

/ Perfect Welding / Solar Energy / Perfect Charging



ARCTIG

Fast, Simple, Profitable

STAINLESS STEEL PIPE 10 MM. SINGLE-PASS WELD. NO JOINT PREPARATION.

Whether it's for the construction of pipes or containers, or for use in air and space travel technology, the new TIG Welding Process ArcTig offers the optimal solution for all those who have the very highest quality standards for their weld seam, while also seeking a simple and, above all, cost-effective solution. With mechanized and robot-assisted applications, materials up to 10 mm can be single-pass welded without processing.

What's your
welding challenge?

Let's get connected.



THE ADVANTAGES OF ARCTIG

REDUCED PREPARATION AND REWORKING

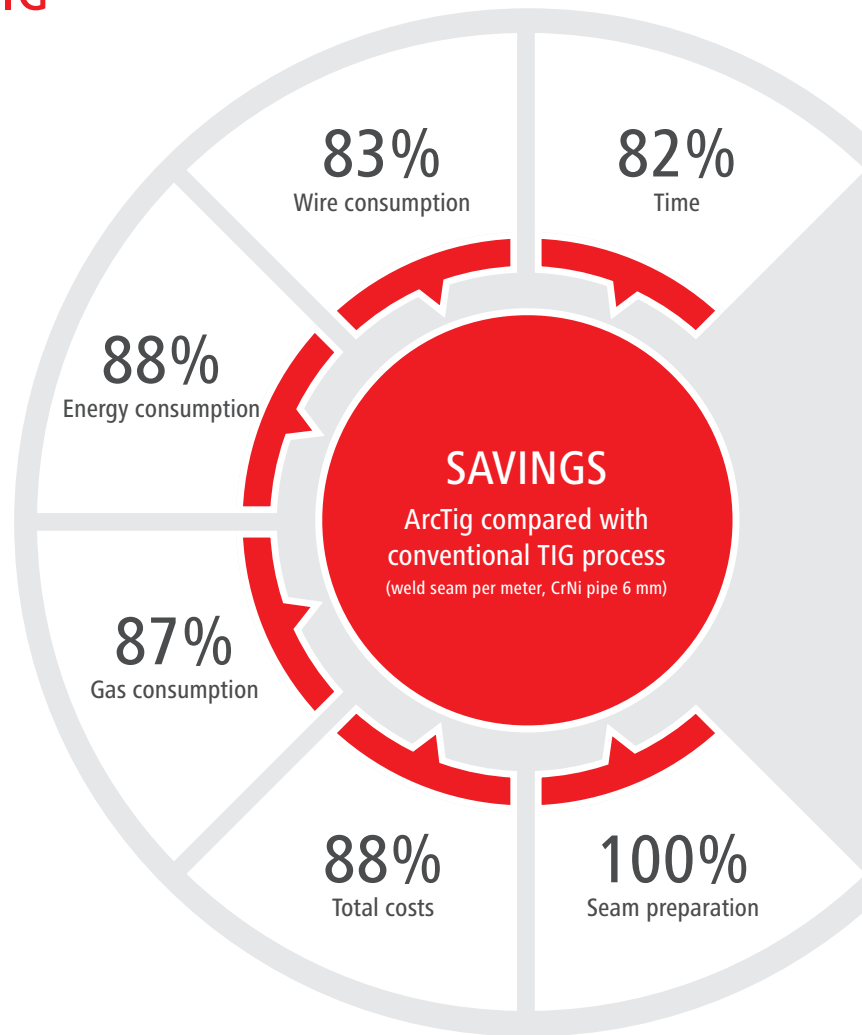
- / Minimal to no processing up to a material thickness of 10 mm
- / Savings on gas, filler metal and electricity
- / Low welding reinforcement and low distortion
- / Spatter-free

INCREASED WELDING SPEED

- / Up to 100% increase in welding speed compared to the conventional TIG process

EASY HANDLING

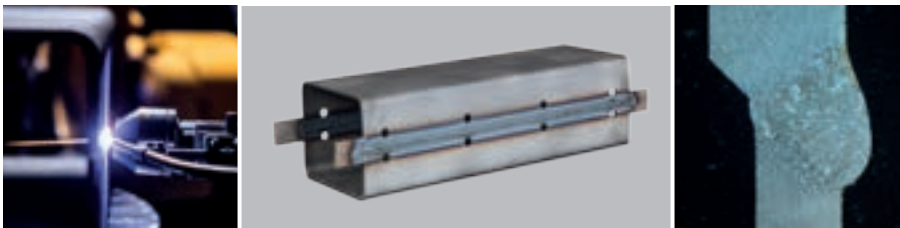
- / Easy setting and selection of welding parameters
- / Easy replacement and regrinding of the electrodes
- / Electrode clamping system for adjusting the free end of the electrode
- / Flexibility regarding the welding position



APPLICATIONS

LONGITUDINAL SEAM

Steel girders, profiles pipes, beams, housings



MATERIALS

CrNi	NiBas
Steel	Titanium
(Super) duplex	

CIRCUMFERENTIAL WELD

Hydraulic cylinders, pipes, containers



MATERIAL THICKNESS

CrNi: 3–10 mm (single-pass)
Steel: 3–8 mm (single-pass)

POSITIONS

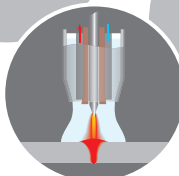
PA	PC
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SYSTEM STRUCTURE AND FUNCTION

The system can be equipped with a cold wire feed unit depending on the application.

The heavily cooled electrode produces a focused arc with high arc pressure.

Depending on the application and work-piece accessibility, there are two torch variants available. TTW 7200 R ArcTig TTW 3600 R ArcTig



Standard power sources MagicWave and TransTig from power classes 4000 and 5000 can be used as a basis for the system. This means upgrades to existing systems are also possible.

Optional: up to 900 A

A special high-performance cooling unit is used to cool the welding torch, guaranteeing 100-percent reproducible welding results.



CUSTOMER EXAMPLE: TEKNOKROM

Container construction specialist Teknokrom—based in Izmir, Turkey—produces chrome-nickel tanks for the food industry. Using ArcTig, Teknokrom is able to triple the welding speed per layer. Furthermore, the new process means an ideal result can be achieved with just one layer, whereas four would have been required using classic TIG welding.



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THREE BUSINESS UNITS, ONE GOAL: TO SET THE STANDARD THROUGH TECHNOLOGICAL ADVANCEMENT.

What began in 1945 as a one-man operation now sets technological standards in the fields of welding technology, photovoltaics and battery charging. Today, the company has around 4,550 employees worldwide and 1,241 patents for product development show the innovative spirit within the company. Sustainable development means for us to implement environmentally relevant and social aspects equally with economic factors. Our goal has remained constant throughout: to be the innovation leader.

Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com

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