The Evolution of TIG Welding!

Automated System
KD/HD Technologie

Process description

The TiPTiG wire feeder system provides a linear, steady forward movement of the wire electrode. Simultaneously, this movement is superimposed by a second forward / backward motion.

The result is a kinematic energy, providing a dynamic and process-stable weld puddle. A second power source provides an resistance-preheated wire electrode, while touching the weld puddle.

Content

TiPTiG Automation Heavy Duty System, Height = 2200 mm complete with:

- TiPTiG BECKHOFF PLC with 12” Touch Panel include programs: Pipe to Pipe welding, pipe cladding inside and outside, longitudinal seam welding, board cladding, norwegian speak, functions: AVC, AEA, OSC, single layer
- TiPTiG PLC Case mounted on the separate wire feeder car with connection sockets
- TiPTiG Aluminium profil construction, profil size 80 x 80 mm LxBxH 2150 x 1000 x 2200 mm, mounted at heavy duty wheels
- TiPTiG Heavy duty linear guide line with ballscrews, X-Y-Z axis planetgear motor 20 Nm
- TiPTiG High precisions slide with ballscrews, stroke: 200 mm OSC-Oscillation movement, stepper motor 2 Nm
- TiPTiG AUT Torch holder complete with Micro Nozzle Adjustment X-Y-Z Axis
- TiPTiG Interconnecting cable TiG 500iDC/160HW, 3,0 m connection TiG500iDC/160HW to TiPTiG feeder
- TiPTiG TIG 500iDC/160HW, version automation
- TiPTiG Automation hot wire feeder New System
- TiPTiG AUT Version ”H-I” remote control box, 5,0 m cable
- TiPTiG HW Automation Torch AUT 410S ”B”, 4,25 m cable
- TiPTiG Spare part box large AUT 410-S-”B” Jumbo gas lens
- TiPTiG U-Rolls Ø 1,2/1,6 mm, 4 pieces
- TiPTiG Earth cable 70 mm², 4,0 m
- TiPTiG Encoder cable, 15,0 m
- TiPTiG Encoder

www.tiptig-international.com
Application range

TIG AC for Cold Wire applications:
- joint welding pipe to pipe; pipe to flange

TIG DC for Hot Wire application:
- joint welding pipe to pipe; pipe to flange

Materials for Hot Wire applications

Low-, medium- and high alloyed steel, Duplex, Superduplex, Copper and Titanium, Stellite, highly heat resistant and galvanized materials.

Application advantages

- HDTM technology
- Universal automation for all butt weld applications
- Compact size
- Easy-to-use control unit for all parameters
- Active interference while welding with remote control
- Welding parameter memory
- AVC, AEA, OSC control
- Welding with combined parameters
- Easy processing of all materials
- Deposition rate up to 5.5kg/h
- Lowest energy per unit
- Environmentally friendly, no patter, low emission, no arc noise
- Narrow gap welding technologies possible
- Smaller aperture angles, less weld preparation time= less welding time

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