

eromobil[®]

THE METAL ERODER

Broken taps, twist drills, reamers and more removed **in minutes**

**Ready when
you are!**



FISCHLI + FUHRMANN
(Pty) Ltd.

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eromobil® - Because price is

Always ready when you need it:

Quick application on post and radial drills, milling machines, boring mills, magnetic drill stands and special-purpose machines

Don't panic when tools break!

In component machining, machine, apparatus and system building as well as in the automotive industries, it is quite normal for broken tools to get stuck in expensive components. It happens in every company and factory.

The worst way of trying to repair the damage is to fish around in the drill hole with a hammer and pliers. This can damage the expensive part entirely, and you are left with nothing but a lot of expensive waste metal.

The professional way of preventing production downtime and keeping rejects to a minimum is the **eromobil®**. The power tool for removing broken tools easily in minutes - without damaging the workpiece.

Now even higher performance with new oscillation technology!
Leaves the **eromobil®** oscillating head cold - even in continuous operation!

Supply hose (up to 5 m) for work on boring mills or during erection work

Counterholding handle arranged at ideal height relative to tightening nut

Chuck

12 mm dia. cylinder shaft (standard) for clamping in chucks or collets or with MK-2/MK-3 directly in the quill

Large, shock-resistant, functional light for indicating optimal material removal

Double-bearing supported and case-hardened oscillating armature for continuous operation

Tightening nut for collet and electrodes

Hollow copper electrode up to 10 mm dia. Disappears into oscillating head

Commercially available boring emulsion

eromobil® - it's this simple!

- ① A hollow copper electrode is clamped in an oscillating head which has a smaller diameter than the broken tool.
- ② Only the core of the broken tool is disintegrated with the eroding method.
- ③ During the process, the cutting edges come loose and can be easily removed.

The electrode does not come into contact with the core of the bore so that the thread is not damaged. The boring emulsion generally used in the shop is used as coolant.

Remains of broken tap

Feed (oscillating)



nd performance are right!

A strong couple for rendering mobility!

eromobil®er 230 s

Massed power for threads up to approx. M 20. Light and handy. Ideal as "sole entertainer" for many shops.

- Generator:

220/230 V alternating current; 3.6 kVA; 16 A; 50 Hz; L 450 x W 300 x H 260 mm; weight approx. 22 kg; two-colour RAL 3002 and 7035

eromobil®er 400 t

The power pack with three-phase current and increased capacity. For tools up to approx. M 40, carbide metal tools and deep bore holes.

- Generator:

380/400 V alternating current; 6.0 kVA; 16 A; 50 Hz; L 450 x W 300 x H 260 mm; weight approx. 28 kg; two-colour RAL 3002 and 7035. Different operating currents available.

Generators that win you extra points:

- **Rugged aluminium case**
Always cool due to airstream
- **More eroding capacity**
No efficiency-reducing magnetic fields, less heat development
- **Clear performance table**
For setting thread, electrode size and eroding grade
- **Centrally arranged controls**
Master switch, 6-step switch, pump switch, temperature controller, connection for deep hole inspection light

Complete and ready for operation!

