIEW

200–500

LASER POWER / W

10–100

SCAN WIDTH / mm

160

LASER FOCUS / mm

SYSTEM COMPONENTS



JPT pulsed laser source



Cleaning head



Control system



Cooling system

CL SERIES

IN DETAIL.

TECHNICAL SPECIFICATION

Laser power options	200 / 300 / 500 W
Wavelength*	1064 ±5 - unit to confirm
Scanning width	10-100 mm
Laser focus	160 mm
Power supply*	Single-phase 220 ±10%, 50/60 Hz AC (unit omitted in source)
Working humidity	≤70%, non-condensing
Overall power by laser option	200 W: 2700 W / 300 W: 3900 W / 500 W: 4700 W
Fiber length*	10 mm as printed; unit to confirm
Cooling	Water cooling
Cooling water*	"Pulled or distilled water" as printed

* The source prints wavelength in mm and fiber length as 10 mm. Confirm intended units. "Pulled" water is unclear; confirm the specified coolant quality.

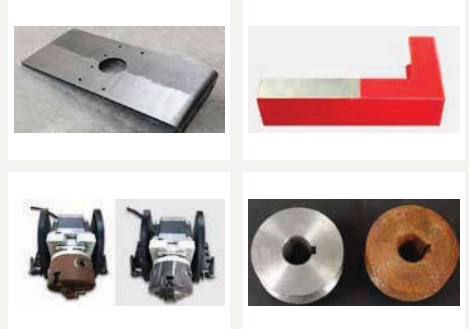
01 Pulsed surface treatment

Short laser pulses act on surface contamination through local thermal and mechanical effects, removing residues by ablation and evaporation.

02 Adjustable process

The focused beam targets coatings, oxides and surface deposits. Cleaning parameters are adjusted to the substrate and contamination to limit effects on the underlying metal.

APPLICATION EXAMPLES



WATMACHINERY / SURFACE & JOINING SYSTEMS

L SERIES

Laser cleaners for metal surface treatment.



SYSTEM OVERVIEW

1-2

LASER POWER / kW

10-80

SCAN WIDTH / mm

3

HEAD WEIGHT / kg

SYSTEM COMPONENTS



Control system



Cleaning head



Raycus laser source



Cooling system

L SERIES

IN DETAIL.

TECHNICAL SPECIFICATION

Laser power options	1000 / 1500 / 2000 W
Wavelength*	1080 $\pm$ 5 - unit to confirm
Pulse energy	1.5-20 mJ
Fiber length	8-10 m; 15-20 m optional
Cleaning head weight	3 kg
Scanning width	10-80 mm
Voltage	380 V, 50/60 Hz
Cooling	Water cooling
Operating temperature	10-40 °C

* The source prints the wavelength unit as mm. The intended unit must be confirmed.

01 Pulsed surface treatment

Short laser pulses act on surface contamination through local thermal and mechanical effects, removing residues by ablation and evaporation.

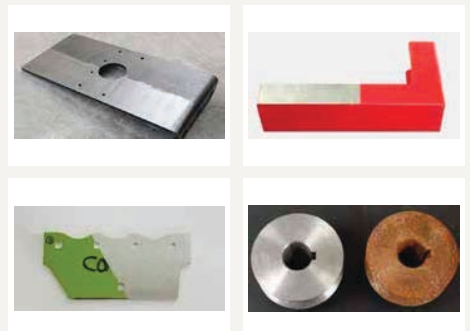
02 Adjustable process

The focused beam targets coatings, oxides and surface deposits. Cleaning parameters are adjusted to the substrate and contamination to limit effects on the underlying metal.



ADDITIONAL VIEW

APPLICATION EXAMPLES



WATMACHINERY / SURFACE & JOINING SYSTEMS

LCW SERIES

Handheld 3-in-1 laser systems for welding, cleaning and cutting.



SYSTEM OVERVIEW

3 in 1

WELD / CLEAN / CUT

1-3

LASER POWER / kW

0.1-4

WELDING DEPTH / mm

SYSTEM COMPONENTS



Welding / cleaning / cutting head



Raytools control system



Raycus laser source



Hanli cooling chiller

LCW SERIES

IN DETAIL.

