

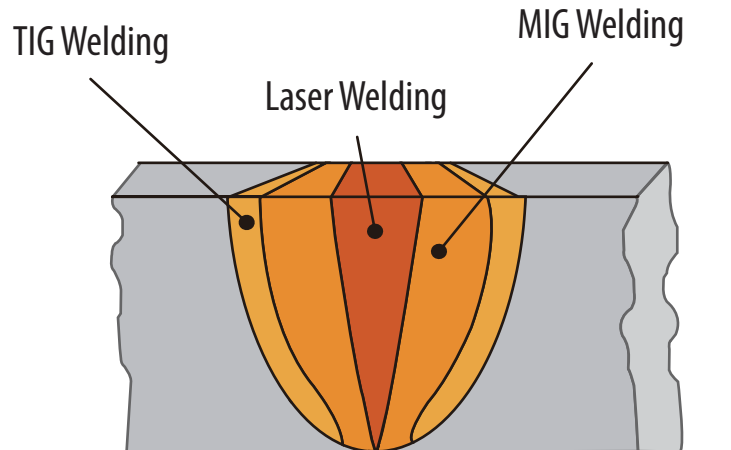
Fibre laser is an emerging technology within the sheet metal fabrication industry that uses a laser beam to melt and join metals.

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