

TBI Graphite contact tip

For welding and brazing

For difficult to process wires

Used in TBI Carbon welding torches

Facilitates "cold" welding processes

Applications

- **Aluminium and magnesium welding**
 - excellent ignition properties
 - welding capacity up to 220 A
 - extremely long life of the contact tip (e.g. for reliable automated welding)
 - no burn-back of the wire to the contact tip
- **MIG-brazing**
 - excellent processing of CuSi-, Al-, Zn- and Mg-wires
 - prevents fusion of the wire (filler metal) with the contact tip
 - low friction of the wire in the contact tip
 - no burn-back of the wire to the contact tip



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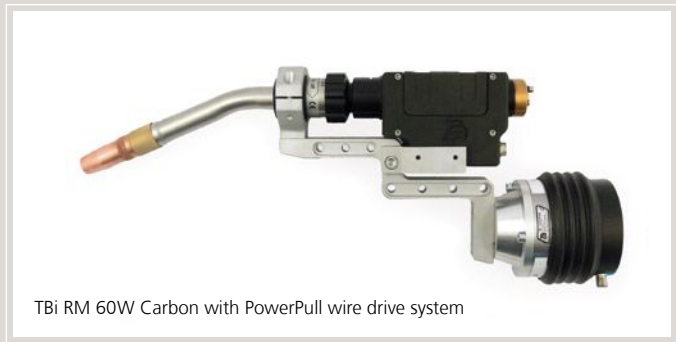
TBI 7W Carbon



The Graphite contact tip

The graphite contact tip may be used with the specially designed TBi Carbon welding torches. These torches are available for use in manual, automatic and robotic welding applications. In all three cases, process reliability and productivity is increased:

- prevention of wire burn-back to the contact tip
- reduction of wire feeding problems through decreased friction in the contact tip
- excellent and stable ignition properties
- very long life of the graphite contact tip compared to standard Cu or CuCrZr contact tips (when using soft wires)



Application examples

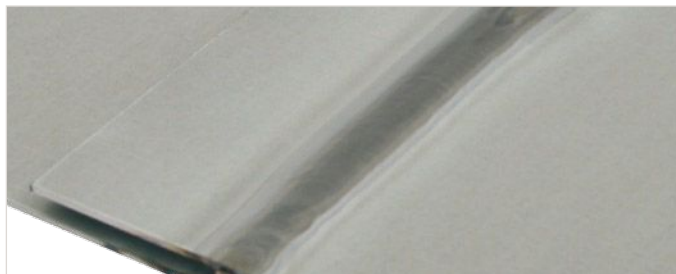
Fusion of mixed materials



left: Magnesium / steel, MIG-brazed with magnesium wire

top: Strength-test specimen of mixed materials, aluminium / steel, MIG-brazed with aluminium wire

MIG-brazing with gap-closure



left: Gap closure of up to 4 mm in a controlled and stable brazing process

top: Damage to the zinc coating is avoided by the relatively low temperatures of the brazing process.