

eromobil[®]

The mobile erosion device



**FIRST AID
FOR TOOL FAILURE.**



HOW CAN I AVOID COSTLY REJECTS BROUGHT ABOUT BY TOOL FAILURE?

***eromobil*® IS THE
INGENIOUS SOLUTION.**

eromobil.de

Not only is it annoying when a drill bit breaks off in the workpiece, it is also expensive. Particularly in the case of small series and special-purpose production, the damage costs can quickly run into the thousands.

The swift and cost-effective saving grace: the **eromobil**® metal eroder. With this device, you will be able to remove broken-off screw taps, twist drills and much more in a matter of minutes – both reliably and without damaging your valuable workpiece.

Insurance for every metalworker.

eromobil® is an erosion device for fast and effective use on pillar and radial drilling machines, milling machines, boring mills, magnetic drilling stands and special-purpose machines.

What's more, **eromobil®** impresses with its compact design, robust workmanship, excellent ergonomics and easy handling. That is why it should be a permanent fixture at any metalworking company.



Retain value. Save t

Throw away the workpiece? Too expensive.
Too risky. You can remove broken-off tools reliably using contactless electrical erosion. The electrode remains intact and your workpiece can be machined again.



The hollow copper electrode is clamped in the oscillating head. It is smaller in diameter than the broken-off tool. During the erosion process, the core of the broken-off tool is vaporised by spark discharge.



Vaporisation releases the cutting edges and allows them to be easily removed. The electrode does not come into contact with the workpiece, meaning that the thread remains undamaged. The company's standard choice of drilling emulsion is used as the coolant.

Just the power output you are looking for.

Depending on the power output you require and the thread sizes you want to erode, you can choose from two variants of the **eromobil®**.

| | eromobil® er230s | eromobil® er400t |
|--------------|--|-----------------------------------|
| Thread sizes | M 2 to M 20 | M 2 to M 40 |
| Connection | 220/230 V alternating current - 50 Hz - 16 | 400 V alternating current - 50 Hz |
| Power output | 3,6 kVA | 6,0 kVA |

Standard scope of supply:

Generator in trolley, oscillating head, supply hose, earth cable, coolant pump, coolant tank, 1x open-ended spanner WAF 19 and WAF 24 respectively, 10 anti-splash bags and operating instructions.



- 01 Generator with robust, compact housing and ergonomic handle
- 02 Main switch and temperature monitor
- 03 Oscillating head with ergonomic handles and LED display
- 04 Hollow electrodes
- 05 Storage compartment for oscillating head, supply hose and earth cable
- 06 Tool drawer with inner compartment partitioning for accessories
- 07 Coolant tank with two chambers for suction and extraction
- 08 Coolant pump with suction hose

Combine your way to success in almost every erosion situation.

With **eromobil®** and the appropriate hollow electrode, you can remove broken-off tools, screws and bolts quickly and reliably. The thin wall thickness of the hollow electrodes facilitates particularly quick and simple erosion.

In addition to our basic range of electrodes in all conventional sizes, you will also find special-purpose electrodes in a wide variety of materials, diameters and lengths for almost any erosion task.

| Tool | Electrode material | Diameter (Ø) | Standard length |
|---------------|----------------------------------|--------------|-----------------|
| Metal | Hollow copper electrode | 1.0–30.0 mm | 250 mm |
| Solid carbide | Tungsten hollow copper electrode | 1.0–5.0 mm | 175 mm |
| | | 6.0–10.0 mm | 200 mm |

| Thread/metric | Electrode/Ø | Collet/Ø |
|---------------|--------------|----------|
| M 2–2.5 | 1.0 mm | 1.0 mm |
| M 3 | 1.5 mm | 1.5 mm |
| M 4 | 2.0 mm | 2.0 mm |
| M 5 | 2.5 mm | 2.5 mm |
| M 6 | 3.0 mm | 3.0 mm |
| M 7 | 3.5 mm | 3.5 mm |
| M 8 | 4.0 mm | 4.0 mm |
| M 9 | 4.5 mm | 4.5 mm |
| M 10 | 5.0 mm | 5.0 mm |
| M 12 | 6.0 mm | 6.0 mm |
| M 14 | 7.0 mm | 7.0 mm |
| M 16 | 8.0 mm | 8.0 mm |
| M 18 | 10.0 mm | 10.0 mm |
| M 20–30 | 12.0 mm | 10.0 mm |
| M 30 | 13.0–30.0 mm | 10.0 mm |

Electrodes with a diameter of 12 mm or more have a clamping adapter with a diameter of 10 mm.



- 01** Vertical erosion on the pillar drilling machine
- 02** Horizontal erosion on a lathe
- 03** Erosion at any angle using the example of a milling machine



Everything you need:

**eromobil®
Starter case
COMPLETE/
SMART**

Included in the starter case COMPLETE:

- 1 WiFi inspection camera
- 1 set of hollow copper electrodes ø 1–10 mm
- 1 set of collets ø 1–10 mm
- 1 set of drift punches ø 2–6 mm
- 2 vibration head retainer MK-2, MK-3
- 1 clamping nut
- 10 vibration head splash protection bags
- 1 precision vernier calliper
- 1 coolant pump suction basket complete with check valve and threaded coupling
- 2 open-ended spanners, WAF 19 mm, WAF 24 mm
- 1 set of tweezers for removing the residue after the erosion process
- 4 hose clamps 9 mm
- 1 cylindrical shank socket ø 12 mm

Also available as SMART starter case without WiFi inspection camera.



Neat and tidy and ready to go at any time.

The optional **eromobil®** starter case has all the materials and tools you need to make the most of your **eromobil®**. From the inspection camera (COMPLETE starter case) to spare electrodes and tweezers. So there's no need to waste your time searching for things.

The robust hard-shell case with its clearly arranged interior keeps all tools and materials safe. And even if you already have an **eromobil®**, the starter case still offers numerous advantages.

Simply choose the accessories that you need.

Flexible magnetic drill jig for holding the **eromobil®** oscillating head with special flange.



- Lightweight, compact magnetic drill jig for holding the oscillating head including connection cable
- High magnetic holding force and safety circuit guarantee safe work in every position
- Integrated coolant tank with flexible jointed hose
- Feed handwheel can be moved from one side to the other
- Carriage height adjustable without tools

Find out about *eromobil*® now.

Rectifying a tool breakage issue really can be this simple and cost-effective: Investing in an *eromobil*® often pays off after the very first use! You also have the option of hiring one. We will happily provide you with advice on purchasing and kitting out your *eromobil*®.

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