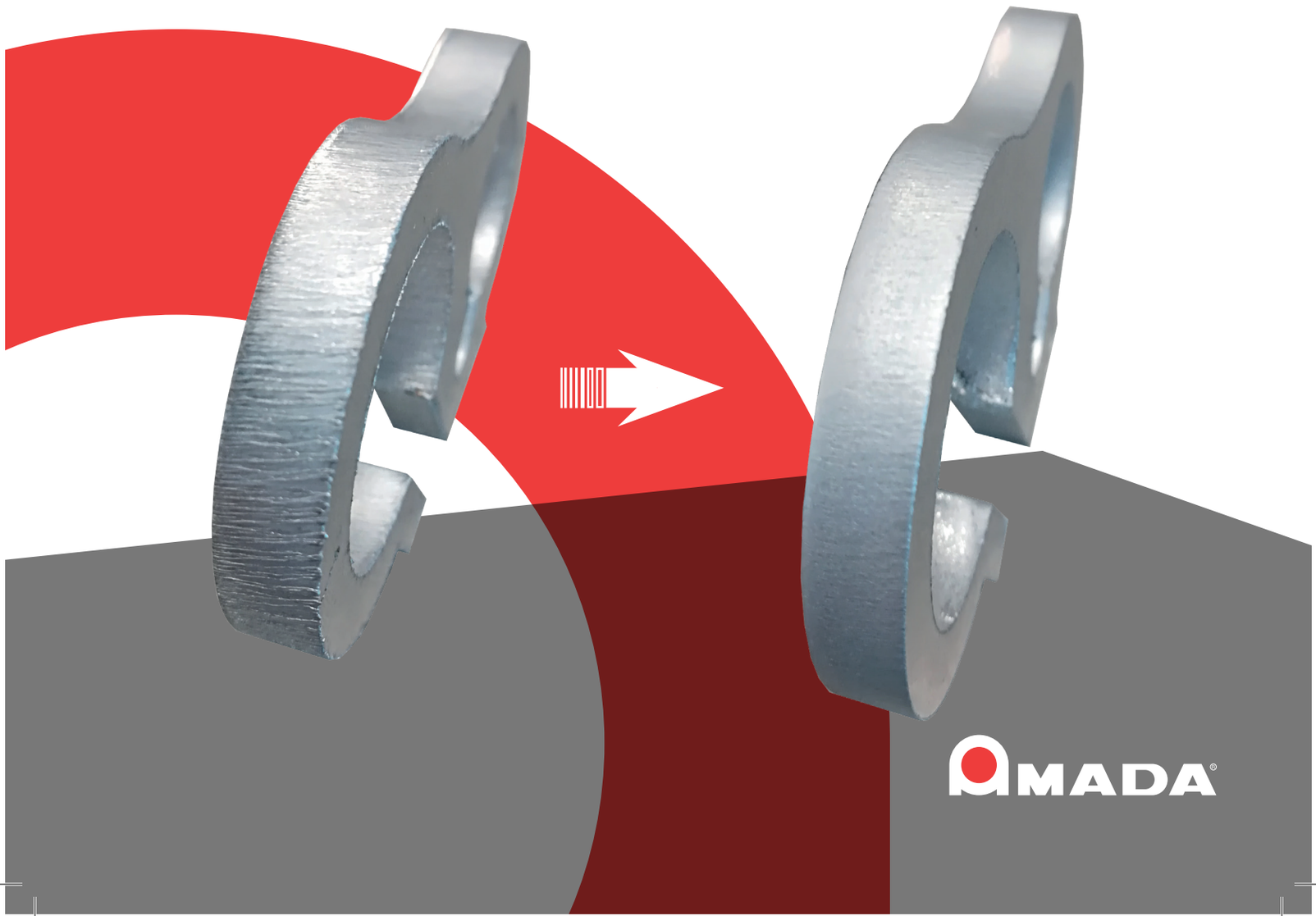
SOLUTION

ENHANCED FIBRE LASER PROCESSING

GAS MIX TECHNOLOGY

HIGH QUALITY ALUMINIUM AND MILD STEEL CUTTING

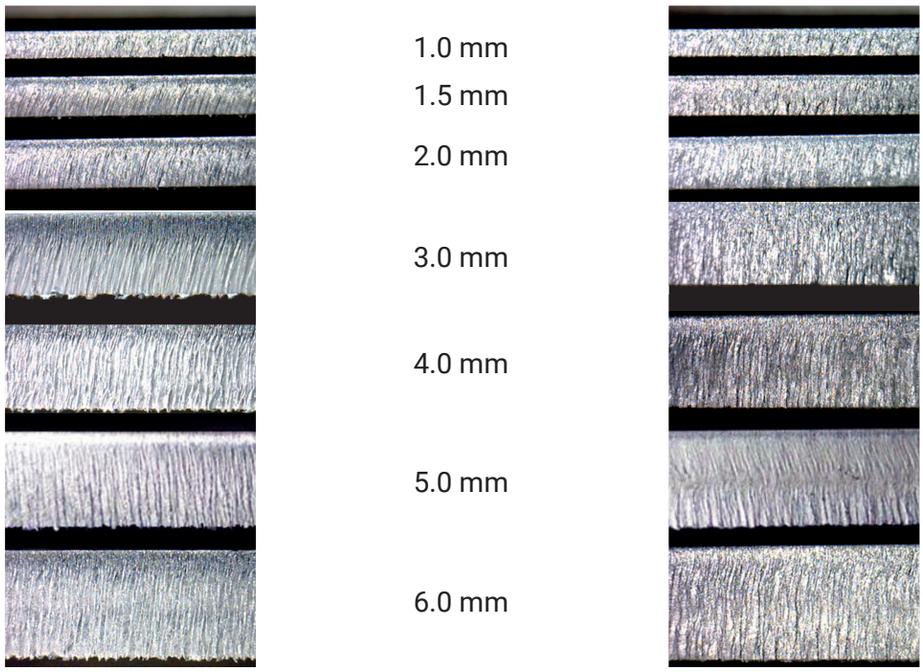


ENHANCED FIBRE LASER PROCESSING

HIGH QUALITY ALUMINIUM AND MILD STEEL CUTTING

Cutting aluminium and mild steel with oxygen causes problems later in the manufacturing process. There is the inability to consistently weld aluminium parts cut with oxygen, and mild steel needs the oxidised scale removing before welding. Nitrogen cutting is one option, but can lead to lower quality parts, especially in thicker plate.
Using mixed gases allows a high quality finish to be obtained (without dross for aluminium and less dross vs nitrogen / without scale vs oxygen for mild steel), removing the potential bottlenecks further down the production line.

IMPROVED HIGH QUALITY FIBRE LASER ALUMINIUM PROCESSING EXAMPLES



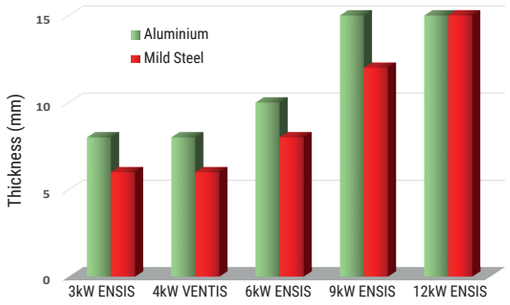
Material : Aluminium - Fibre Laser cutting machine 4 kW

DUAL GAS MIXING SYSTEM WITH VARIABLE PRESSURE SETTINGS

- Continuous variable mixture settings
