

Waldmann & Weigl
eromobil® Metal Erosion Machines



First aid in case of tool breakage

eromobil®
Metal Erosion Machines

Erosion of snapped-off drill taps and
twist drills in just minutes at an outstanding
cost-to-performance ratio





First aid for tool breakage

With its *eromobil*® erosion machine to provide fast assistance in dealing with snapped-off drill bits, Waldmann & Weigl, founded back in 1972, has come up with a unique, straightforward way of dealing with the problem of tool breakage.

Within only a short time, the *eromobil*® has gained international recognition and become an indispensable problem-solver for a large number of producing companies.



In 2006, Waldmann & Weigl GmbH was taken over by the company HandlingTech, and consequently is now a part of the Hutzl Group.

The *eromobil*® has remained an unbeatable solution to the present day – in terms of its cost-to-performance ratio and its efficiency.

Disruptions to production processes as a result of tool breakage are minimized with the aid of the *eromobil*®, and damage to workpieces effectively prevented.



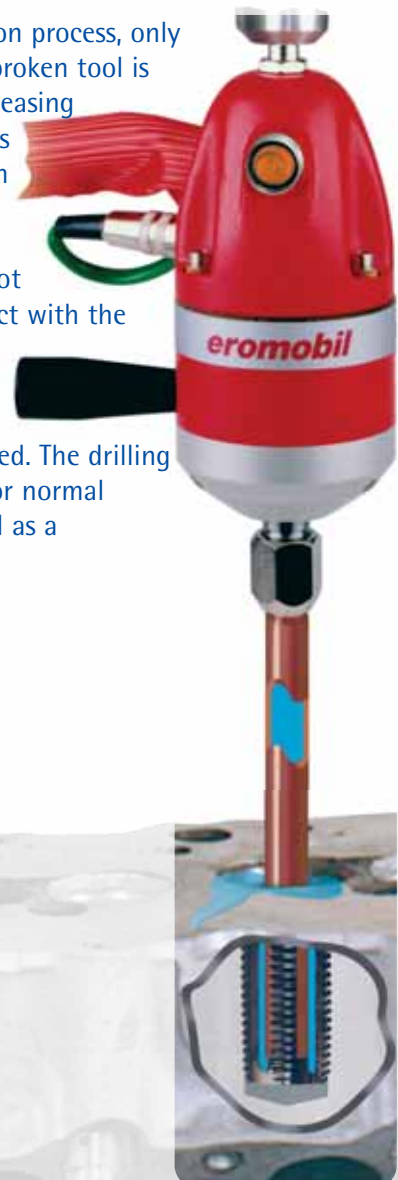
eromobil®

Erosion of broken and lodged thread taps, twist drills etc. is possible in just minutes at an outstanding cost-to-performance ratio

Functional principle:

The hollow copper electrode is clamped in the oscillating head. The diameter of the electrode is smaller than the snapped-off tool.

During the erosion process, only the core of the broken tool is disintegrated, releasing the cutting edges of the tool which can be easily removed. The electrode does not come into contact with the core of the borehole, so leaving the thread undamaged. The drilling emulsion used for normal operation is used as a cooling fluid.





eromobil® er230s

Light and easy to use. For threads from M 2 to around M 20.

The generator:

220/230 V AC; 3,6 kVA; 16 A; 50 Hz; L 450 x W 300 x H 260 mm; Weight appr. 22 kg.

eromobil® er400t

Power pack with threephase AC and even higher output. For tools from M 2 to M 40, carbide tools and deep boreholes.

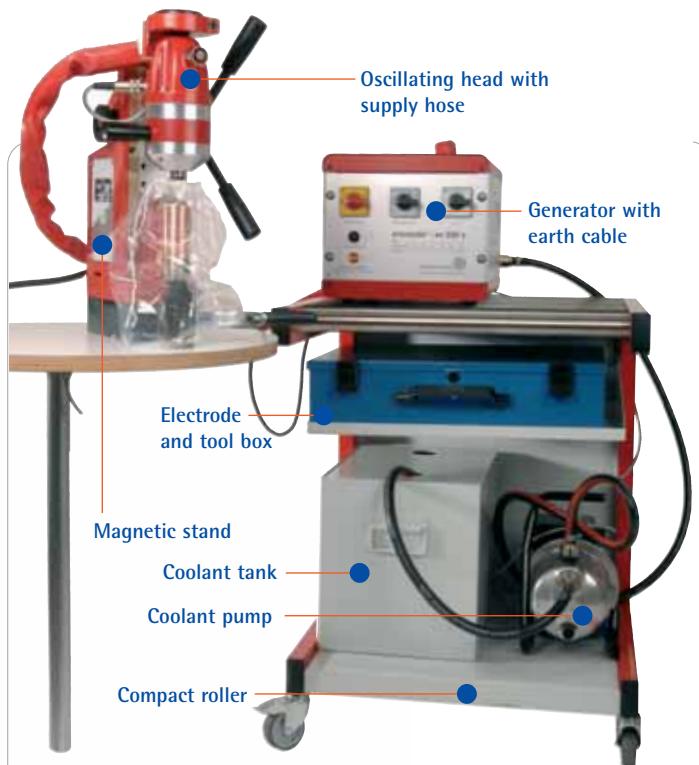
The generator:

