



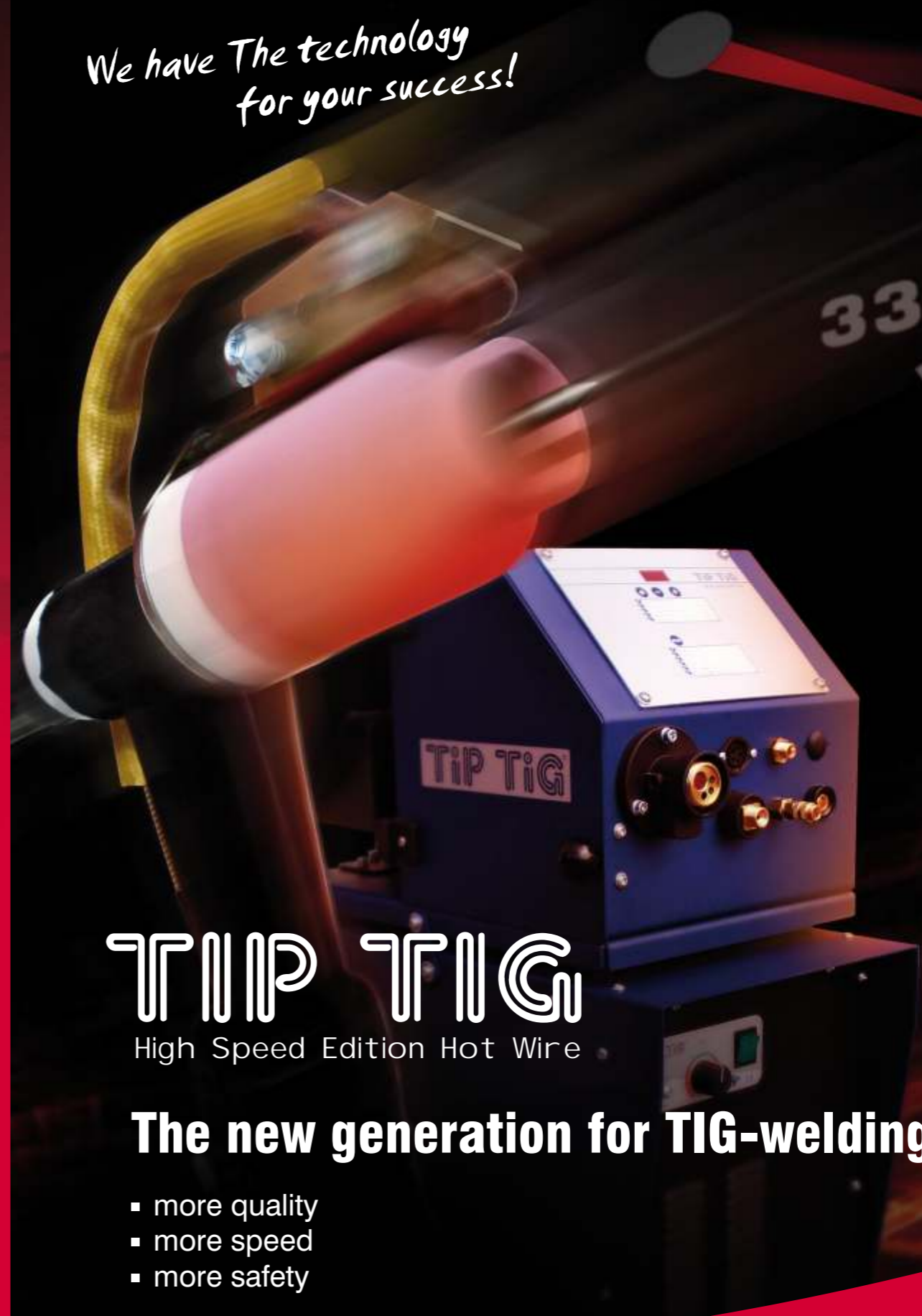
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# TIP TiG

High Speed Edition Hot Wire

## The new generation for TiG-welding

- more quality
- more speed
- more safety

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TIP TIG QUARANTEES EXCELLENT QUALITY,  
MOST ECONOMICAL TIG WELDING ...  
ANYWHERE IN THE WORLD!

