



Pioneer in Industrial Heavy Plate
Laser Welding Technology

WASC1200W/1500W/ 2000W Air-cooled All- in-one Laser Welder

Thick plates handled, thin plates perfected



Kempson Everlens Welding 1+N Series Products
Redefining Welding Economics: Your Optimal **Full-Life-Cycle Cost-Effectiveness** Solution

Four Functions Kempson All in One Air-Cooled Laser



Everlens System: Multi-Protection, 8x Longer Life

Eccentric Rotation Design (3rd Layer Protection)

The unique design enables contaminated lenses to be rotated for secondary use, significantly saving lens costs.

Splash-Proof Special Welding Nozzle (1st Layer Protection)

The upgraded splash-proof welding nozzle significantly reduces spark impact and greatly lowers the risk of lens breakdown.

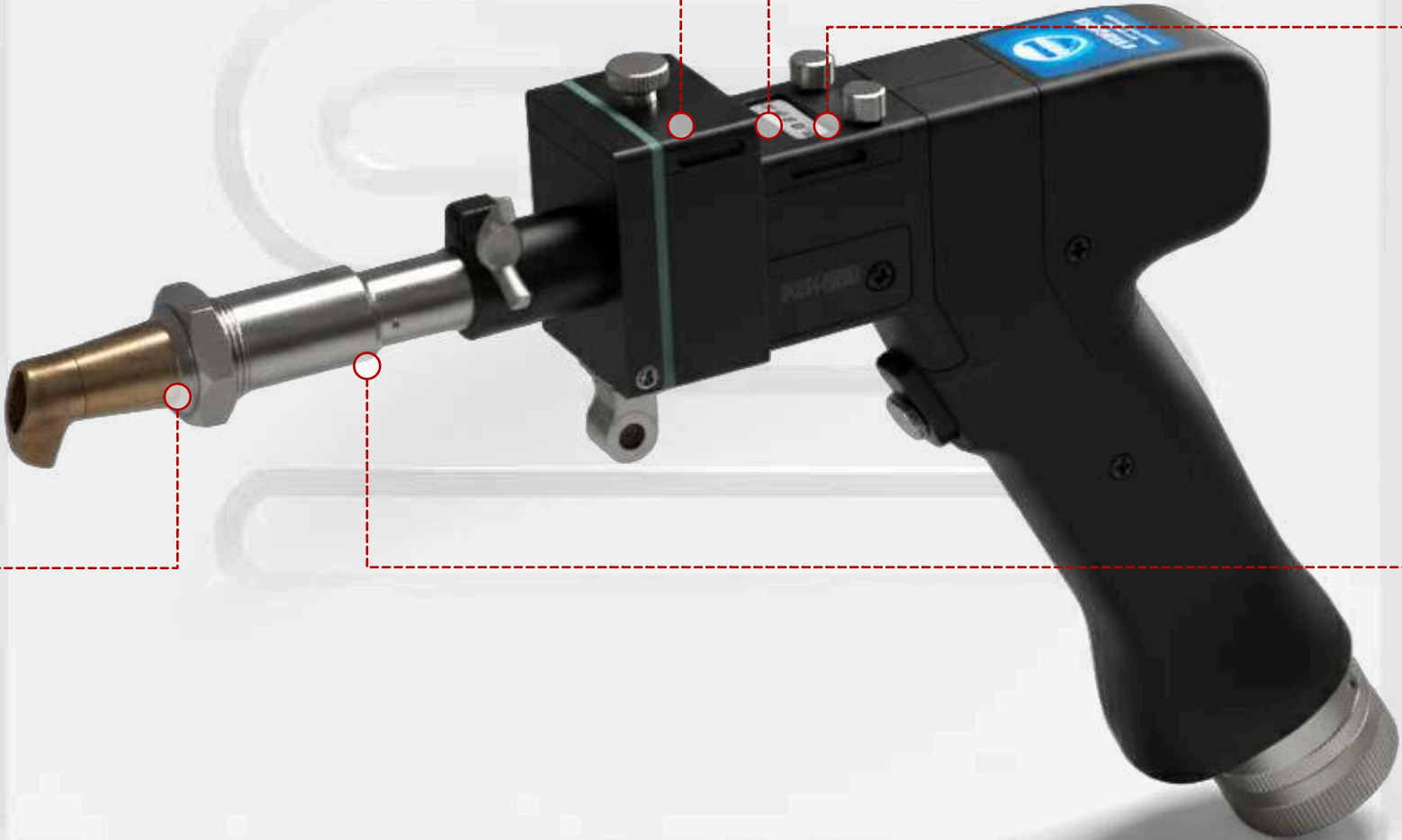
Shielding Lens (4th Layer Protection)

