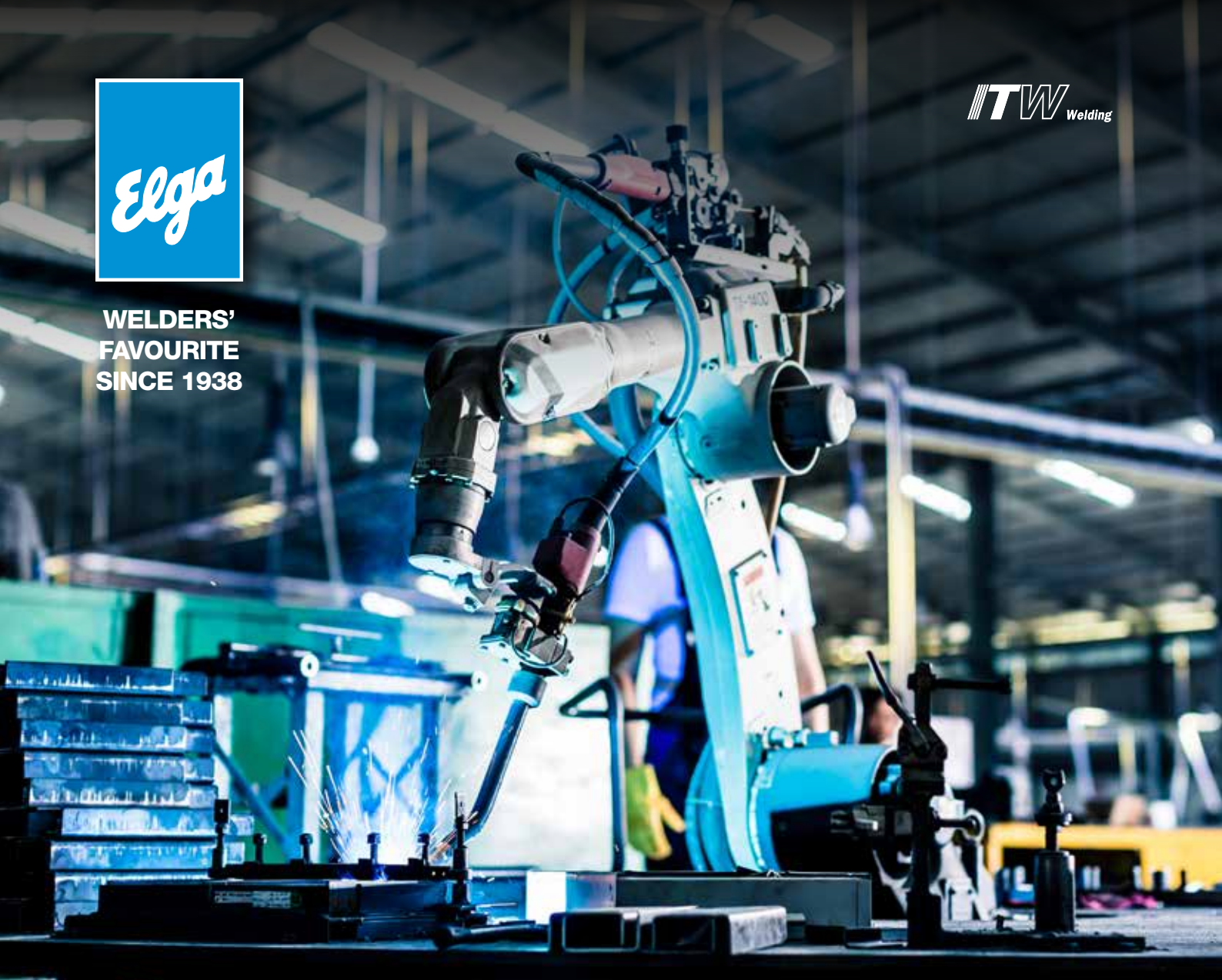




**WELDERS'
FAVOURITE
SINCE 1938**

TW Welding



ELGACORE MATRIX

Premium metal-cored wire for the professionals

ELGACORE MATRIX

PREMIUM METAL-CORED WIRE

Elgacore Matrix metal-cored wires are designed for carbon steels and provide welders with what they expect, true welding excellence from a premium wire.

With deposition rate efficiencies of up to 97%, Elgacore Matrix wires are getting the attention of cost conscious metal fabricators, with their excellent arc-starting and repeatability. And because of their higher deposition rates and faster travel speeds they are ideal for automatic and robotic applications.

Some of the outstanding features and benefits of the Elgacore Matrix metal-cored wire:

- Ultra consistent performance
- Unsurpassed feeding capability
- Exceptional bead appearance even over mill scale
- Reduced spatter and silicon islands
- Higher deposition rates
- Excellent penetration and side wall fusion

These features provide you with increased productivity, superior quality welds and reduced cleanup time. All of which add up to faster production time and increased savings to your bottom line.

A unique manufacturing process ensures you a better product

Our new proprietary manufacturing process creates the tightest seam in the industry. This enables us to provide the most consistent product available today, ensuring you a consistent weld every time.



