

LASER

 **JASIC®**



**LASER
ENABLE**

LS-20000F

 **JASIC®**

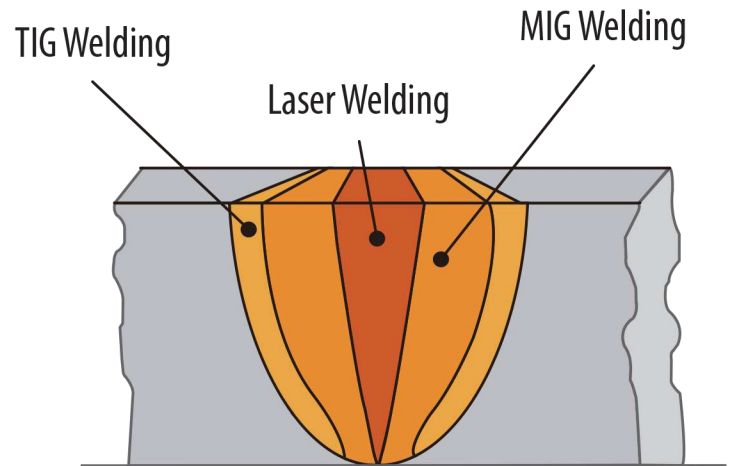
Fibre laser is an emerging technology within the sheet metal fabrication industry that uses a laser beam to melt and join metals.

Fibre laser technology is a great supplement to conventional welding methods in many fabrication applications and can offer advantages over conventional welding methods.

It delivers excellent welding results at low production costs when compared with conventional welding methods. As the challenges of the metal fabrication industry grow, this new technology can significantly improve fabricators efficiency and profitability in a competitive landscape where fast project delivery and effective cost control is vital.

This technology is much more precise than MIG/TIG with faster welding speeds, uniform weld beads and minimal material distortion thanks to the limited heat affected zone (HAZ).

Comparison of HAZ



In Comparison To Other Types Of Welding Technologies...

Welding Technology	Arc Welding	Solid YAG Laser	CW Handheld Fibre Laser	
Welding Experience	Heat input	High	Low	
	Distortion	High	Low	
	Weld seam processing	Fillet	Fillet	Variable
	Post weld processing	Yes	Yes	No
	Welding speed	Low	Medium	High
Sustainability	Ease of use	Low	High	
	Hazard to people	High	Low	
	Pollution to environment	High	High	Low
Cost	Consumables	Electrode/Welding wire/Shielding gas	Crystal, Xenon gas	Shielding gas
	Energy efficiency	High	Low	High
	Skill requirement	High	Moderate	Low
	Footprint	Small	Large	Small

Why JASIC Handheld Fibre Laser Welding?



High Welding Efficiency

- Up to 10x faster than manual TIG welding
- Very limited spatter thus little post-weld cleaning needed
- Little need for rework thanks to minimal porosity, undercut or distortion



Cost Efficient

- Minimal welding expertise needed, cut down costs incurred from experienced welders
- Almost 0 maintenance need for key component, pump source has over 100k hours life span



High Usability

- New industrial design featuring better ergonomics, flexibility and reliability
- Colour touch screen control panel with intuitive user interface
- Comprehensive job parameter settings
- Small foot print, great mobility and flexibility



High Energy Efficiency

- CW (continuous wave) laser with 40+% electro-optical conversion efficient, 10x that of a solid YAG laser



2 - Year Warranty

- Comprehensive quality assurance

Jasic Laser Welder 15000

ORDER CODE **LS-15000F**



KEY FEATURES

- Easy to navigate touchscreen display
- Single wire feed unit
- 4 roll wire feeder
- Excellent welding performance
- Simple lens change method
- Water cooled fibre laser source for high duty cycle operation
- Spot and continuous welding mode
- Ability to store jobs

The Jasic LS-15000F Laser Welder is designed to redefine efficiency and precision in professional welding applications. With a welding speed up to 10x faster than traditional manual TIG welding, significantly reducing project time while ensuring exceptional weld quality.

Engineered for cost efficiency, the LS-15000F eliminates the need for extensive welding expertise, helping companies reduce reliance on highly experienced welders.

Featuring an innovative industrial design, the LS-15000F offers ergonomic flexibility and ease of use, complete with a colour touchscreen control panel.

Powered by a CW laser with over 40% electro-optical conversion efficiency, it outperforms traditional solid YAG lasers with 10x the energy efficiency.

TECHNICAL DATA

Input power supply	1P AC230V (-10% - +15%) 50Hz	
Input power	5.8 kW	
Centre wave length	1080 ± 10nm	
Electro-optical conversion efficiency	≥40%	
Laser power	1500W	
Fibre cable length	6m	
Cooling method	Water cooled	
Single wire welding and self fusion welding	Scan width	0~6mm
	Welding wire diameter	0.8/1.0/1.2/1.6mm
	Shielding gas	Argon/nitrogen (≥3 bar)
	Welding thickness	0.5 - 5mm
	Penetration	0.5 - 3mm
	Welding gap range	≤Welding wire diameter
Water tank capacity	8L	
Operating temperature	-10°C - 40°C; antifreeze needed when ≤5°C	
Operating humidity	≤70% at 40°C; ≤90% at 20°C	
Power source weight	85Kg	
Packed weight	103Kg	
Packed weight of wire feeder and accessories	17.5Kg	
Power source dimensions	773 x 410 x 737mm	
Package dimensions	865 x 475 x 1035mm	
Package dimensions of wire feeder and accessories	890 x 320 x 430mm	

STANDARD ACCESSORIES

Single Wire Feed Unit

OPTIONAL ACCESSORIES



KEY FEATURES

- Easy to navigate touchscreen display
- Single wire feed unit
- 4 roll wire feeder
- Excellent welding performance
- Simple lens change method
- Water cooled fibre laser source for high duty cycle operation
- Spot and continuous welding mode
- Ability to store jobs

The Jasic LS-20000F Laser Welder is designed to redefine efficiency and precision in professional welding applications. With a welding speed up to 10x faster than traditional manual TIG welding, significantly reducing project time while ensuring exceptional weld quality.

