

ESG Plus²

A sensation:
The first portable
tungsten grinder
with two different
grinding wheels.



...✦ Transportable
tool

ESG Plus ESG Plus²

Tungsten Grinder

The powerful Hand-Tungsten-Grinder for
grinding, facing and cutting

The best solution for a precise and fast preparation of
tungsten electrodes.

One machine – complete electrode preparation:

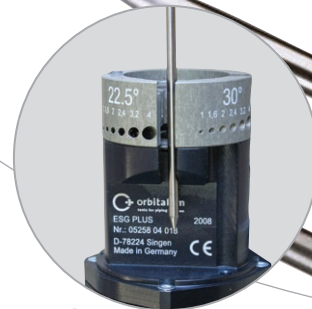
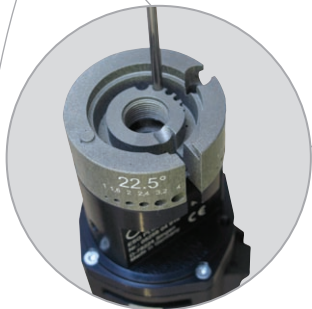
- Grinding electrodes:
 - 4 different angles
 - 6 different electrode sizes
- Facing electrodes
- Cutting electrodes

Advantages:

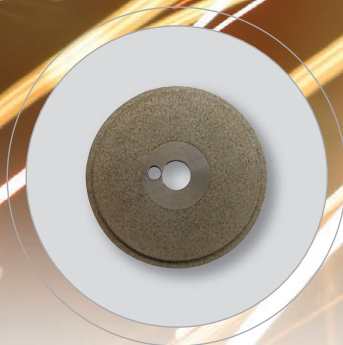
- Highest angle accuracy
- Transportable
- Ergonomic design
- Non-stop action possible

Your benefits:

- Perfect preparation for orbital as well as hand welding
- High flexibility
- High productivity
- Less energy-consuming
- No tool change



...✦ For preparation
of tungsten
electrodes Ø
1.0 - 4.0 mm



Exchangeable **diamond grinding wheels** for optimal performance.

Fine:

Code 790 052 487

Medium:

Code 790 052 488

Coarse:

Code 790 052 550



Cutting device to cut tungsten electrodes to length.

Code 790 052 513

Electrode holder with clamping collet for clamping range 1.0 - 3.2 mm (0.039 - 0.126 inch).

Code 790 052 457

Flexible clamping collet to center the electrode in the holder.

For easy grinding of smaller electrodes \varnothing 1.0 - 3.2 mm

Code 790 052 481



For stationary ESG Plus set-up: **Wall-/table-/vice-mounting plate**

Code 790 052 483

Protective cover

Easy to adapt on the ESG Plus head. With integrated retainer for suction units. For use on electrodes with thorium.

For ESG Plus:

Code 790 052 490

For ESG Plus²:

Code 790 052 596



Double-Decker Kit:

Easy to mount to the ESG Plus. Possibility to use 2 different grinding wheels at the same time on one ESG Plus (790 052 550 and 790 052 487 for scrubbing and smoothing).

Code 790 052 490

Tungsten Grinder

Technical data	ESG Plus
Dimensions (with gear)	\varnothing 65 x 350 mm / \varnothing 2.560 x 13.780 inch
Machine weight approx.	1.4 kg
Power	500 W
Power-on time	100 %
Rotary speed	30.000 rpm
Voltage versions:	230 V, 50/60 Hz or 110 V, 50/60 Hz
Main supply cable (length)	3 m / 118.1 inch
Vibration level according to EN 28662, Part 1	< 2.5 m/s ²
Noise level in the workplace	Idle running approx. 83 dB (A)

Working range

Electrode- \varnothing	1.0 / 1.6 / 2.0 / 2.4 / 3.2 / 4.0 mm 0.040 / 1/16 / 0.080 / 3/32 / 1/8 / 5/32 inch
Grinding angles (depending on version)	15° / 18° / 22.5° / 30° 15° / 30° / 45° / 60°

The technical data are not binding. They are not warranted characteristics and are subject to change. Please consult our general conditions of supply.

Comes with:

- 1 Tungsten Grinder ESG Plus or ESG Plus²
 - 1 Powder-coated steel carrying case
 - 1 Diamond grinding wheel (medium, Code 790 052 488)
 - 1 Tool to replace the grinding wheel
 - 1 Set of operating instructions and spare parts list
- Optional for the ESG Plus²:
- 1 Diamond grinding wheel (coarse, Code 790 052 550)

Materials

Tungsten electrodes including Zirconium, Lanthan and Cerium.

Important: Not to be used for tungsten electrodes containing Thorium without suction device.

Stamp of distributor:

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Orbitalum Tools GmbH

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