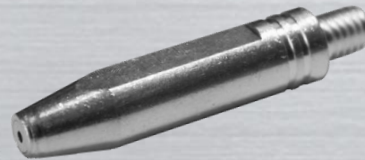


TopTip™

Contact Tip



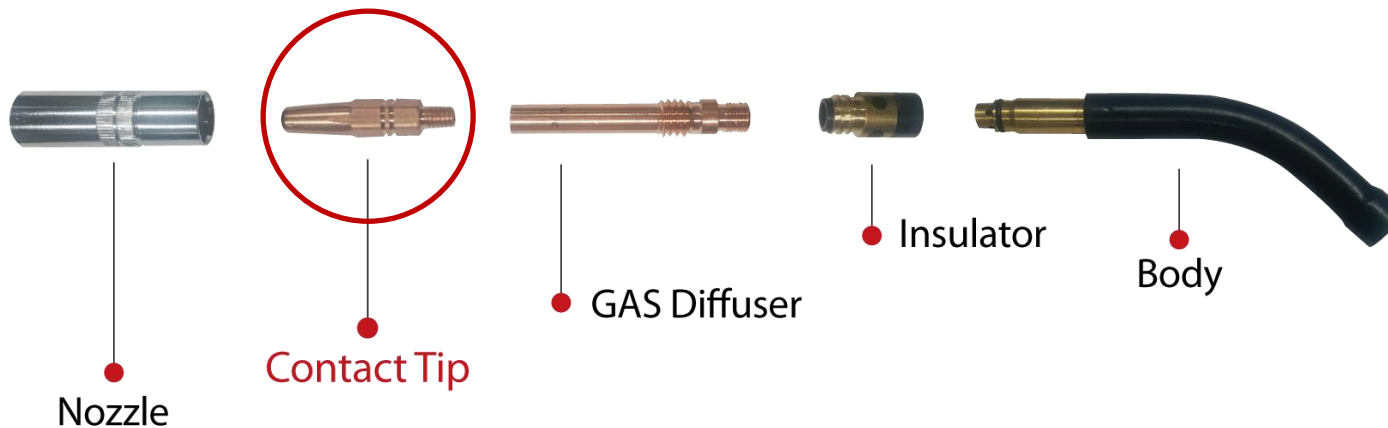
Why is the welding tip only so short in life in your factory ?
(We understand you're a great technician)

What if there is one welding tip for about 2 months ?

TopTip

TopTip is the brand name that pursues the best welding products.

TopTip has developed the contact tip (2 months) of the torch component.



Long Life Cycle

Application : GMAW (CO₂, MAG, MIG)

Material : Cu alloy + Hard alloy + Silver coating

【 Cu alloy + Hard alloy + Silver coating / 2 months 】

Configuration of Contact Tip :



Effects

1. **Improved productivity** due to reduced downtime (Replacement and Teaching)
 - ▶ For example, 5 minute tip swap saves 145 minutes a month.
 $150 \text{ min.}(30\text{days}) - 5 \text{ min.}(\text{one time}) = 145 \text{ min.}$
2. **Decrease of product defect rate**
 - ▶ Significant reduction of product defect rate due to tip
3. **Reduction in manufacturing costs** (noticeable on-site response)
 - ▶ Reduced costs due to high efficiency of welding field management

Finally, cost savings

Technical Effects



1. The end of the tip is **hardly heated** by Hard alloy.
 - ▶ Less spatters and thus less birdnest on the tip (**Less Birdnest**)
 - ▶ Removal of spatter is easier than copper part.
2. The end of tip is **hard to wear** due to Hard alloy.
 - ▶ Wear life is prolonged and stable supply of wire improves weld quality.
3. Improvement of electrical conductivity & Thermal barrier effect by silver coating.
 - ▶ Less burnback that electrode wire sticks to tip (**Less Burnback**)

**Finally, significant reduction of product defect rate
due to long life cycle of tip**

Satisfaction

Long Life Cycle > Low Defect Rate > High Productivity



* Steel plate (14t, 490A) welding.

The product is delivered to HYUNDAI and KIA Motors.

Myth of customer satisfaction



Made in KOREA

LONG
LIFE
CYCLE

 **TopTip**™

Cu alloy + Hard alloy + Silver coating

TopTipTM **Contact Tip**



【 Cu alloy + Hard alloy + Silver coating / 2 months 】



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