Engineered for cost efficiency, the LS-20000F eliminates the need for extensive welding expertise, helping companies reduce reliance on highly experienced welders.

Featuring an innovative industrial design, the LS-20000F offers ergonomic flexibility and ease of use, complete with a colour touchscreen control panel.

Powered by a CW laser with over 40% electro-optical conversion efficiency, it outperforms traditional solid YAG lasers with 10x the energy efficiency.

TECHNICAL DATA

Input power supply	1P AC230V (-10% - +15%) 50Hz	
Input power	7.8 kW	
Centre wave length	1080 ± 10nm	
Electro-optical conversion efficiency	≥40%	
Laser power	20000W	
Fibre cable length	12m	
Cooling method	Water cooled	
Single wire welding and self fusion welding	Scan width	0~6mm
	Welding wire diameter	0.8/1.0/1.2/1.6mm
	Shielding gas	Argon/nitrogen (≥3 bar)
	Welding thickness	3 - 6mm
	Penetration	3 - 5mm
Welding gap range	≤Welding wire diameter	
Double wire welding	Scan width	0 - 6mm
	Welding wire diameter	1.2/1.6mm
	Shielding gas	Argon/nitrogen (≥3 bar)
	Welding thickness	3 - 6mm
	Penetration	3 - 5mm
Welding gap range	≤ Welding wire diameter	
Water tank capacity	8L	
Operating temperature	-10°C - 40°C; antifreeze needed when ≤5°C	
Operating humidity	≤70% at 40°C; ≤90% at 20°C	
Power source weight	92Kg	
Packed weight	110Kg	
Packed weight of wire feeder and accessories	17.5Kg	
Power source dimensions	773 x 410 x 737mm	
Package dimensions	865 x 475 x 1035mm	
Package dimensions of wire feeder and accessories	890 x 320 x 430mm	

STANDARD ACCESSORIES

Single Wire Feed Unit

OPTIONAL ACCESSORIES

Dual Wire Feed Unit

Jasic Laser Welder 20000

ORDER CODE **LS-20000F-D**



KEY FEATURES

- Easy to navigate touchscreen display
- Dual wire feed unit gives the option of running one or two wires, for higher deposition rates
- 4 roll wire feeder
- Excellent welding performance
- Simple lens change method
- Water cooled fibre laser source for high duty cycle operation
- Spot and continuous welding mode
- Ability to store jobs

The Jasic LS-20000F Laser Welder is designed to redefine efficiency and precision in professional welding applications. With a welding speed up to 10x faster than traditional manual TIG welding, significantly reducing project time while ensuring exceptional weld quality.

Engineered for cost efficiency, the LS-20000F eliminates the need for extensive welding expertise, helping companies reduce reliance on highly experienced welders.

Featuring an innovative industrial design, the LS-20000F offers ergonomic flexibility and ease of use, complete with a colour touchscreen control panel.

Powered by a CW Laser with over 40% electro-optical conversion efficiency, it outperforms traditional solid YAG lasers with 10x the energy efficiency.

TECHNICAL DATA

Input power supply	1P AC230V (-10% - +15%) 50Hz	
Input power	7.8 kW	
Centre wave length	1080 ± 10nm	
Electro-optical conversion efficiency	≥40%	
Laser power	20000W	
Fibre cable length	12m	
Cooling method	Water cooled	
Single wire welding and self fusion welding	Scan width	0~6mm
	Welding wire diameter	0.8/1.0/1.2/1.6mm
	Shielding gas	Argon/nitrogen (≥3 bar)
	Welding thickness	3 - 6mm
	Penetration	3 - 5mm
	Welding gap range	≤Welding wire diameter
Double wire welding	Scan width	0 - 6mm
	Welding wire diameter	1.2/1.6mm
	Shielding gas	Argon/nitrogen (≥3 bar)
	Welding thickness	3 - 6mm
	Penetration	3 - 5mm
	Welding gap range	≤ Welding wire diameter
Water tank capacity	8L	
Operating temperature	-10°C - 40°C; antifreeze needed when ≤5°C	
Operating humidity	≤70% at 40°C; ≤90% at 20°C	
Power source weight	92Kg	
Packed weight	110Kg	
Packed weight of wire feeder and accessories	17.5Kg	
Power source dimensions	773 x 410 x 737mm	
Package dimensions	865 x 475 x 1035mm	
Package dimensions of wire feeder and accessories	890 x 320 x 430mm	

STANDARD ACCESSORIES

Dual Wire Feed Unit

OPTIONAL ACCESSORIES

Single Wire Feed Unit