380/400 V threephase AC; 6.0 kVA; 16 A; 50 Hz; L 450 x W 300 x H 260 mm; weight appr. 28 kg. Other operating voltages available.

The standard device comes with the following equipment:

- Generator in a robust, compact housing
- Oscillating head with parallel shank socket, dia. 12 mm
- Coolant pump for effective flushing, including 2 m suction hose and foot-operated valve and 2 m pressure hose for quick-fit coupling,
- Plus: 2 m supply hose from the generator to the oscillating head (lengths of up to 7.5 metres available)
- Plus: 2 m earthing cable with clips
- Plus: one open-ended wrench each sizes 19 mm and 24 mm, and 10 splash guard sockets.

Electrodes and collet chucks must be additionally ordered as required (for sizes, see table).



Accessories

Compact mobile workbench: Handy trolley to accommodate the machine. The upper contact surface for the generator has a rubber slip-proof lining, central shelf for toolbox, lower shelf for the coolant pump and tank. Compartment for the oscillating head at the back.

Coolant tank: Two chambers for induction and return flow, capacity of around 30 litres and two carrying handles.

Tool box: With internal compartments for electrodes and double inlays for tools. With carrying handle and quick-release lock.

Deep hole inspection light: With lampholders dia. 5 mm and 35 mm length for illumination of holes after erosion. Also with 230 V plug-in transformer for universal inspection work.

Lamp holder: Dia. 5 mm, 100 mm length for deep-hole inspection line (available with a length of up to 300 mm).

Oscillating head socket: MK-2/MK-3 for direct mounting in the spindle sleeve.

Magnetic stand: With retaining bracket and special flange for accommodating the oscillating head. Traversable slide, upper section capable of swivel and traversing action.

Drift punches: For easy removal of tool residues after erosion. Available in diameters 2.0 / 3.0 / 4.0 / 5.0 / 6.0 mm.



Drift punches

The right hollow electrode for every job

Thread (metric mm)	Electrode size	Collet chuck size
ø 2 -2,5	ø 1,0 mm	ø 1,0 mm
ø 3	ø 1,5 mm	ø 1,5 mm
ø 4	ø 2,0 mm	ø 2,0 mm
ø 5	ø 2,5 mm	ø 2,5 mm
ø 6	ø 3,0 mm	ø 3,0 mm
ø 7	ø 3,5 mm	ø 3,5 mm
ø 8	ø 4,0 mm	ø 4,0 mm
ø 9	ø 4,5 mm	ø 4,5 mm
ø 10	ø 5,0 mm	ø 5,0 mm
ø 12	ø 6,0 mm	ø 6,0 mm
ø 14	ø 7,0 mm	ø 7,0 mm
ø 16	ø 8,0 mm	ø 8,0 mm
ø 18	ø 10,0 mm	ø 10,0 mm
ø 20	ø 12,0 mm	ø 10,0 mm

Electrodes from dia. 12 mm have a dia. 10 mm clamping fitting, consequently the largest collet chuck is always 10 mm in diameter. Electrodes are available up to a diameter of 30 mm and a length of 1000 mm.

For eroding solid carbide tools, special hollow electrodes made of tungsten copper are used. These are available from diameters of 1.0 mm to 12.0 mm.

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Oscillating head sockets MK-2 and MK-3



Deep-hole inspection lights with plug-in transformer

Magnetic stands



Toolbox (without content)

Application examples



Shaft containing a snapped-off 3/8 inch thread tap



Instead of the tap, the oscillating head of the erosion unit is clamped in the machine

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Erosion of the broken drill using the machine's normal cooling fluid



The deep-hole inspection light is used to check for remaining tool residues



Removed residues of the eroded tool / thread tap

A member of the

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of Companies
A powerful network