The unique design allows contaminated lenses to be rotated for secondary use, directly saving 50% of lens costs.

Focus Lens

Splash-Proof Special Welding Torch Tube (2nd Layer Protection)

The second layer of splash protection reduces spatter by more than 75% compared with traditional welding torches, better protecting the lens and extending its service life.



Note: All Kempson laser welding equipment is equipped with the Everlens Welding System.

Breakthrough 1

Subversive Innovation Challenging Industry Norms - The Birth of "Everlens"

The Innovation Story Behind Everlens Welding

"Faced with mountains of discarded lenses, the Kempson R&D team set a goal: to break the industry curse of 'laser welding must consume consumables'. **After 18 months and more than 1,200 material tests and structural iterations**, a subversive protective lens system was born."



The "**Invisible Black Hole**" Devouring Your Profits in Industrial Welding



Fragile Shielding Lenses

It's an industry "rule" that lenses are high-frequency consumables. Under harsh working conditions such as steel structure and hardware processing, the service life of lenses is even calculated in "hours" or "shifts".

Pain Point: During an 8-hour shift, it may be necessary to replace more than a dozen lenses. Each shutdown for replacement interrupts the production rhythm, and the accumulated consumable costs become a heavy burden.

You have **more hidden costs** to bear

Equipment procurement price

Shutdown and downtime costs

Operations such as cylinder replacement, maintenance of worn parts, and handling sudden failures will cause production interruptions and waste working hours.

Consumable wear costs

Vulnerable parts such as shielding lenses are consumed quickly and need frequent replacement, constantly pushing up equipment operating costs.

Post-welding processing costs

Traditional welding produces rough and uneven welds, requiring additional manpower for grinding and trimming.

When enterprises purchase industrial equipment, they often focus on the initial purchase price. However, this is like the tip of an iceberg above the sea - the explicit cost is only a small part of the total cost. The real cost of a welding machine actually includes various "hidden costs" that continuously arise throughout the equipment's entire lifecycle. These costs will continuously erode the enterprise's budget and reduce production efficiency.

Beyond One-Time Price, Focus on Total Cost of Ownership (TCO)



We deeply understand that compared with the one-time purchase price, the Total Cost of Ownership (TCO) is the key factor determining production efficiency. The Kempson Laser Welding Machine is a groundbreaking product innovatively developed from the ground up. Its core design goal is to accurately target and completely eliminate these hidden costs, making professional welding operations more efficient and economical.



Proven Value in Real-World Industrial Use Up to \$4,000 Saved Annually

\$3,642.5

A laser welding machine integrated with the core technology of the self-developed Everlens Protection System has been officially put into operation at a large-scale steel structure plant in the United States. Compared with traditional welding equipment, the customer has calculated key cost optimization data: By virtue of the robust protection of lenses provided by the Everlens Protection System and its adaptation to variations in welding conditions for plates of different thicknesses, annual savings on lens consumables amount to 4,000 USD, and the frequency of lens replacement is reduced by over 80%. This results in a substantial decrease in downtime costs and a marked improvement in the Overall Equipment Effectiveness (OEE).