TECHNICAL SPECIFICATION

Adjustable power range	1-100%
Fiber length	10 m standard; up to 20 m supported
Speed range	0-120 mm/s
Welding gap requirement	≤0.5 mm
Operating temperature	15-35 °C
Voltage	380 V
Welding depth	0.1-4 mm
Laser power options	1000 / 1500 / 2000 / 3000 W
Laser wavelength	1064 nm
Operating mode	Continuous / modulation
Repeat precision	±0.01 mm
Cooling water system	Industrial thermostatic water tank
Working humidity	<70%, non-condensing
Focal spot diameter	0.2-2 mm
Pulse frequency	0.1-100 Hz

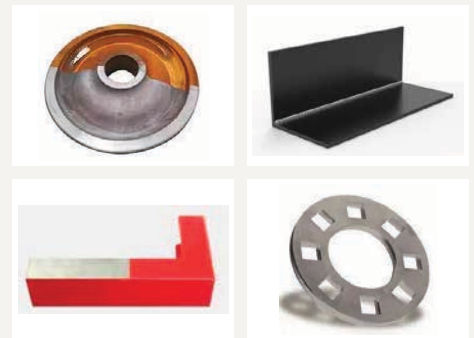
01 Three processes

Laser welding, laser cleaning and handheld metal cutting in one system.

02 Materials

The source lists stainless steel, aluminium alloy, carbon steel and titanium alloy welding, together with rust removal and handheld metal cutting.

APPLICATION EXAMPLES



WATMACHINERY / SURFACE & JOINING SYSTEMS

6-AXIS ROBOT

Six-axis robot for automated laser welding.



SYSTEM OVERVIEW

6

CONTROLLED AXES

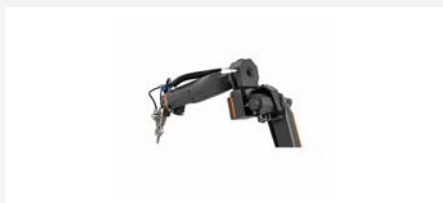
20

HANDLING WEIGHT / kg

1811

X MOTION RANGE / mm

SYSTEM COMPONENTS



FANUC robot system



Wobble laser welding head



Raycus laser generator

6-AXIS ROBOT

IN DETAIL.

TECHNICAL SPECIFICATION	
Robot model	FANUC Robot M20iA
Controlled axes	6
Handling weight	20 kg
X motion range	1811 mm
Y motion range	3275 mm
Repeat positioning accuracy*	±0.03 - unit not stated
Weight	250 kg
Control system	R-30iB

* Repeat positioning accuracy has no unit in the source. The original industry list additionally includes rubber, leather, plastic buttons and PVC pipes; process suitability is not documented and requires confirmation.

01 Spatial welding

Six-axis coordinated motion supports welding paths beyond a flat plane.

02 Production integration

Fixtures can be customised for production needs, including double-station or multi-station welding to reduce fixture-loading time.

03 Applications

Hardware, packaging, electronic and electrical components, tools, precision instruments, eyewear, watches, jewellery, automotive parts and medical equipment are listed in the source. Confirm process suitability for the specific workpiece.



ADDITIONAL VIEW

PLAN THE RIGHT SYSTEM.

Start with the workpiece. Match the configuration to the process.

01 Material & geometry

Share the material, sheet or tube dimensions, wall thickness and a representative drawing.

02 Production requirements

Describe the batch size, target throughput, loading method and any need for automatic handling.

03 Configuration & installation

Confirm laser power, machine options, utilities, extraction, access and the final installation layout.

04 Application review

Review representative parts and the final technical specification with your distributor.

ABOUT THIS EDITION

Specifications are based on the supplied WATMACHINERY catalogue. Machine images are AI-assisted colour and exterior styling visualizations in graphite and orange. Component and application images retain source materials. Confirm the supplied appearance and configuration with your distributor.

Values marked with an asterisk require configuration confirmation because the source contains an ambiguity or inconsistent unit. Final performance depends on the machine configuration, material and process settings.

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