

TUNGSTEN GRINDERS

For professional TIG welding



INTRODUCTION

With a solid position amongst the world's leading manufacturers of welding equipment, our products are renowned for their unique

- Quality
- Profitability
- Safety

... contributing to our customers' businesses in all three areas.



ABOUT OUR COMPANY

We were originally part of Inelco A/S, but in a bid to sharpen focus on tungsten electrode grinders, Inelco Grinders A/S was founded on January 1st 2010.

We focus on the development, manufacture and sale of tungsten electrode grinders that are primarily used for TIG welding.

Our aim is to boost our leading position on new and existing markets with tungsten electrode grinders and to develop our business area within this sector.

” We strive to always have the safest and most efficient grinders on the market. ”

Anders Thy, CEO and owner

SALES WORLDWIDE

We have many years' experience of both dry and wet grinding of tungsten electrodes, and today we enjoy a solid position on the market with distributors in more than 50 countries all over the world.

We collaborate with some of the biggest manufacturers of welding equipment and our technology is implanted by some of the most notable names of various industry branches.

Amongst them:

AirBus Defense Industrie (France)

Audi (Germany)

Bosch (Turkey)

GKN Aerospace (Sweden)

Sauber F1 Team (Switzerland)

Williams F1 Team (UK)

Rolex (Switzerland)

Chicago Bridge and Iron (CB&I) Contracting (USA)

Grandweld Shipyards (UAE)

TYCO Electronics (Portugal)

Marel (Iceland)

TAP Transportès Aéreos (Portugal)

Senior India (India)

Phillips Medical (Germany)

Lufhansa Maintenance (Germany)

Air France (France)

GE Energy (France)

Senior Aerospace (France)

#HEALTHYWELDERS



OUR VISION

With our products, we aim to help our customers set optimal **health and safety** working conditions with a technology that improves welding **quality & efficiency** and creates considerable **profit and savings** on tungsten electrodes.

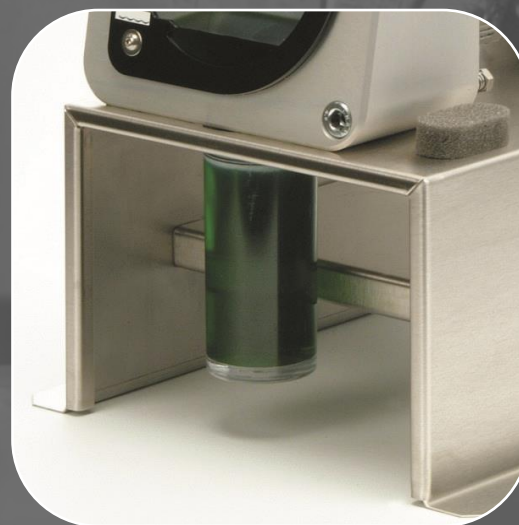
We optimize health, profit & quality in TIG welding

(Click below to view the video)





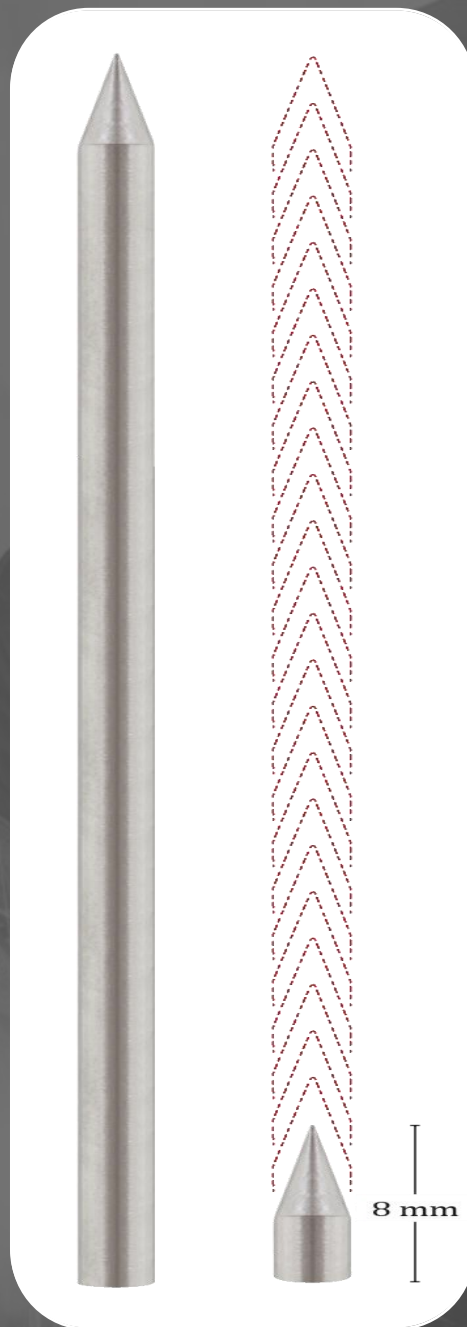
#healthywelder



We take health seriously!