"Redefining Welding Economics" is not an abstract concept, but a full-process production cost optimization solution tailored to customers. Its value has been fully validated in industrial practice.



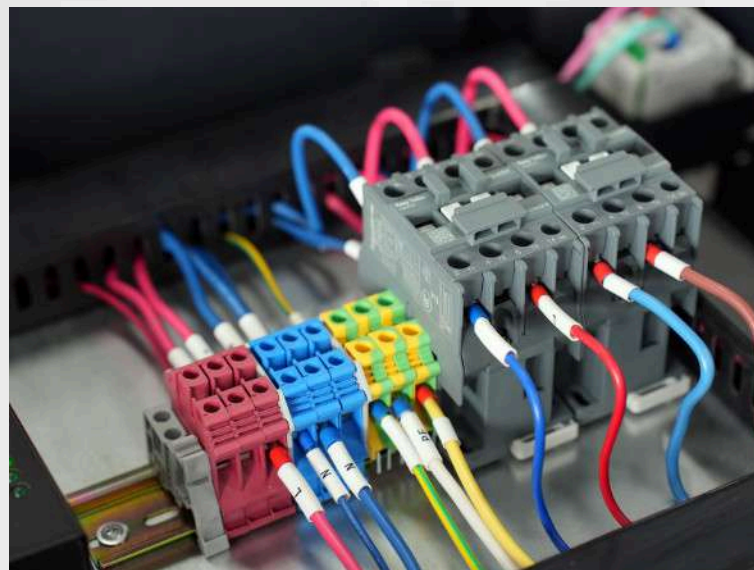
> Innovative Welding Torch

> Premium Performance

> Self-Developed High Quality
Step Wire Feeder



Custom-Developed for Outdoor Production Environments - **More Than Just Saving Consumables**



Electrical Components

Adopt Schneider Electric (France) with stable performance and long service life.



Maxphotonics Laser

High Efficiency, Deep Weld Penetration, Anti-High Reflection Technology, and Low Power Consumption.



Portable Operation

Integrated design, suitable for moving working. The only real integrated design in China

