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600 600 0900

SOLDADORA LASER FIBRA 2000 3000 6000W

STERK **RAY-2000** **RAY-3000** **RAY-6000**



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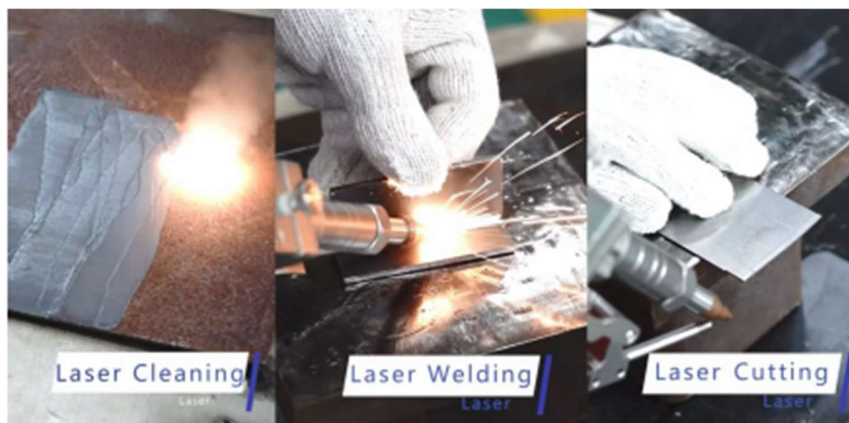
Machine Functions

Laser Welding: Carbon steel, stainless steel, aluminum, galvanized sheet, titanium alloy

Weld Seam Cleaning: Remove welding oxide and discoloration

Metal Surface Cleaning: Rust removal, paint removal, oil stain removal

Thin Metal Cutting: Fast cutting for thin metal sheets

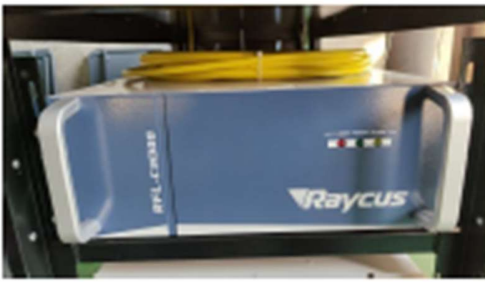


Power	Materials	Quality Thickness	Maximum Thickness
1500	Stainless steel	4	5
	Carbon steel	4	5
	Galvanised sheet	4	5
	Aluminium	3	4
2000	Stainless steel	5	6
	Carbon steel	5	6
	Galvanised sheet	5	6
	Aluminium	4	5
3000	Stainless steel	7	8
	Carbon steel	7	8
	Galvanised sheet	7	8
	Aluminium	6	7
6000	Stainless steel	13	14
	Carbon steel	13	14
	Galvanised sheet	13	14
	Aluminium	12	13



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1	Fiber Laser Source		Continuous fiber laser. Stable 1064-1080nm wavelength, low power attenuation, long service life. Class 4 according to EN 60825 1.
2	4-in-1 Handheld Laser Welding Head & Control System		SUP23T Integrated System. Support 4 functions: Welding / Weld seam cleaning / Rust & paint removal cleaning / Thin metal cutting; lightweight torch, built-in safety interlock, multi-language touch screen
3	Industrial Water Cooling Chiller		(S&A) Special Laser Chiller. Closed-loop liquid cooling; distilled/deionized water; antifreeze below 7 °C; flow and temperature sensors with fault alarm.
4	Automatic Wire Feeder (Standard Equipped)	 The default is single wire feeder. Dual and triple wire feeders are Optional.	Support wire 0.8/1.0/1.2/1.6mm, stable feeding for aluminum & stainless steel welding. Applicable coil weight 5-25 kg; wire diameter 0.8-1.6 mm (continuous and pulsed wire feeding; speed control accuracy ±5.25%).



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5	Fiber and QBH Connector:		<p>Transmission optical fiber, 50 μm core, 10m length (15m length Optional); QBH type connector; minimum bending radius $\approx$ 20 cm.</p>
6	Standard Consumable Package		<p>Protective lens, welding cutting nozzles, maintenance tools, safety laser goggles</p>
7	Supporting Documents	<p>English Version</p>	<p>Operation manual, Operation Video, Maintenance manual, CE certificate copy, factory inspection report</p>

6. Product Advantages

- Stable long-hour continuous work



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Four-in-one multi-function, replace separate welding machine, cleaning machine & cutting machine, save workshop space & procurement cost

Lightweight welding torch, ergonomic design, low fatigue for long-time operation

Multi-language touch screen, preset material parameter library, easy operation for new workers

Multiple safety protection: laser safety Interlock, over-temperature, low water level, overload automatic power-off

7. Product Parameter

Laser welding machine configuration	
Model	KW-M
Laser Power	1500 2000 3000w 6000w optional
Control system model	SUP23T
Water cooler	S&A water chiller
Center wavelength	1064nm
Maximum power consumption:	7.5KW 8KW 10KW 16KW
Cooling Method	Water Cooling
Rated Input voltage/frequency:	220V 50/60Hz Single Phase 1500w 2000w (380V $\pm 10\%$, 50/60 Hz Three Phase) 2000w 3000w
Support language	English, Korean, Japanese, Russian, German, French, Italian, Spanish, Portuguese, Turkish, Greek, Czech, Slovak, Polish, Thai, Vietnamese, Romanian.
Gas	N2 or Ar
Nominal duty cycle:	100%.
Optical fiber diameter:	50 μ m.
Weldable metals:	CS / SS / CU / AL.
Wire diameter:	0.8–1.6 mm.
Dimension (CM)	105*85*101cm 120kg 1500w 2000w 150*70*120cm 250kg 3000w
HS Code :	8515809090



