

# ESG MAX, ESG Plus, ESG Plus<sup>2</sup>

## Tungsten Grinders

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

The perfect hand-held grinder for cutting, grinding and planing electrodes which are used in WIG/TIG welding machines. Consider country-specific regulations, standards and guidelines when using tungsten electrodes with thorium.



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

One machine - complete electrode preparation:

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

The machines are available with a high-quality and powerful drive with 230 Volt and/or 110 Volt. Machines and accessories are delivered in a durable storage and shipping case.

- Repeatable points every time due to preset grinding angles
- Easy and fast to use
- Optimum preparation for orbital and manual welding
- Longitudinal grinding for optimum arc ignition and excellent arc stability

- Guarantees longer tool life and ease of ignition of the tungsten electrode
- Specially designed for one-off jobs on site
- Compact design, optimum resilience and perfect reproducibility
- Solid, functional design
- Precise orbital grinding
- Facility for easy trimming of the electrodes (optional)
- External dust extractor can be easily adapted
- Short preparation times with high grinding performance
- No adjustment needs to be done before operation

### ADDITIONAL FEATURES ESG MAX:

- Lateral adjustment of the head for increased service life of the grinding wheel
- Grinding head with 72 holes: 36 holes for the grinding wheel with coarse grain, 36 holes for the grinding wheel with fine grain and cutting edge

- Continuously adjustable cutting device from 9.0 to 34.5 mm / 0.354" to 1.358" (available option)
- Including dust protection against grinding dust
- Adapter for extraction device for up to 96% less grinding dust particles (available option)
- Table mount included

### ADDITIONAL FEATURES ESG PLUS<sup>2</sup> AND ESG MAX:

- Portable tungsten grinder with two different grinding wheels. This allows the electrode to be pre-ground with the coarse diamond wheel then finished with the fine diamond wheel.



SCOPE OF DELIVERY / APPLICATION RANGE		ESG MAX	ESG PLUS	ESG PLUS²
Code	[230 V]	790 052 591	790 052 485 (15°/18°/22.5°/30°) 790 052 545 (15°/30°/45°/60°)	790 052 585 (15°/18°/22.5°/30°) 790 052 546 (15°/30°/45°/60°)
	[110 V]	790 052 592	790 052 486 (15°/18°/22.5°/30°) 790 052 645 (15°/30°/45°/60°)	790 052 586 (15°/18°/22.5°/30°) 790 052 646 (15°/30°/45°/60°)
Tungsten grinder	Pc.	1	1	1
Durable storage and shipping case	Pc.	1	1	1
Grinding head for electrodes Ø 1.0 - 1.6 - 2.0 - 2.4 - 3.2 - 4.0 mm* (0.04" - 1/16" - 0.08" - 3/32" - 1/8" - 5/32")*	Pc.	1	1	1
Grinding head for grinding angle 15° - 18° - 22.5° - 30° - 45° - 60°	Pc.	1	-	-
Grinding head for grinding angle 15° - 18° - 22.5° - 30° or 15° - 30° - 45° - 60°	Pc.	-	1	1
Diamond grinding wheel Fine (790 052 517)	Pc.	1	-	-
Diamond grinding wheel Coarse (790 052 518)	Pc.	1	-	-
Diamond grinding wheel Fine (790 052 487)	Pc.	-	-	1
Diamond grinding wheel Medium (790 052 488)	Pc.	-	1	-
Diamond grinding wheel Coarse (790 052 550)	Pc.	-	-	1
Table mounting plate	Pc.	1	-	-
Tool to replace the grinding wheel	Pc.	1	1	1
Operating instructions and spare parts list	Set	1	1	1
TECHNICAL DATA		ESG MAX	ESG PLUS	ESG PLUS²
Dimensions (including motor)	[mm]	Ø 65 x 350	Ø 65 x 350	Ø 65 x 350
	[inch]	Ø 2.56 x 13.78	Ø 2.56 x 13.78	Ø 2.56 x 13.78
Power	[W]	500	500	500
Power-on time	[%]	100	100	100
Speed (Rotary speed)	[rpm]	30.000	30.000	30.000
Main supply cable (length)	[m]	3	3	3
	[inch]	118.1	118.1	118.1
Vibration level (EN 28662, part 1)	[m/s²]	< 2.5	< 2.5	< 2.5
Noise level at the workplace (Idle running), approx.	[dB (A)]	83	83	83

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

\* An electrode holder is required to grind electrodes with 4.0 mm (5/32") diameter (available option).