Premium Plate Welding Effect

For Model 2000W, the following welding thickness can be achieved

5.5mm

Maximum Weldable Thickness

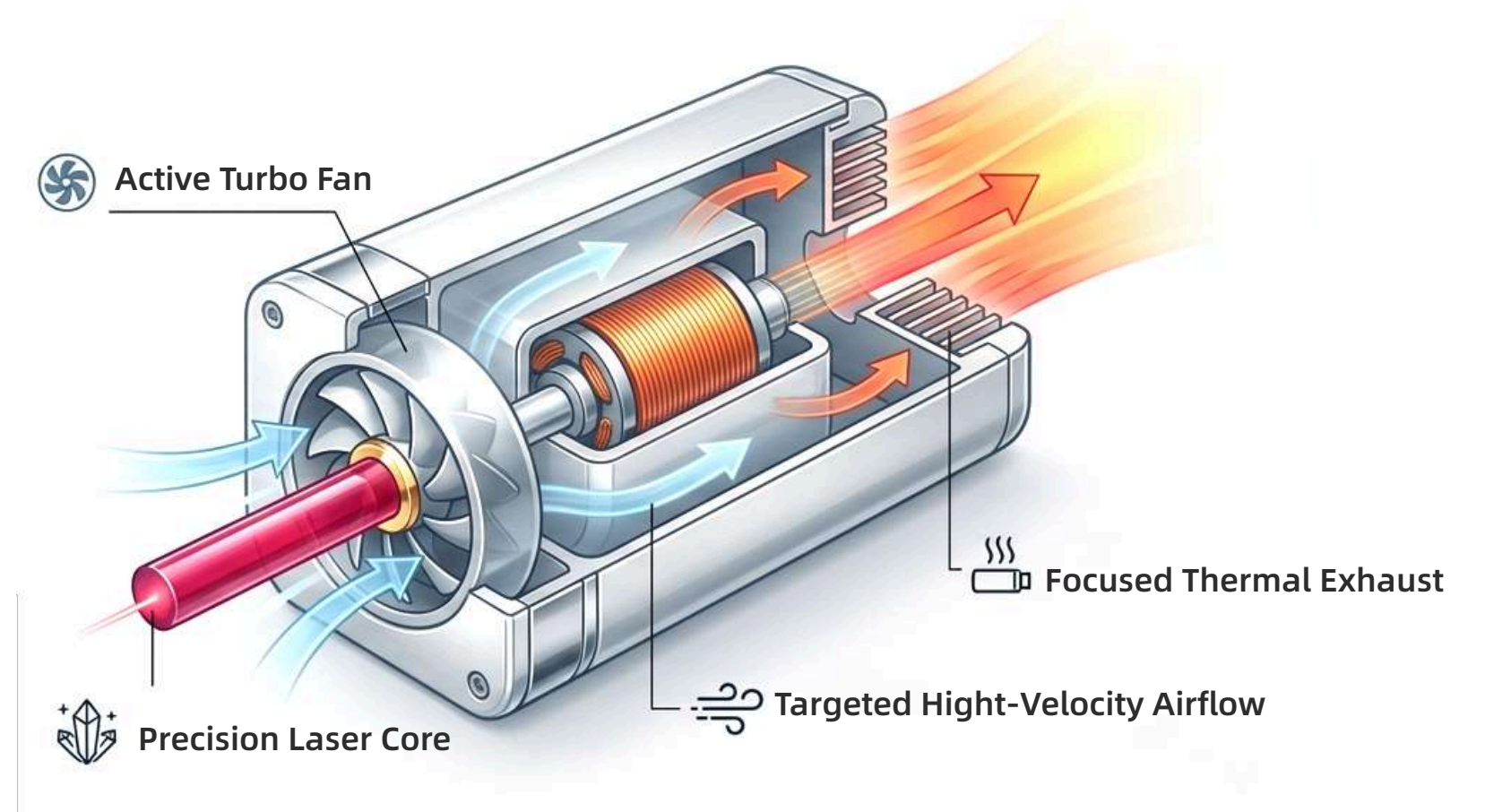
5.5mm

Maximum Wide Weld Bead

Single-side welding forming can be achieved for plate thinner than 5.5mm, perfectly meeting the stringent requirements of outdoors thin plate industry customers such as Guardrail industry and advertising industry Home Appliances, Hardware etc.

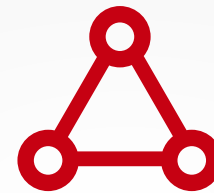
Cool, Calm, and Continuous Our Intelligent **Air-Cooling System**

Think of it as an intelligent, non-stop electric fan for the laser's core. A powerful, intelligently controlled fan uses high-speed airflow to directly "blow" away heat, ensuring peak performance and extending the service life of the equipment.



High Efficiency

Optimizes thermal management for sustained power output



Unwavering Stability

Ensures consistent performance even in demanding environments.



