In Comparison to Regular TIG

• TIP TIG’s wire feed and amperage is constant and stable, allowing for the greatest control of the weld process.
• Improved weld uniformity and repeatability
• Weld wire is consistently directed to the “sweet spot” of the arc in any position.
• Reduced skill level required for all position, all alloy welding.

The Total Benefits from TIP TIG

• Highest deposition rates for any TIG process available on the market
• No slag, No Inter pass cleaning = increased Arc on time and weld quality
• Weld fumes and appeal: Lowest possible weld fumes on all alloys with no spatter or grinding
• Lowest possible heat input of any weld process resulting in lowest HAZ and significantly reduced distortion
• Increased corrosion property retention on all corrosion resistant alloys
• Highest quality with the best Metallurgical and Mechanical properties on all alloys
• Simple to learn, Simple to Use, Simple to Teach

Values of Heat Input with TIP TIG

Joules Heat Input Formula
(Voltage x Amperage x 60 / Travel Speed IPM)

Conventional TIG Heat Input
13 x 200 x 60 / 8 = 19.500 Kj

Typical MIG Heat Input
25 x 250 x 60 / 16 = 23.437 Kj

Typical TIP TIG Heat Input
13 x 250 x 60 / 16 = 12.1875 Kj

Simply Ingenious … Ingeniously Simple!

For more information visit our website www.tiptigusa.com or call us at 856-312-8166
Distribution regions: North America, South America, Australia

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What is the TIP TIG process?
The TIP TIG process is a globally patented TIG process that combines our patented wire feed technology which creates a vibratory effect on the wire in addition to applying a hotwire current to the filler metal prior to entering the weld puddle.
- The vibratory effect is created by a linear forward/backward mechanical motion created by the custom wire feeder system
- The Hotwire current is created by a secondary power source within the TIP TIG unit.

How is the TIP TIG Process Operated?
The TIP TIG process is operated by using a standard solid MIG wire, a conventional TIG power supply with a minimum of 350 amps with HF start and trigger hold.
- The TIP TIG process can be operated in all welding positions both manually or combined with our automated equipment such as the TIP TIG Orbital and TIP TIG Tractor & Automated Work station are voltage controlled with AVC Control.

TIP TIG ExtremeCase Feeder
The On Site and Confined Space TIP TIG Solution

TIP TIG Automated Work Cell
- Welding
  - AVC Control
  - Beckhoff PLC
  - Programmable Interface
  - Cross-seam Steering
  - Torch Oscillation
- Cladding
  - Lowest Dilution
  - 1st layer < 5% Fe
  - 2nd layer 1% Fe at .125"
  - Layer Thickness
  - 25 - 30 IPM Travel Rate
  - 5 - 6 Lb Per Hr

Runs on 32 Volts
- Ultra Portable, 46x32x22 cm
- Uses Standard 10 lb. Spools
- Plug and Play Connections
- Works with all TIP TIG Hot Wire Torches
- Remote Control
- Delivers the same TIP TIG Weld Quality and Speed