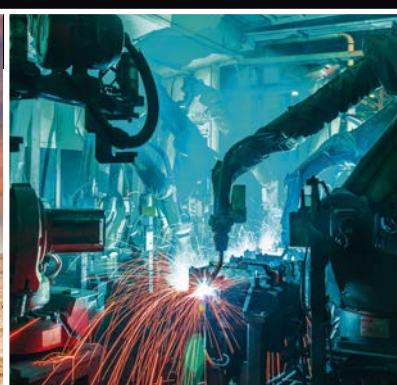
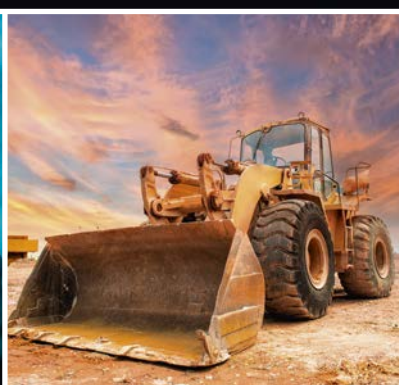
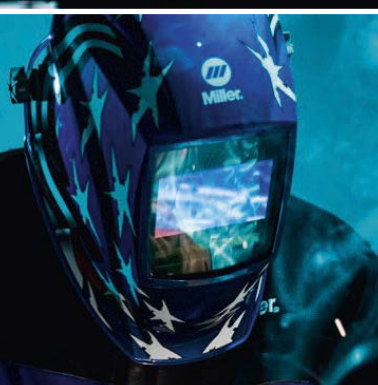
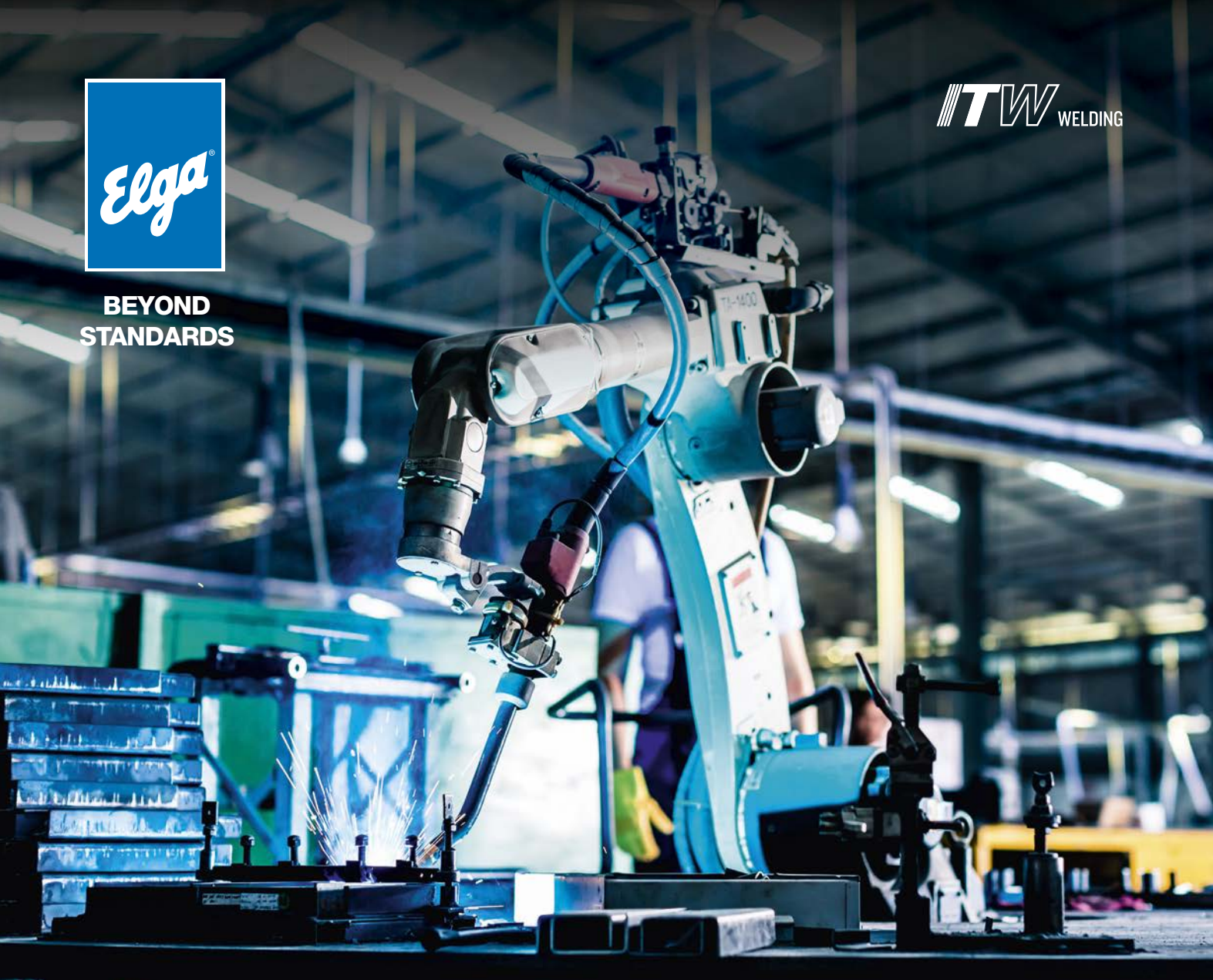




BEYOND
STANDARDS

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. Recent developments on the manufacturing technology has significantly improved arc stability at lower parameters which makes the wire also excellent for semi-automatic 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.

