

# INTRODUCING THE QUICKEST AND EASIEST WAY TO PREPARE TUNGSTEN ELECTRODES

- Quick & easy setup and operation saves time, eliminates hassles.
- Consistently & properly ground electrodes provide optimum, repeatable welding results.
- Manufactured in America, so expert service and spare parts are available immediately.
- Proper diamond cutting eliminates risk of electrode splintering & weld rejections.

## STEP 1 DIAMOND GROUND FLAT



Produces a diamond ground flat at the tip of the electrode.

## STEP 2 DIAMOND GROUND TAPER

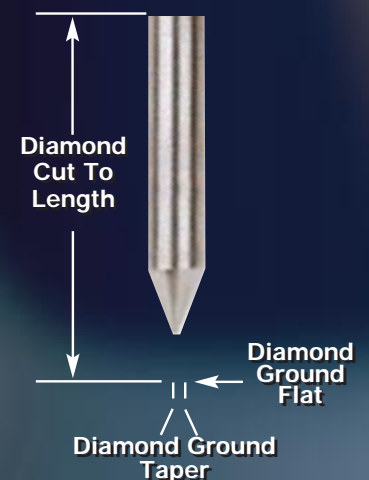


Produces a longitudinally ground taper with a 20RMS finish and a  $\pm 1/2^\circ$  angle tolerance.

## STEP 3 DIAMOND CUT-TO-LENGTH



Produces smooth diamond cut electrodes on a selectable length scale.



**DIAMOND GROUND PRODUCTS, INC.**



## DGP-1



- Our most economical grinder.
- Accomplishes process steps 1 & 2:  
Flat and Taper grinding
- For welders who regrind but don't cut, this product provides an all-purpose wheel on the left instead of the cutting apparatus.

## DGP-2



- A complete system that includes diamond grinding and cutting wheels to accomplish all electrode preparation steps.
- Cutting apparatus includes adjustable stop and scale to allow users to cut as short as .200" (3mm).

## DGP-3



- A complete system that includes diamond grinding and cutting wheels to accomplish all electrode preparation steps.
- Cutting apparatus includes built-in micrometer indexer for quick and very accurate cuts of different lengths as short as .200" (3mm).

## ACCESSORIES

- Vacuum system in insulated cabinet for dust collection.
- Short collets for grinding short electrodes.
- Flexible spotlight.
- Pre-wired and integrated 220v step down transformer. (If required)

## FEATURES

- No tools required for setup or collet changes.
- Flat, grind and cut most electrodes in 60 seconds or less.
- Long life, high-quality diamond wheels that are perfect for grinding tungsten.
- Fine, longitudinal finish on taper grinding to improve arc stability, starting and consistency.
- Taper angle adjustable from 6°-120° with a tolerance of +/- .5°.
- Collets available to grind electrodes for .020" to 3/16" (.5mm-4.8mm) diameter.

## APPLICATIONS

Mechanized / Automatic TIG & Plasma Welding

Manual TIG & Plasma Welding

Orbital Tube & Pipe Welding

## SPECIFICATIONS

### DGP Grinders

Dimensions:	21.5"(L) x 12"(D) x 12"(H) 564mm x 305mm x 305mm
Weight:	27.2 lbs. / 12.3 kg
Voltage:	115 VAC, 60 Hz, or 220 VAC, 50 Hz option.
Amperage:	5.0 Amps

### DGP Grinders with Vacuum Cabinet

Dimensions:	26"(L) x 20"(D) x 44"(H) 660mm x 508mm x 1,118mm
Weight:	102 lbs. / 46.4 kg
Voltage:	115 VAC, 60 Hz, or 220 VAC, 50 Hz option.
Amperage:	13.5 Amps

## Piranha II

- Compact/precision tungsten grinder .040"-3/32" (1.0-2.4mm).

## Piranha III

- Heavy duty dedicated tungsten grinder designed for continuous grinding of .040"-3/16" (1.0mm-4.8mm).

## Pre Ground Electrodes

- CNC manufactured high tolerance electrodes for orbital and automatic tig and plasma welding.

## Premium Tungsten

- Thoriated, Lanthanated, Ceriated, Zirconiated, Tri-mix®, Pure and specialty materials.

## DIAMOND GROUND PRODUCTS, INC.

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