# TIP TIG

High Speed Edition Hot Wire

## The new generation for TIG-welding

### ✓ Productivity

- TIG welding manually deposite rate up to 2 kg/h in position, welding speed manual up to 80 cm/min.

### ✓ Costs Reduction

- up to 150 % to TIG welding

### ✓ Quality

- Highest quality-excellent metallurgical and mechanical results for all materials

### ✓ Flexibility

- Torches for all applications! Compatible with all TIG machines!

### ✓ Automation + Robot

- Excellent results in automatic and robot applications with low capital expenditure!

### ✓ Tried + Tested

- Hundrets TIP TIG units are currently in production in European companies since 2000!

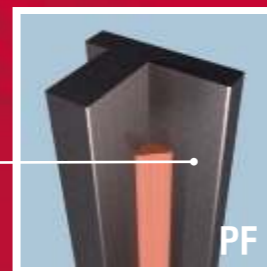
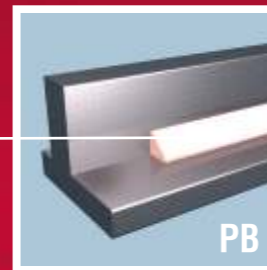
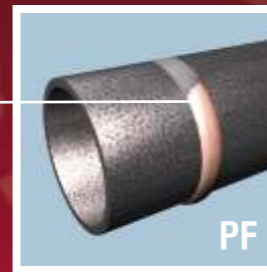
### ✓ Weldable materials

- Mild steel, stainless steel, other high-alloyed steels, aluminium and aluminium alloys, other light and non-ferrous matals, titanium, zinc-plated material, coated materials, duplex, hasteloy, inconel



### ✓ welding position PF

s=20 mm  
2kg/h



### ✓ TIP TIG in all positions

1.4571 s=3 mm  
v=50 - 70 cm/min

### ✓ Description

- The steady forward motion of the welding wire feed is superimposed by a secondary linear forward/backward motion of the wire feeder unit. The superposition of both movements provides kinematic energy into the weld puddle. The dynamic effects produce a very stable and controllable welding process. The wire feed speed as well as the oscillating movement are continuously adjustable and can be independently controlled.
- The wire is preheated by a current being produced by a supplementary power source. The TIP TIG Dynamic Hotwire Process increases the calorific value of the fusion band by passing a current through the wire circuit. In permanent contact with the fusion band produced by the TIG arc, the wire becomes preheated via the Joules effect. As a consequence, at its entry into the welding pool the filler wire requires a lower arc energy. We observe an important increase of the quantity of deposited metal characteristics. The main advantages of the TIP TIG Dynamic Hotwire Process compared to those using a fusible electrode lies in the fact that TIG welding allows a managed separation of the quantity of arc energy and of the quantity of filler material introduced into the welding pool. This is an advantage because it allows total control of the starting and finishing (down-slope) phases of the welding cycle as well as the possibility to carry out repair procedures.

### ✓ Processes

- TIG (GTAW) DC or TIG (GTAW) AC only CW

### ✓ Applications

- industrial to heavy industrial  
food-, meat-, chemical-industries; refinery-, pipeline- and offshore industry; tank and vessel fabrication; tubes and pipes; precision metal fabrication; shipyards; defence technology; aerospace; automotive industry; bicycle manufacturing; automation technology

### ✓ High Light's

- Joint welding with highest quality off all materials also for instance too materials with high gradient to hot cracks
- Easy welding from tubes, pipes with thin or large thickness in all positions with one parameter
- Double TIG welding for all materials
- Cladding for instance with Inconel 625, Stellite
- Brazing for plated and coated materials with filler material like CuSi3

### ✓ Welders safety

- Considerably less noise impact than MIG Pulse
- No spatter, subsequently, no grinding needed
- Minimal fume development-limited contamination of air and environment
- Minimal physical and mental exertion of operator - better ergonomics
- Minimized physical stress also in more difficult weld postions