Welders should never be exposed to tungsten dust inhalation, projection of metal particles and risks of injuries in their work environment.

That is why our grinding and cutting process take place in a sealed chamber, preventing any contact with the disc, and 100% of the dust is captured in a liquid container.



Reduce your usage of tungsten electrodes by 50%

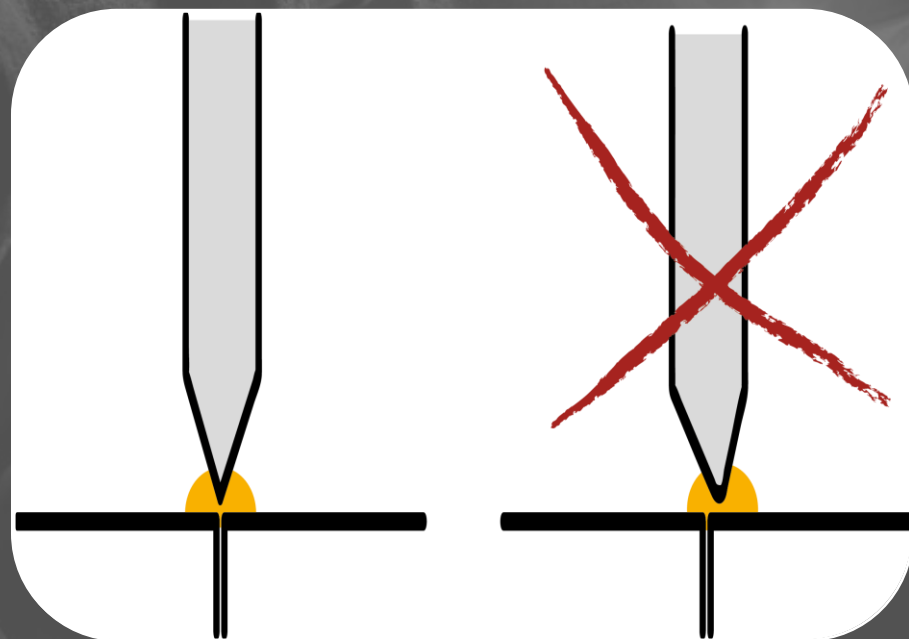
A lot of money spent on tungsten electrodes is wasted during the grinding process for multiple reasons:

1. Tungsten electrodes get thrown out when they get too short. Our grinders grind down to 8 mm.
2. Manual grinding often lacks precision and therefore requires multiple attempts. Our electrode holder ensures precise grinding in the right angle with minimal waste.
3. Our grinders can grind contaminated electrodes and thereby avoid breaking off the tip after a dip.



Precision is the KEY to improving TIG welding quality

Our grinders possess a variety of precise settings, electrode holders to guarantee the perfect centering of the electrode and a unique liquid that contributes to a smooth surface on the electrode as well as maintaining a cool temperature during the process.



#qualitytools

OUR GRINDERS

PORTABLE



STATIONARY



AUTOMATIC





PORTABLE GRINDER

- Sealed grinding chamber and filter to protect the user.
- Variable angle setting for more flexibility
- Electrode holder to ensure centering of the electrode
- Powerful motor with speed adjustment
- Three positions of the diamond disc for optimal utilisation.

NEUTRIX

Electrode size: $\varnothing 0.8 - 4$ mm

Min. length: 19 mm standard

(15 mm with special electrode clamps)

Angles: $15^\circ - 180^\circ$ tip angle ($7.5^\circ - 90^\circ$ grinding angle)



STATIONARY LIQUID GRINDERS

Ultima-TIG's unique construction reduces the waste of expensive tungsten electrodes and reduces the time spent on grinding, resulting in a short payback time. The variable angle adjustment and unique clamping system centers the electrode, so that the grinding is carried out in the correct longitudinal direction of the electrode.

- Unique liquid to keep the electrode cool during grinding and to preserve the electrode's properties and create a smooth and even surface of the electrode.
- Grind electrodes as short as 8mm and save an important amount of tungsten electrodes.
- Adjustable and precise angle setting to obtain the results you need every time.
- 100% of the tungsten dust is captured in a disposable liquid container to ensure optimal health and safety for the user.
- Service indicator on the grinder for preventive maintenance.

