



12V CORDLESS TUNGSTEN GRINDER /CUTTER

The Strata STG12 12V Cordless Tungsten Grinder is a compact, portable solution for accurately sharpening TIG tungsten electrodes on site or in the workshop. Designed for fabricators, engineers, and welders, it delivers consistent grind angles with repeatable results, without the need for a bench grinder.

The STG12 easily sharpens tungsten electrodes from 1.0 mm to 3.2 mm diameter, producing clean, centred points with selectable grinding angles. Adjustable angle settings of 10°, 15°, 20°, 22.5°, and 25° allow you to match electrode geometry to material type, amperage, and welding position.

Powered by a 12V lithium-ion battery, the Strata STG12 offers cordless convenience with enough power for plenty of long shifts and regular TIG preparation work. Variable speed control lets you adjust grinding speed based on tungsten condition, improving finish quality and diamond wheel life.



- ✓ Cordless 12V lithium-ion operation for portability
- ✓ Precision grinding for improved TIG arc control
- ✓ Adjustable grinding angles from 10° to 25°
- ✓ Variable speed control to suit tungsten condition
- ✓ Built-in tungsten breaker for contaminated electrodes
- ✓ Compact size suited to site work, fabrication shops.
- ✓ Generic USB C type charging
- ✓ Diamond grinding wheels designed for long service life

Description	Details
BRAND	1Strata
PRODUCT NAME	Strata STG12 12V Cordless Tungsten Grinder
PRODUCT TYPE	Tungsten Grinder
POWER SOURCE	Cordless electric
POWER SUPPLY	12V lithium-ion
MAXIMUM DISC DIAMETER	25 mm
BATTERY PACK INCLUDED	Built in
BATTERY CHARGER INCLUDED	Yes, USB C Type

Tungsten Size Compatibility:	Grinding Angle Options:
1.0 mm	10°
1.6 mm	15°
2.0 mm	20°
2.4 mm	22.5°
3.2 mm	25°

The Strata STG12 12V Cordless Tungsten Grinder delivers fast, accurate, and repeatable sharpening of TIG tungsten electrodes. The precision guide system ensures consistent electrode geometry, helping improve arc stability, starts, and weld quality.

Capable of grinding five common tungsten sizes across multiple angle settings, the STG12 offers up to **25 size and angle combinations**, making it suitable for a wide range of TIG welding applications in aluminium, stainless steel, carbon steel, and exotic alloys.

A built-in tungsten breaker allows quick removal of contaminated or balled electrode tips, reducing waste and downtime. Heavy-duty diamond double sided grinding wheels provide long service life, rated for approximately **200 sharpenings per side**, making the grinder cost-effective for daily use.



STG12
User guide, specs, videos

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STRATA

SUPERIOR WELDING PRODUCTS



STRATA STG12 - TUNGSTEN GRINDER - CORDLESS - 12V

Accessories

Each Strata STG12 kit includes:



1. Strata 12V Cordless Tungsten Grinder / Cutter Kit (STG12)
2. 5pcs Diamond Grinding Disc (#42596)
3. 3pcs Mandrel (#42597)
4. Tungsten Grinder Head Assembly (#42595)
5. Collet Wrench (#42598)
6. USB Type-C Cable
7. Storage bag

Warranty

Covered by the **Strata standard warranty**.

Why Use a Strata Tungsten Grinder Instead of an Angle Grinder?

Sharpening TIG tungstens on a standard angle or bench grinder is common, but it often leads to inconsistent results. Freehand grinding makes it difficult to maintain a centred point and repeatable angle, which can cause unstable arcs and poor weld appearance.

The **Strata STG12 12V Cordless Tungsten Grinder** is designed specifically for TIG tungsten preparation, delivering consistent geometry every time.

A properly sharpened tungsten using the Strata STG12 will:

- ✓ Improve arc control
- ✓ Improve arc stability
- ✓ Reduce porosity caused by contaminated electrodes
- ✓ Minimise arc wander, especially on outside corners
- ✓ Produce cleaner, stronger welds with better penetration
- ✓ Deliver consistent results through accurate, repeatable point geometry

Bench Grinder vs Strata STG12 Tungsten Grinder

Angle / Bench Grinder Limitations

- ✓ Freehand grinding leads to uneven points
- ✓ Difficult to maintain consistent grinding angles
- ✓ Higher risk of contamination
- ✓ Requires moving away from the weld area to a bench grinder
- ✓ Inconsistent arc starts and weld profile

Strata STG12 Advantages

- ✓ Precision guides ensure centred, repeatable points
- ✓ Selectable grind angles from **10° to 25°**
- ✓ Designed for common tungsten sizes from **1.0 mm to 3.2 mm**
- ✓ Dedicated diamond grinding wheels for controlled material removal
- ✓ Built-in tungsten breaker for contaminated or balled tips
- ✓ Cordless design keeps the tool at the job, not the bench
- ✓ Catches dangerous tungsten dust for safe disposal, protecting your lungs and health

Designed for Site and Workshop Welding

The compact, cordless design of the Strata STG12 means you can sharpen tungstens without leaving your welding position. This is especially useful when working under vehicles, inside machinery, or in confined spaces such as roll cages and pipework.

Heavy-duty, double-sided diamond grinding wheels deliver long service life, rated for approximately **200 sharpenings per side**, ensuring consistent results without frequent wheel changes.

A Must-Have Tool for TIG Welding

If you own a TIG welder, a dedicated tungsten grinder is essential. The Strata STG12 removes the guesswork from electrode preparation, improving arc performance and weld quality across aluminium, stainless steel, and carbon steel applications.