Maintenance-Free Operation

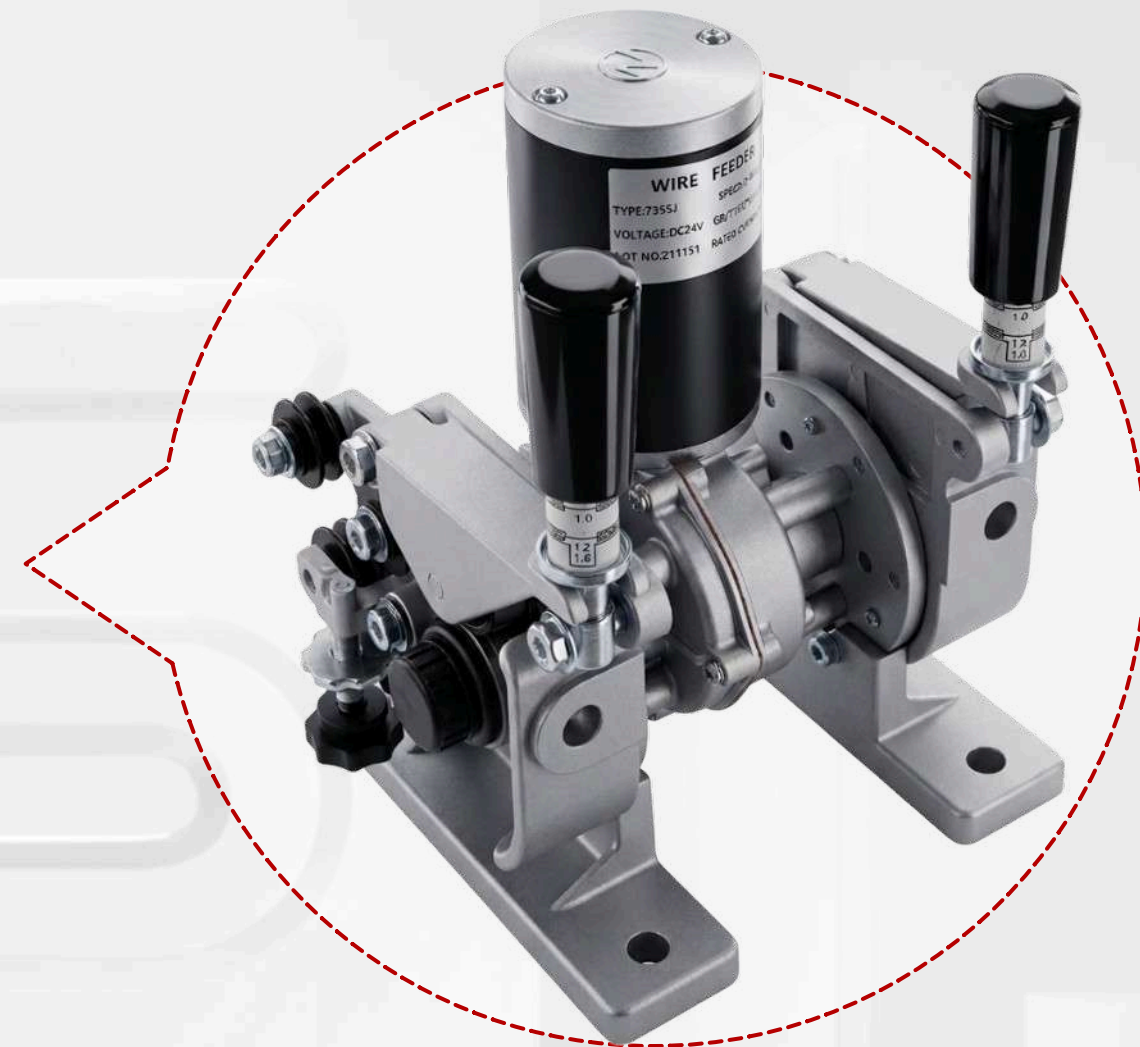
Eliminates the need for regular cleaning or fluid changes.