- Possibility to change quickly between pure nitrogen and gas mixer cutting when required.
- Independent of pressure fluctuations
- Lockable transparent door for protection of settings
- Splash-proof and robust stainless steel housing
- Parts are welding-ready after mixed gas cutting

Gas Mixer models
- **MG 50-A**
- **MG 100-A**

SPECIFICATIONS



Note: results achieved may vary depending on material, gases and laser cutting equipment, parameters and conditions. AMADA teams remain at your disposal to qualify the reachable results within your own environment.

AMADA UK LTD.
Spennells Valley Road,
Kidderminster,
Worcestershire DY10 1XS
United Kingdom
Tel: +44 (0)1562 749500
Fax: +44 (0)1562 749510
www.amada.co.uk

AMADA SA
Paris Nord II
96, avenue de la Pyramide
93290 Tremblay en France
France
Tél : +33 (0)1 49 90 30 00
Fax : +33 (0)1 49 90 31 99
www.amada.fr

AMADA GmbH
Amada Allee 1
42781 Haan
Germany
Tel: +49 (0)2104 2126-0
Fax: +49 (0)2104 2126-999
www.amada.de

AMADA ITALIA S.r.l.
Via Amada I., 1/3
29010 Pontenure
(PC)
Italia
Tel: +39 (0)523-872111
Fax: +39 (0)523-872101
www.amada.it

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