

TIG-POINT TUNGSTEN GRINDER

PATENT # 3305149



FEATURES

- Fast, safe and consistently reliable longitudinal tungsten point grinding.
- Tig-Point grinds, polishes and cuts Tungsten.
- Increased TIG and Plasma electrode Life.
- Universal guide for all standard electrode diameters and lengths.
- Portable, easy to handle.
- Adjustable grinding angle from 15° to 120°.
- Sharpens electrodes from .020"(.508mm) to 1/4"(6.35mm)
- Can grind electrodes as short as 5/8"(15.875mm).

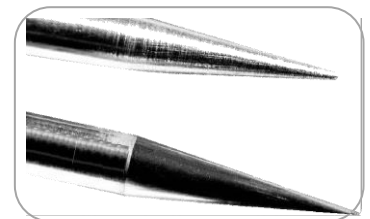
UNIQUE Longitudinal Tungsten Electrode Grinding and Precision Cut-Off All In One Machine

The TIG-Point system offers precision longitudinal grinding of tungsten electrodes for use in TIG and Plasma welding applications. Setup and grinding operations are quick, safe, and reliable. The TIG-Point can be configured for grinding, polishing and cutting providing longer tungsten life, consistent arc parameters and improved performance over other grinding methods.



Why Longitudinal Grinding?

In the manufacture of tungsten electrodes the molecular structure of the grain runs in a longitudinal direction. Lateral grinding has a detrimental effect on the smooth surface of the electrode.



The rough surface variations caused by lateral grinding causes the arc to wander and the tungsten to overheat causing undesirable weld arc characteristics and reduced tungsten life.

By utilizing longitudinal grinding with the tungsten grain direction the arc is narrow and bell shaped and very stable. The tungsten electrode has a lower thermal load and therefore longer life.



OPTIONAL BASE CABINET
For mounting the TIG-POINT system.



OPTIONAL VACUUM SYSTEM
Robust 6 Gallon vacuum system to keep dust and contaminants out of the environment.

GRINDING/POLISHING WHEELS
Wide variety of grinding, polishing and cutoff wheels available to meet all requirements.



OPTIONAL RISER MOUNT
Required when using the Dual Spindle TIG-POINT.



OPTIONAL SHORT ELECTRODE SUPPORT
For sharpening electrodes down to 5/8" length.

DIAMOND CUTOFF WHEEL
Provides a clean cut method of shortening electrodes. Cutoff of contaminated tungsten ends before regrinding insures a high quality, reliable tungsten electrode.



OPTIONAL LIGHT AND MAG
High Intensity light and magnifying glass for added visibility.

SPECIFICATIONS

TIG-POINT –	120 Volt, 2 Amp, 1/10 HP
Tungsten Diameters -	.020(.508mm) to 1/4" (6.35mm)
Range of Angle –	15° - 120°
Minimum Electrode Length -	1-1/2"(38.1mm), Down to 5/8"(15.74mm) with optional support.
Vacuum System –	120 Volt, 10Amp, 4.5 HP, 6 Gallon

HOW TO ORDER

PART NUMBER	DESCRIPTION
520000	TIG-POINT Single Spindle Tungsten Grinder
520001	TIG-POINT Dual Spindle Tungsten Grinder with Cutoff Wheel

OPTIONAL EQUIPMENT - ** Supplied with Unit

PART NUMBER	DESCRIPTION	PART NUMBER	DESCRIPTION
520501	Riser Mount	520619A	Short Electrode Support 1/16"(1.574mm)
525500	Base Cabinet	520619B	Short Electrode Support 3/32"(2.381mm)
525550	Vacuum System	520619C	Short Electrode Support 1/8"(3.175mm)
525600	High Intensity Work Light	520619D	Short Electrode Support 5/32"(3.968mm)
525650	Combo Light and Magnifier	520619S	Short Electrode Support .040"(1.016mm)
520608	Cleaning Rubber for Cam	520602	Corundum Grinding Wheel – 80 Grit
520403	Diamond Dresser	520603	**Corundum Grinding Wheel – 120 Grit
520400	TIG-Point Dressing Fixture	520604	Corundum Polishing Wheel – 150 Grit
520607	Whetstone for Cleaning Diamond Wheel	525606	Diamond Wheel – 150 Grit
520617	Roll Point(Hand Held Tool)	520625	Combo – Rough and Polishing Wheel