Self-Developed Dual-wire feeder-Guarantee of Excellent Welding Results

Built-in calibration system **to prevent wire jamming**

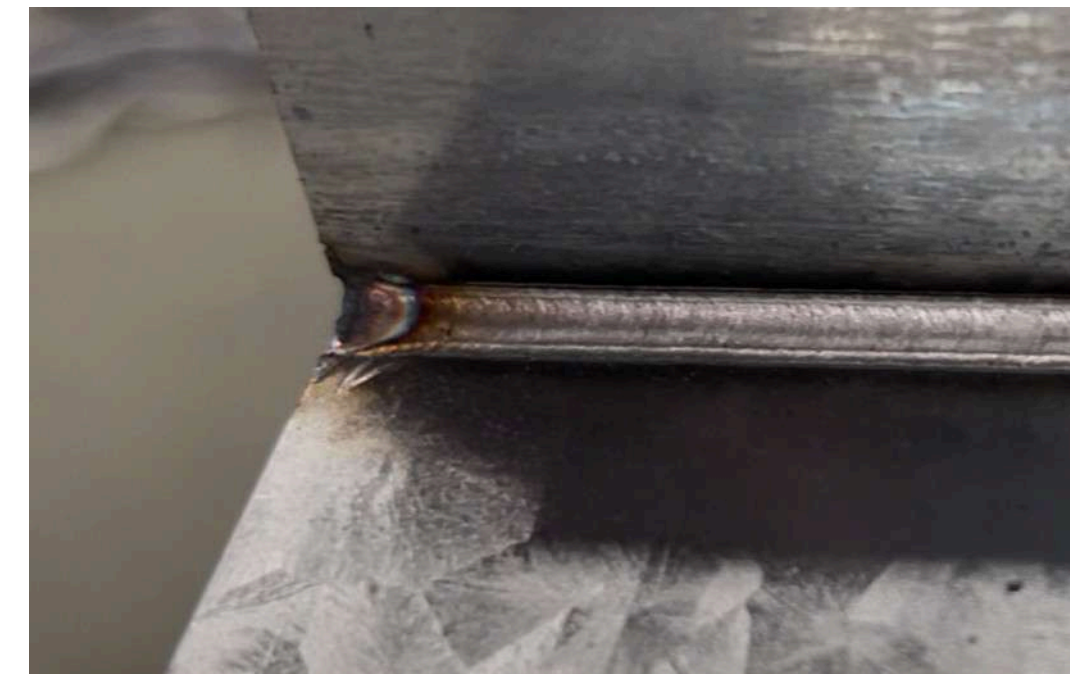
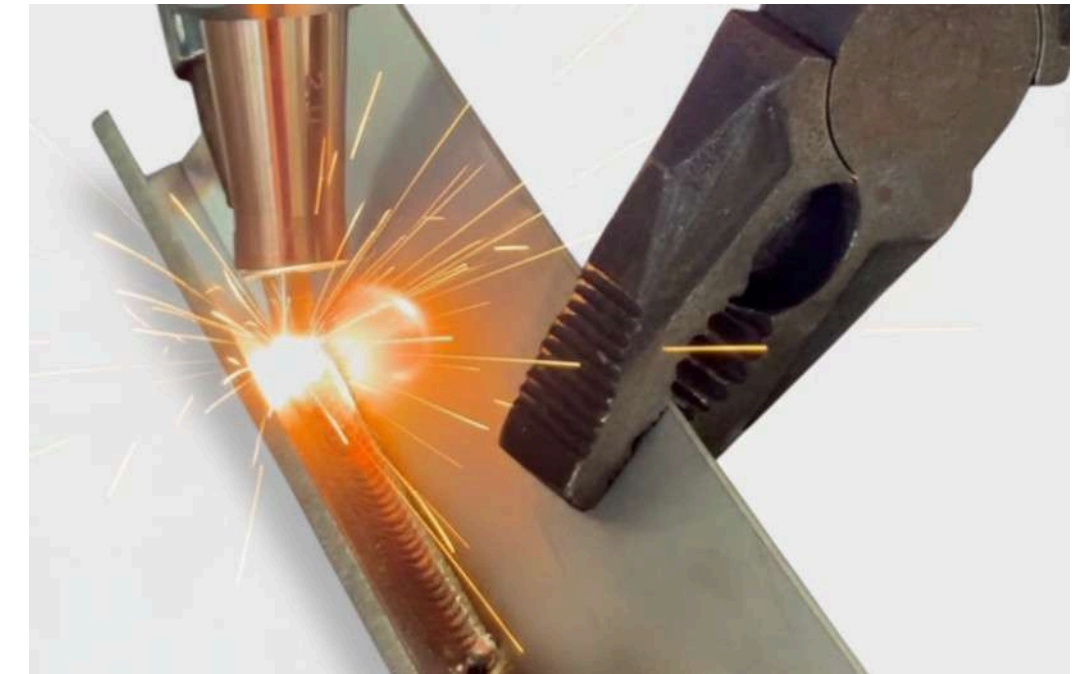
Precise and stable feeding when using a single thin wire

