

SuperMIG[®]



Pioneering a new era of precision and productivity

Presenting Welding 5.0:

Fusing Metal With Ingenuity

Industry-first AI powered welding technology



Fusing human expertise with automation, real-time welding data and AI, enabling Data driven decisions in order to perfect the welding process.

Welcome to Welding 5.0

**Built for Smarter
and Faster Welding**

At Weldobot, we're leading the transformation of industrial welding.

SuperMIG® is our breakthrough solution, engineered to power the next era of human-machine collaboration, where skilled welders and advanced automation (Robot/Cobot) work together to deliver extraordinary results.

This patented hybrid technology fuses **Plasma Arc** and **GMAW** into a single, high-performance system.

SuperMIG® integrates two key components - a proprietary innovative hybrid welding torch managed by our Welding Control Module (SuperMIG® WCM). This patented hybrid platform merges Plasma Arc Welding (PAW) with Gas Metal Arc Welding (GMAW), delivering deeper penetration, faster travel speeds, and a significantly reduced Heat-Affected Zone (HAZ).

It's more than a productivity tool. It's a strategic leap forward in achieving consistent quality, speed, and control in demanding industrial environments.

***This is Welding 5.0 where **innovation meets mastery**,
and every weld pushes the boundaries of excellence.***

Built for Industry Leaders

Our technology empowers industry leaders to achieve new levels of productivity and precision in their most critical applications.

- **Earthmoving Equipment** – Bulldozers, diggers, dumpers
- **Cranes & Steel Structures** – Telescopic booms, beams, towers
- **Shipyards** – Hulls, decks, structural frames
- **Boilers & Pressure Vessels** – Circumferential & longitudinal welds
- **Defense** – Armored vehicle welding
- **Infrastructure** – Bridges, offshore platforms, high-rises

***When consistency, strength,
and safety matter most, **SuperMIG®** delivers.***



TECHNICAL HIGHLIGHTS:



One-side welds
one pass up to 15mm –
no edge prep needed



Travel speeds
up to 1.2 m/min



Full penetration high
deposition with fewer
passes one pass



Low heat input =
minimal distortion



Clean, uniform
seams with
no spatter



Works on carbon,
stainless, and
armored steels

SuperMIG® is a strategic upgrade for your welding line

Transforming Your Bottom Line: SuperMIG® vs. Alternatives

Unlike other welding methods, Weldobot's SuperMIG® technology is about transformational economics. With one pass, one side, full penetration, less prep, and faster throughput you gain substantial ROI while maintaining uncompromised quality.

Cost Comparison Overview

The following cost savings are based on real-world welding tests comparing four leading technologies: Submerged Arc, Plasma, standard MIG, and our breakthrough SuperMIG® technology. The results highlight the performance and efficiency advantages that set SuperMIG® apart.

A sample demonstration (Butt Welding Carbon Steel, 10mm thickness, 1,000 parts)

Metric	Submerged Arc	Plasma	MIG	SuperMIG®
Total Cost per Part	42.45 €	97.60 €	40.44 €	10.00 €
Total Cost (1,000 parts)	42,444 €	97,600 €	40,444 €	10,000 €
Cost Saving by SuperMIG®	+32,444 €	+87,600 €	+30,444 €	—

**SuperMIG® cuts welding costs by more than 60% while
increasing throughput and repeatability**

KEY ECONOMIC ADVANTAGES

3–15 mm

One Pass One Side
Welding

< 1 Year

Fast ROI

> 60%

Cost Saving

< 30%

Heat Input

< 50%

Overall Welding
Time

Integration

SuperMIG® integration as part of an end-to-end solution is vendor agnostic, designed and built to support and easily integrate with all leading welding equipment vendors. Customers enjoy their past investment protection while leveraging SuperMIG® advantages through easy integration with their current equipment.

GLOBAL PARTNERSHIP NETWORK

Experience Welding 5.0 with SuperMIG® technology.

Contact our regional partners for tailored solutions and support.

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SuperMIG® Product Page