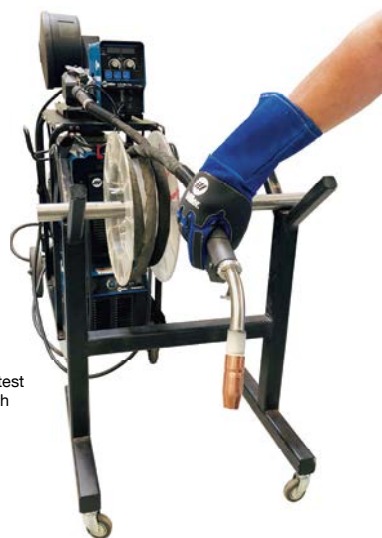


Elgacore® Matrix wire seam cross section ultra-consistent seam, smooth and tight.

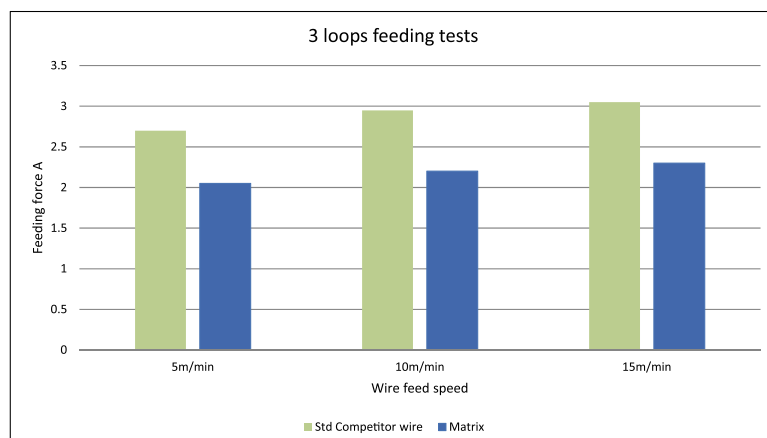
Revolutionary feeding capability. We have created the best feeding wire in the industry.

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

Wire feeding tests have been performed with a 4.5 m long welding gun and 3 loops. The feeding resistance has been determined by measuring the current needed for maintaining the wire feed speed constant. The lower the current, the better the feedability.



Wire feeding test 4.5 m gun with three loops



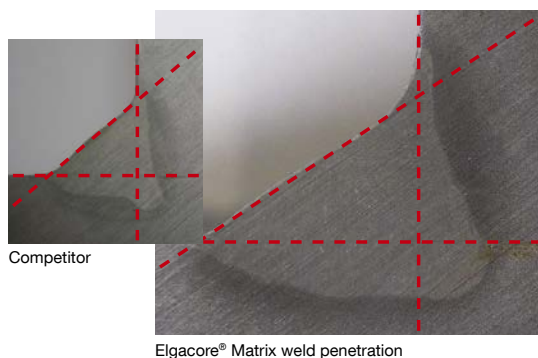
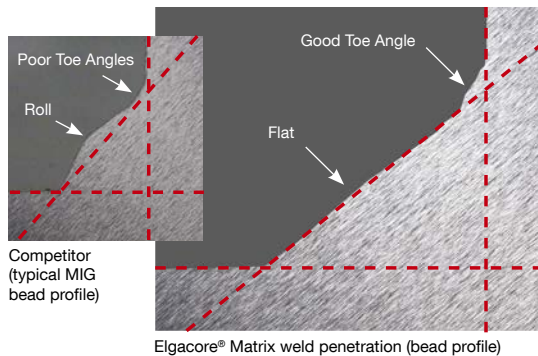
Bead shape – over millscale

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, 29.5 V, 50 cm/min travel 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.

Increased productivity

In 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 M21 3 H5
AWS E 70C-6M H4

Elgacore® Matrix is a revolutionary new metal-cored welding wire manufactured in our factory in Germany designed to provide maximum performance in both semi-automatic and automation/robot applications. The wire is manufactured with the most advanced technology in the industry to achieve unparalleled consistency. Elgacore® Matrix provides industry leading arc starting, as well as unrivaled feedability, good impact toughness at -40°C, superior metal-wetting ability, reduced silicon islands and an extremely stable arc. The wire is suitable for welding with M21 type shielding gas.

Applications

- Heavy equipment (earth moving, mining, agriculture, etc.)
- Infrastructure (bridge, building, etc.)
- Transportation
- General fabrication



UNRIVALED PERFORMANCE,
UNCOMPROMISED CONSISTENCY.



BEYOND STANDARDS

Elga® develops and manufactures reliable consumables for welding applications that deliver exceptional performance, even in some of the world's most rugged and extreme environments. We keep YOU working, with welding consumables that meet the high demands of your work and workplace.

Elga® products support all welding processes with all kinds of base materials, from standard Carbon Manganese steels to exclusive Nickel alloys. In addition to standard welding consumables, Elga® also creates custom solutions to meet specific customer needs.

Welcome to our world!

ALTLEININGEN GERMANY

European center of excellence for cored wires

Elgacore® Matrix is produced at highest standards, gaining from the longstanding experience and wide knowledge of our German team. As part of the global ITW group, we have the expertise and resources to continuously improve welding quality as well as productivity.



 ElgaWelding

 Elga-Welding

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