ULTIMA-TIG SERIES



ULTIMA-TIG

Electrode size: $\varnothing 0.8 - 4$ mm

Min. length: 15 mm standard (8 mm with special clamps)

Angles: $7.5^\circ - 90^\circ$ grinding angle (equal to $15^\circ - 180^\circ$ tip angle)

ULTIMA-TIG-S

Electrode size: $\varnothing 0.8 - 8$ mm

Min. length: 15 mm standard

Angles: $7.5^\circ - 90^\circ$ grinding angle (equal to $15^\circ - 180^\circ$ tip angle)

ULTIMA-TIG-CUT

Electrode size: $\varnothing 0.8 - 4$ mm

Min. length: 15 mm standard (8 mm with special clamps)

Cutting down to 8 mm

Angles: $7.5^\circ - 90^\circ$ grinding angle (equal to $15^\circ - 180^\circ$ tip angle)

AUTOGRIND DIGITAL ADD-ON



AUTOMATIC GRINDING MODULE

- Automatic grinding of the electrode ensures a precise and uniform result
- High rotation speed shortens the grinding time
- The grinder is automatically switched off when the grinding is finished
- Grind 10 electrodes in less than 5 minutes

AUTOGRIND DIGITAL

Electrode size: $\varnothing 0.8 - 4$ mm
Min. length: 15 mm standard (8 mm with special clamps)
Angles: $7.5^\circ - 90^\circ$ grinding angle (equal to $15^\circ - 180^\circ$ tip angle)
Designed for Ultima-TIG & Ultima-TIG-Cut

AUTOGRIND-S DIGITAL

Electrode size: $\varnothing 4.8 - 8$ mm
Min. length: 15 mm standard (8 mm with special clamps)
Angles: $7.5^\circ - 90^\circ$ grinding angle (equal to $15^\circ - 180^\circ$ tip angle)
Designed for Ultima-TIG-S



TRUNCATOR MODULE

Our new truncator is a separate module, designed and engineered for truncating of ground tungsten electrodes for TIG welding. The new truncator module can be mounted on our well-known Ultima-TIG and Ultima-TIG-Cut grinders. Besides we offer a special version for Ultima-TIG-S.

There are mainly 2 reasons to truncate the tip of the freshly ground electrode:

- 1) In high-current applications, the truncated geometry eliminates the risk of blowing off the tip into the weld causing contamination.
- 2) In AC applications, the truncated geometry reduces the risk of obtaining an excessive ball at the tip. Knowing that an excessive ball causes an unstable arc and might fall and contaminate the weld.

- Precise truncating of tungsten electrodes
- Various positions on the grinding disc
- Eliminates the risk of blowing off the tip into the weld causing contamination
- Ideal for AC welding where it reduces the risk of obtaining an excessive ball at the tip

CALCULATOR APP

We designed this tool to allow our distributors to calculate a customer's potential savings in tungsten electrodes by using our stationary grinder ULTIMA-TIG instead of a simple bench or belt grinder.

This is a most useful tool for sales team around the world and it is available in six different languages.

A detailed user's guide is available.

(click to view video)



Enter customer data

WASTE FROM THROWING OUT SHORT ELECTRODES

175	Length of electrodes (mm)	2.4	Electrode diameter Ø (mm)
30	Typical tip angle (°)	1500	Electrodes used/year (pcs)
40	Average length when discarded (mm)		
25	Minimum usable length (mm)		

WASTE RESULTS

60000	TOTAL MM ELECTRODE
343	NUMBER OF ELECTRODES (PCS)

CURRENT WASTE

DISCARDED | "DIP" | HANDGRIND

Clear visuals for fast analysis

CURRENT WASTE VS. WASTE USING ULTIMA-TIG

730 ELECTRODES IN TOTAL (PCS)

CURRENT WASTE

DISCARDED | "DIP" | HANDGRIND

WASTE USING ULTIMA-TIG

DISCARDED | HANDGRIND

3.50 Price per electrode (EUR)

1692,20 TOTAL SAVINGS (EUR)

SEND RESULTS

Send results via e-mail

ELECTRODE SAVINGS WITH ULTIMA-TIG

CLIENT DATA

Date

Name

E-mail

Company

City

Country

Yes, please sign me up for Inelco Grinders' newsletter.

SEND RESULTS BY E-MAIL



WE ARE HERE TO SUPPORT YOU

Our goal is to help our distributors thrive.

We participate in major International tradeshows every year and offer support on our distributors' stand on regional shows.

We provide better knowledge of the impact of the grinding process of the tungsten electrode on the quality of the TIG welding performances with our personalized trainings, on site or at the distributor's location.

We also maintain a digital presence via monthly newsletters and Social Media platforms. We make it our duty to inform welders all over the world about the importance of the grinding process and raise awareness around the appropriate health and safety conditions that should surround that process.



FOLLOW US

ON SOCIAL MEDIA