Kempson's dual-wire feeder produces wider and fuller weld beads. A typical **1500W air-cooled welding machine** can achieve a maximum weld width of 3mm, while our air-cooled integrated welder reaches **up to 4.5 mm**, leading the industry in efficiency.



Integrated Dual-Wire, No External Attachment

See for Yourself: **Excellent Welding Process**



Choose Kempson, Choose Better Cost-Effectiveness

Cost Center	Traditional Method	Kempson Solution
Protection Lens	Continuous procurement costs	6-8 times lifespan
Subsequent Processes	Grinding required	Grinding eliminated
Working Mode	One welding mode	Welding/cutting/cleaning/derusting
controlling system	Single Mode and Single language	Multi-mode intelligent control screen with 9 switchable languages

Smart Purchase, More Economical Operation

Technical Parameters

Model	KPS-WASC1200	KPS-WASC1500	KPS- WASC2000
laser power	1100W	1500W	2000W
Welding angle thickness (stainless steel)	2.0mm	2.5mm	5mm
Welding angle thickness (carbon steel)	2.5mm	3mm	5.5mm
Welding angle thickness (aluminum alloy)	2.0mm	2mm	4.5mm
automatic wire feeding	f0.8-1.6 welding wire	f0.8-1.6 welding wire	f0.8-2.0 welding wire
Total power consumption of the device	≤2.5kw	≤2.5kw	≤3kw
cooling-down method	Air-cooled	Air-cooled	Air-cooled
work pattern	continuous-pulse	continuous-pulse	continuous-pulse
mode of operation	Panel-APP-Remote Diagnosis	Panel-APP-Remote Diagnosis	Panel-APP-Remote Diagnosis
demand for electricity	220v	220v	220v
Device size	0.4*0.66*0.8m	0.4*0.66*0.8m	0.4*0.66*0.8m
weight of equipment	≈62kg	≈63kg	≈67kg
weld width	1.5~4.5mm	1.5~4.5mm	1.5~5.5mm

The hand-held welding head is equipped with a 7-meter optical fiber as standard, enabling flexible and convenient outdoor long-distance welding.

Deeply Engaged in the Laser Welding Track

More Than 30 Patents Build a Solid Technological Moat

28

Utility Model Patents

4

Appearance Patents

1

Invention Patent

Patent NO.

[ZL202130808753.6]

[ZL202321366809.7]

[ZL202320242516.1]

[ZL202221937026.5]



Three-in-One Certification Guarantee

Possesses CE, FDA product certifications, and ISO Quality Management System Certification, providing you with globally recognized safety and quality commitments.