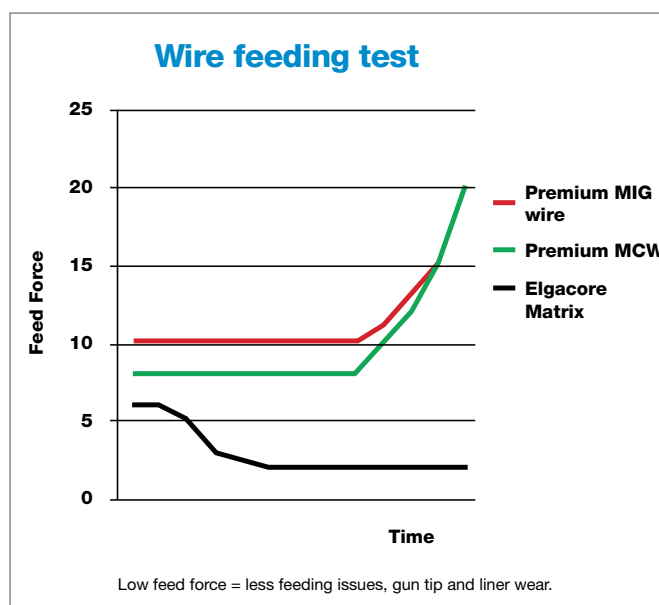
Elgacore Matrix wire seam cross section ultra-consistent seam, smooth and tight.

Revolutionary feeding capability. We have created the best feeding wire in the industry.

Our unique process gives us superior feeding over long distances even through loops, ensuring you the best consistent weld every time.



Wire feeding test 7.62 m gun with two loops



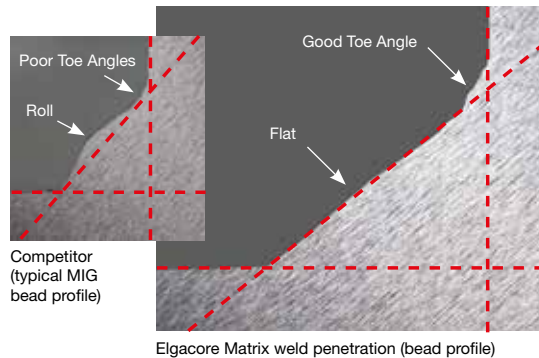
Bead shape – over millscale

Elgacore Matrix provides the most consistent bead shape in the industry and has better wash-in than any product available giving the best appearance and extended fatigue life.

Penetration

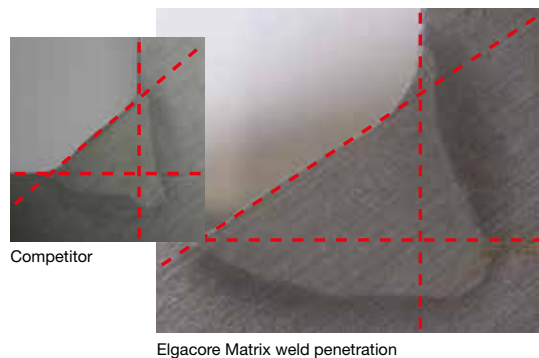
Elgacore Matrix produces a defined and repeatable rounded symmetrical penetration profile. This benefits both semi-automatic, as well as robotic/automation applications as wire placement is not as critical as with solid wire. This saves time and money.

* Photo results based on 12 m/min, 29.5V, 50 cm/min travel, 90/10 Ar/CO₂ settings.



Bead appearance

Elgacore Matrix delivers exceptionally clean weld beads with minimal silicon islands, and the toe beads are almost totally free of silicon deposits. Elgacore Matrix saves costly clean-up time which helps your bottom line.



Elgacore Matrix weld bead

Increased productivity

If summing up all advantages for the Elgacore Matrix which are ultra consistent performance, unsurpassed feeding capability, exceptional bead appearance even over mill scale, reduced spatter, reduced silicon islands, higher

deposition rates and excellent penetration, the outcome of changing to Elgacore Matrix will lead to higher productivity.

So why wait, try our new wire today!





ELGACORE MATRIX

Elgacore Matrix

EN ISO T 46 4 M M 3 H5

AWS E 70C-6M H4

Elgacore Matrix is a revolutionary new metal-cored welding wire designed to provide maximum performance in automation and robot applications. The wire is manufactured with the most advanced technology in the industry to achieve unparalleled uniform quality. Elgacore Matrix provides good impact toughness at -40°C, superior metal-wetting ability, minimal silicon islands and an extremely soft and stable arc. The wire is suitable for welding with either 100% CO₂ or 75% Ar/25% CO₂ shielding gas.

Applications

- Automatic and mechanized welding
- Heavy equipment
- Process piping
- General fabrication

DIAMETERS AND PACKAGES

Diameter	15 kg spool	250 kg drum
1,2 mm	92621012	92622212
1,4 mm	92621014	92622214



**UNRIVALED PERFORMANCE,
UNCOMPROMISED CONSISTENCY.**



WELDERS' FAVOURITE SINCE 1938



Elga has been renowned for being the most demanding welders' choice ever since the very beginning. Starting as a family company in Gothenburg, Sweden, we have grown into a major supplier of consumables for the toughest and most challenging end-use welding areas. Today, we support

welders across the globe with reliable consumables, equipment and know-how. As part of the global ITW group, we have the expertise and resources to continuously improve welding quality as well as productivity.

Welcome to our world!



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THE ART OF WELDING