



SHARPSHOOTER™

THE WORLD'S FINEST TUNGSTEN ELECTRODE GRINDER



Other Electrode Grinders Have a Few of These Features,
Only the **SHARPSHOOTER™** Has Them All:

- Fully enclosed grinding area traps dust, protects operator
- Rapid setup and grinding
- Easy operation with grinding wand. **No tools required**
- Easy setup repeatedly prepares the same tungsten geometry
- Excellent electrode grind concentricity
- Accurate tip diameter control via unique twin-stop electrode wand
- No loose electrode guides that produce bad concentricity
- Tip flat diameter measurement scale
- Works with .040" - 3/16" (1.0mm—4.8mm) diameters
1/4" capacity available on demand
- Rugged unit is ideal for high production
- Fixtured Diamond cutting option as short as 0.235" (6mm)
A SHARPSHOOTER™ ADVANTAGE!
Your hands do NOT hold the tungsten while cutting!
- Dust extraction options available with 1.0 micron or **HEPA**, 0.3 micron filtration

SAFE —PRECISE—EASY

AWS Safety and Health Fact Sheet No. 27
Dated October 2003, Recommends:

“Use a high-efficiency dust collection system to capture particles created during the grinding of electrodes or disturbed during housekeeping.”

The **SHARPSHOOTER™** offers optional 1.0 Micron or **HEPA** 0.3 Micron dust extraction.
Please see back page for model options.



Dust Extractor is contained quietly in a work cabinet with shelf for storing consumables (TSS-4 and TSS-4H models)



Optional Dust Extraction System and Cabinet

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**INDUSTRY
LEADING**





ADVANTAGES

Most Precise

A universal electrode wand holds the electrode securely and at the closest possible proximity to the grinding contact point. This produces concentric grinds not available on other grinders that use electrode guides/bushings with loose fit-up that become even looser after use. The Sharp Shooter™ has no problems with odd sized electrode diameters. Every electrode size is gripped tightly to ensure precision grinding.

Safest

The grinding and cutting areas are enclosed and provided with a Lexan® window for viewing, keeping potentially harmful dust away from lungs, sparks away from eyes, and fingers free from injury. Safety officers are especially pleased with the design of this equipment.

Easiest to Use

Designed so that anyone can easily grind, flat and cut tungsten electrodes with repeatable accuracy. There are no complicated adjustments, special tools, or difficult, time consuming setups. The wand permits one-touch grinding, flattening and cutting.

Rugged Machine

This is not a common bench grinder rigged up as a tungsten grinder. It is purpose designed to provide a rugged, dedicated machine tool for accurately preparing tungsten electrodes.

Optional Dust Extraction System

Quiet, (less than 60 dbA) integrated 1 micron dust extraction system (HEPA 0.3 micron filter is also available). One convenient switch turns on/off both the grinder and dust extractor. Upon turn off, the dust extractor runs another five seconds to clean the system. Heavy, 14 gauge, all welded cabinet with work surface is also available.

AVAILABLE MODELS:

TSS-1 SHARPSHOOTER™ Tungsten Grinding Center: Provides a safe and accurate enclosed grinding center with integrated length measurement mechanism. Tungsten dust is collected inside an enclosed area and is easily vacuumed out.

TSS-2 SHARPSHOOTER™ Tungsten Grinding & Precision Cutting Center: All the features of TSS-1 plus the ability to precisely cut tungsten to the correct length using the included diamond cutting wheel and length measurement mechanism. Tungsten dust from grinding, cutting, and flattening is collected inside an enclosed area. Tungsten is ALWAYS fixtured. **Unsafe cutting of hand held tungsten is eliminated.**

TSS-3 SHARPSHOOTER™ Tungsten Grinding & Precision Cutting Center w/1.0 Micron Dust Extractor: All the features of the TSS-2 plus integrated, 1.0 Micron dust extraction featuring one switch control and auto-start/stop of the dust extractor.

TSS-3H SHARPSHOOTER™ Tungsten Grinding & Precision Cutting Center w/HEPA 0.3 Micron Dust Extractor
Same as TSS-3 but with HEPA dust extraction and capture.

TSS-4 SHARPSHOOTER™ Tungsten Grinding & Precision Cutting Center w/1.0 Micron Dust Extractor and Cabinet
Same features as the TSS-3 but with the addition of a heavy, 14 gauge, all welded, work cabinet that provides a work surface, encloses the dust extractor and provides a storage shelf for extra wheels and collets. Arrives fully assembled and ready to work.

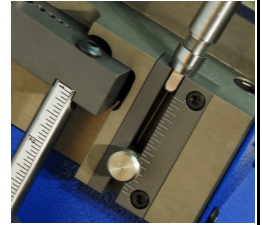
TSS-4H SHARPSHOOTER™ Tungsten Grinding & Precision Cutting Center w/HEPA Dust Extractor and Cabinet
Same as TSS-4 but with HEPA dust extraction and capture.

ALL SHARPSHOOTER™ models include your choice of 2 collets. Specify sizes when ordering.

EASY TO USE

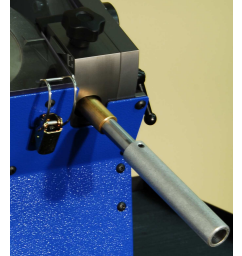
Step 1:

Set electrode stick out from wand to ensure consistency.



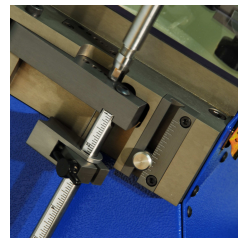
Step 2:

Grind electrode with the perfect fit of the wand into its precision machined guide for quick and easy work.



Step 3:

Insert wand into cut-off fixture, close into enclosed cut-off wheel, open to get electrode. Since tungsten is completely fixtured, your hands stay safe!



Specifications (with out dust extractors)

Voltage: 115V or 208-230V 60 Hz
230V 50 Hz available on demand
Current: 6.8 Amp Full Load at 115V, 3.4 at 230V
with automatic overload protection
Motor: 1/2 Horsepower (UL Listed)
Weight: 40 lbs. (18.2 kg)
Dimensions: 13" H X 12.5" W x 13" D
33cm H X 31.75cm W x 33cm D
Diameters: .040" to 3/16" (1.0mm to 4.8mm)
1/4" Capacity available on demand

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