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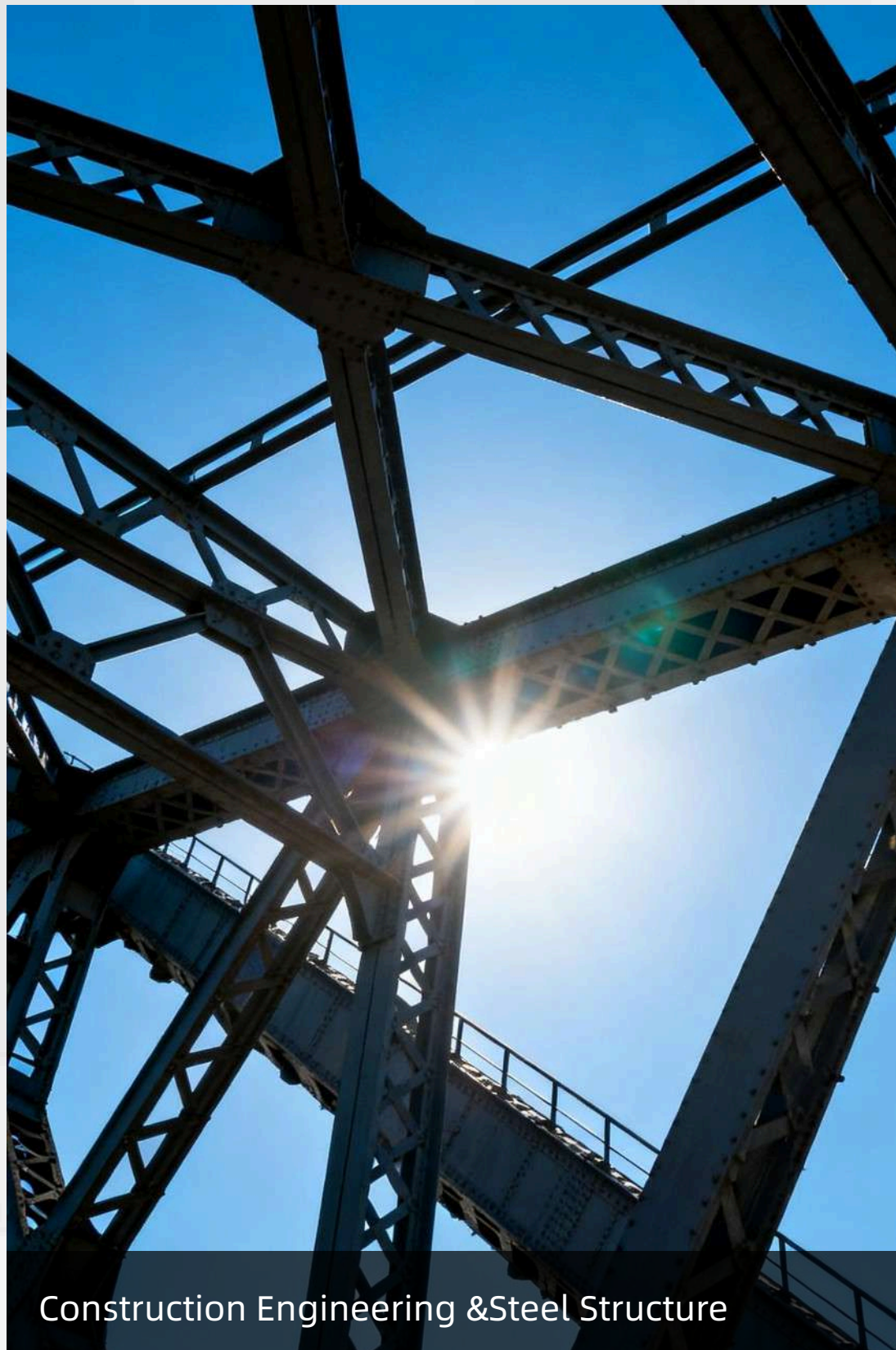



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Powering Progress Across Industries



Construction Engineering & Steel Structure



Advertising Signage & Metal Letter Manufacturing



Automobile Manufacturing & Maintenance



Metal Crafts & Creative Industries



Furniture, Doors & Windows (Hardware)



Kem

Kempson Anime IP Ambassador

Cooperate with Kempson Embark on a New Era of Efficient Welding

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Kempson: Total Lifecycle Cost-Effectiveness Expert for industrial Welding

Investing in Kempson means investing in a more efficient, stable, and cost-controllable production future.

We provide not just a piece of equipment, but a complete total lifecycle cost optimization solution.

Kempson·Smart Procurement, More Economical Operation

