

News release

Fronius Welding

Technological innovation: guided welding for perfect results

Fronius presents the Velocity Assistant for manual MIG/MAG welding

With the new Velocity Assistant, or Velo for short, Fronius is taking manual MIG/MAG welding to a whole new level. The innovative system was presented to the public for the first time at SCHWEISSEN & SCHNEIDEN in Essen and at FABTECH in Chicago and caused quite a stir among all those who often weld long, precise seams. Velo impresses welding specialists with its assisted torch guidance and constant welding speed—for perfect, reproducible seams with reduced physical strain.

Long welds pose challenges even for experienced welders: consistent speed and precise torch guidance are crucial for the quality of the seam—but at the same time difficult and above all strenuous to maintain over longer distances.

This is precisely where Velo comes into its own, as the Velocity Assistant makes it possible for the first time to control the welding speed during manual welding. As a result, it supports a wide range of applications, especially where long, even welds are required—for example, in the areas of commercial transportation, heavy-duty machinery, steel construction, or apparatus engineering. Velo is suitable for thin-sheet applications as well as for thick-sheet welding in steel, CrNi, or high-strength steel.

A quantum leap in manual welding

At the heart of Velo is a second wire—the so-called Velo wire, which works without an arc and without an additional gas feed. This wire touches the workpiece in its solid state and generates a forward movement through friction. The travel speed of the Velo wire determines the welding speed.

The Velo wire keeps the distance between the workpiece and the contact tip constant and “pushes” the torch along the seam edge, notch, or chamfer without any special seam preparation. In all of this, the Velo wire only adds minimal additional material to the seam: the wire consumption corresponds exactly to the seam length.

“If you allow yourself to relinquish some control, you can now produce perfect welds in manual welding at unprecedented speed by simply holding the torch,” explains Franziska Eichhorn, Strategic Product Manager at Fronius International. *“Test users confirm noticeably less strain and a significant increase in precision and welding quality.”*



Whether beginner or professional—Velo supports them all

Velo is a real game changer: while beginners quickly achieve high-quality welds thanks to the supportive guidance, professionals benefit from the relief provided for long or complex welding tasks. Cramping and fatigue are a thing of the past and the seam quality remains consistently high.

A special highlight: under certain conditions, Velo can achieve welding speeds comparable to those of robotic welding. This increases productivity considerably.

Simply upgrade—get started immediately

Velo is compatible with existing TPS/i devices from 320 A and iWave Multiprocess PRO systems and can be easily retrofitted. All you need is:

- the wirefeeder for the Velo wire
- a suitable torch adapter with Velo wire feeding system
- the corresponding software activation

Integration into existing systems is quick and uncomplicated—without the need for complex conversions.

Focus on ergonomics and flexibility

The Velo holder can be rotated 360° without tools and locks securely into place. If accessibility is restricted, the Velo system components can be simply unclipped from the holder and set to one side. Thanks to its flexibility, the system is suitable for all positions—even for pipe welds with 360° seams or multi-layer applications.

A large operating range is ensured through the five-meter-long Velo wire feeding system. The system is activated directly on the welding torch, meaning that it can be deactivated at any time if required in order to switch flexibly between manual and assisted guidance.

Availability and distribution

The system has been available worldwide since fall 2025 and has a patent pending.

For further information visit www.fronius.com/velo-en

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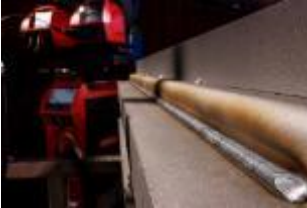
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<https://www.fronius.com/en/welding-technology/info-centre/press>.

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Images



The Velo wire “pushes” the torch along the weld and ensures a constant welding speed and a constant distance between the contact tip and the workpiece. This ensures quality and relieves the welding specialist.



Welding perfect, long, and even MIG/MAG seams by hand in one go—with Velo, the Velocity Assistant from Fronius, it’s not rocket science.



Handling is extremely simple: the Velo wire takes over the guidance and supports the specialist.



Simply retrofit and off you go: TPS/i devices from 320 A and iWave Multiprocess PRO systems only require the wirefeeder for the Velo wire, the appropriate torch adaptor with Velo wire feeding system, and the corresponding software activation.

We are Fronius.

Around 6,700 employees worldwide at the end of 2024, a current export share of 90 percent, and 1,752 active patents: that’s us, that’s Fronius. Founded in 1945 as a regional one-man operation, we are now a global industrial company—a fact that is impressively demonstrated by our 37 international subsidiaries and our network of sales partners in more than 60 countries. And yet, at heart, we are still a family-owned company from Austria working in the electrical and electronics industry. Fronius Welding continues to revolutionize welding technology, while Fronius Solar & Energy focuses on making the best possible use of solar energy and optimizing battery charging systems for intralogistics. For 80 years, we have kept our sights set on the same clear goal: Researching electricity and making efficient use of this fuel of the future. We develop products and solutions for a future worth living in, offering our customers an all-in-one package extending from advance planning and consulting to ongoing monitoring and a repair service tailored to their specific needs. We are innovative. We are curious. We are Fronius.

Fronius Welding.

Maximum arc quality, a deep understanding of our customers, a thirst for technical progress: We are the innovation leader for arc welding and the global market leader for robot-assisted welding. Our customized, automated complete systems and digital welding solutions for Industry 5.0 are the product of our expertise. Intuitive welding systems for manual welding applications, high-quality welding accessories, and effective protective products to keep users



safe round off our portfolio. As a global company, we offer regional service through local teams who are on hand for our customers around the world. Our technologies break new ground and form connections – between metals, industries, and people.

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