## The Total Benefits from TIP 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.


## Values of Heat Input with TIP TIG

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

Conventional TIG Heat Input
$13 \times 200 \times 60 / 8=19.500 \mathrm{Kj}$

Typical MIG Heat Input $25 \times 25060 / 16=23.437 \mathrm{Kj}$

## Typical TIP TIG Heat Input

$13 \times 25060 / 16=12.1875 \mathrm{Kj}$

- 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

For more information visit our website www.tiptigusa.com or call us at 856-312-8166

Distribution regions: North America, South America, Australia

## Simply Ingenious

Ingeniously Simple!


155 East 9th Ave., Suite A, Runnemede, NJ 08078 www.TIPTIGUSA.COM

Manuel Shop System


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.


Parrable Suftease



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

Runs on 32 Volts Ultra Portable, $46 \times 32 \times 22 \mathrm{~cm}$ 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

Tipnic obizi Solutions


TIP TIG Orbital Tractor is a rugged, light weight precision TIG weld head for use with the TIP TIG HotWire Welding Process, suitable for all pipe sizes from $4^{\prime \prime}(100 \mathrm{~mm})$ pipe up to an unlimited size, including flat plate.

It is primarily designed for field use in the nuclear, shipbuilding, petrochemical and construction industries where exceptional weld quality, high welding speeds and high deposition rates are a strict requirement.