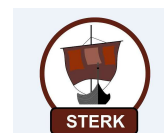
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1. Technical Parameters Of Welding								
1		Spot size (mm)			0.2-5mm adjustable			
2		Working Model			dot/line/circle			
3		Protective lens			D18*2			
4		Auto Wire-feeding			Yes			
5. Gas					N2/Ar			
Technical Parameters Of Cleaning								
1		Line length			10 M			
2		Cleaning efficiency			12 m2/s			
3		Average Power (W), Output Range(If adjustable)			10-100%			
4		Scanning Width (mm)			10-40mm (10-120mm optional)			
5		Expected Focal Distance(mm)			160mm			
Material	Thickn ess/m m	Scan speed	Scan ning width /mm	Peak power /W	duty cycl e	Pulse frequen cy	Wire feeding speed cm/s	Welding wire Diameter(m m)
Carbon Steel	1	300	3	350	100	2000	60	1
	2	300	3	700	100	2000	60	1.2
	3	300	3	1100	100	2000	60	1.2



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	4	300	3	1500	100	2000	60	1.6
	5	300	3	1800	100	2000	50	1.6
	6	220	3	2200	100	2000	50	1.6
	8	220	3	3000	100	2000	40	2
Aluminum/ Brass	1	300	3	500	100	2000	60	ER5356 1.0
	2	300	3	800	100	2000	60	ER5356 1.2
	3	300	3	1400	100	2000	60	ER5356 1.4
	4	300	3	1800	100	2000	60	ER5356 1.6
	5	300	3	2000	100	2000	50	ER5356 1.6
	6	220	3	3000	100	2000	40	ER5356 2.0
Stainless Steel	0.5	300	2	260	100	2000	80	ER304 0.8
	0.8	300	2	300	100	2000	80	ER304 0.8
	1	300	2	350	100	2000	60	ER304 1.0
	2	300	3	700	100	2000	60	ER304 1.0
	3	300	3	1100	100	2000	60	ER304 1.2
	4	300	3	1500	100	2000	60	ER304 1.2
	5	220	3	1800	100	2000	50	ER304 1.6
	6	220	3	2200	100	2000	50	ER304 1.6
	8	220	3	3000	100	2000	40	ER304 2.0



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شهادة – Certificat – 증명서 – 證明書 – Сертификат

Form QAT_10-M05, version 03, effective since June 1st, 2023

CERTIFICATE



No. 4G251013.JKACS77

Test Report / Technical Construction File no. XDX02250471092805FAK, XDX56250471092804PDR

Certificate's Holder: Jinan Knoppo Automation Equipment Co., Ltd.
1608-3, Building 1, Unit Fortune Plaza, Innovation Zone,
Jinan City, Shandong Province, China

Certification
ECM Mark



Product: Fiber Laser Machine
Model(s): (see the following annex)

Verification to: Standard:
EN ISO 12100:2010, EN 60204-1:2018+A1:2025,
EN 60825-1:2014/A11:2021, EN IEC 60825-4:2024,
EN ISO 11553-1:2020/A11:2020, EN IEC 61000-6-4:2019,
EN IEC 61000-6-2:2019
related to CE Directive(s):
2006/42/EC (Machinery)
2014/30/EU (Electromagnetic Compatibility)

Remark:

The manufacturer has voluntarily decided to submit its documents concerning the above-mentioned product for verification. Ente Certificazione Macchine confirms that the documentation made available and immediately returned to it, as containing sensitive data, meets the essential requirements of the above-mentioned directive/standard. The verification activity carried out exclusively concerned the technical documentation and no verification was carried out on the product. This document cannot replace the EC Declaration of Conformity. This document was issued in accordance with regulation 10V001 published on the website of www.entecertmac.it and concerning voluntary certifications with a non-notified procedure.

Issuance date: 13 October 2025

Expiry date: 12 October 2030

For online check:



Approver
Ente Certificazione Macchine
Legal Representative
Luca Redonni



Ente Certificazione Macchine Srl

Via Ca' Bella, 243 – Loc. Castello di Senavalle – 40063 Valsamoggia (BO) – ITALY
☎ +39 051 6705141 ☎ +39 051 6705156 ✉ info@entecertmac.it 🌐 www.entecertmac.it

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شهادة - Certificat - 증명서 - 證明書 - Сертификат - Certificate

Form GAT_10-rv03, version 0.3, effective since June 19th, 2023

Annex I



No. 4Q251013.JKACS77

Test Report / Technical Construction File no. XD80250471092805FAR, XD85471092804FDR

Model(s):

KC-M, KC-R, KW-M, KW-R, KF3015, KF4015, KF4020, KF6015, KF6020, KF6025, KG12, KP3015, KP4020, KP6020, KP6025, KP8025, KP1390, KP1610, KE3015, KE4020, KE6020, KE6025, KE8025, KF-T, KE-T, KP-T, KT6, KT12, KT-A, RF-H, KML-FT, KML-FH, KML-FS, KML-FC



Ente Certificazione Macchine Srl
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