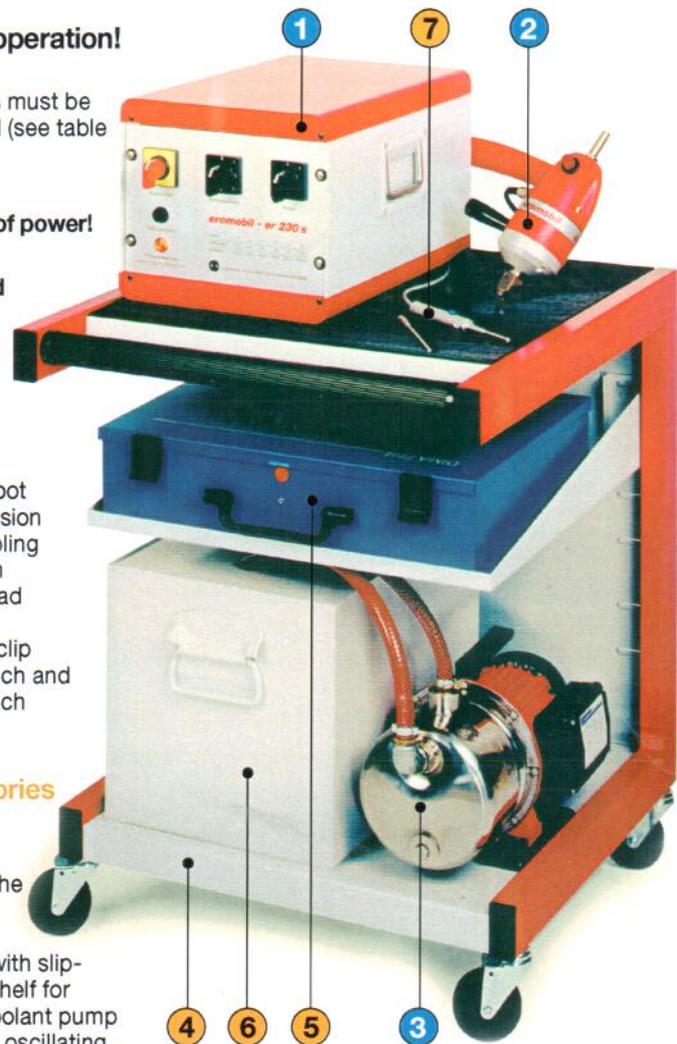
Basic equipment

Only the electrodes and collets must be ordered additionally as required (see table below for sizes)

- 1 **eromobil® generator**
Rugged and cool with lots of power!
In compact case
- 2 **eromobil® oscillating head**
Extra power with leading-edge oscillating technology!
12 mm dia. cylinder shaft mount
- 3 **Coolant pump**
For effective flow!
With 2 m suction hose and foot valve plus 2 m long compression hose with quick-action coupling + 2 m long supply hose from generator to oscillating head (up to 5 m available) + 2 m long earth cable with clip + 1 x 19 mm open-end wrench and 1 x 24 mm open-end wrench and 10 anti-splash bags

Practical special accessories

- 4 **Compact trolley**
Mobile in all directions!
For quick transportation to the working site. Handy tubular handle with plastic profile; generator supporting base with slip-proof rubber lining, middle shelf for toolbox, base support for coolant pump and coolant tank. Holder for oscillating head at the back.



- 5 **Toolbox**
Keeps things tidy!
With 13 interior partitions for electrodes and double partitions for tools. Carrying handle and quick-lock catch.
- 6 **Coolant tank**
For situations where there is no coolant on site!
2 chambers for suction and return flow. Approx. 30 litre capacity and 2 carrying handles
- 7 **3.5 V deep hole inspection light**
Better safe than sorry!
With lamp carriers, dia. 5 mm and 35 mm long. For lighting out bore holes after eroding. Also with 230 V push-fit transformer for universal inspection work.

Not shown

- Lamp carriers, dia. 5 mm and 100 mm long for deep hole inspection light. (available up to 300 mm long)
- Oscillating head accommodation MK-2/MK-3 direct in quill.

The right hollow electrode for every application

Hollow copper electrodes		Collets
Thread (metric, mm)	Size dia. (standard)	Size dia.
M 2 - M 2,6	1.0 mm x 250 mm	1.0 mm
M 3	1.5 mm x 250 mm	1.5 mm
M 4	2.0 mm x 250 mm	2.0 mm
M 5	2.5 mm x 250 mm	2.5 mm
M 5 - M 6	3.0 mm x 250 mm	3.0 mm
M 6	3.5 mm x 250 mm	3.5 mm
M 6 - M 8	4.0 mm x 250 mm	4.0 mm
M 8	4.5 mm x 250 mm	4.5 mm
M 8 - M 10	5.0 mm x 250 mm	5.0 mm
M 10	6.0 mm x 250 mm	6.0 mm
M 12	7.0 mm x 250 mm	7.0 mm
M 12 - M 14	8.0 mm x 250 mm	8.0 mm
M 16 - M 20	10.0 mm x 250 mm	10.0 mm

Electrodes from 12 mm dia. upwards have a 10 mm dia. clamping shaft soldered in. Electrodes up to 25 mm dia. and 1000 mm long available on request.

The largest clamping shaft is always 10 mm in diameter

Special electrodes made of tungsten copper for machining carbide metal tools are available on request.

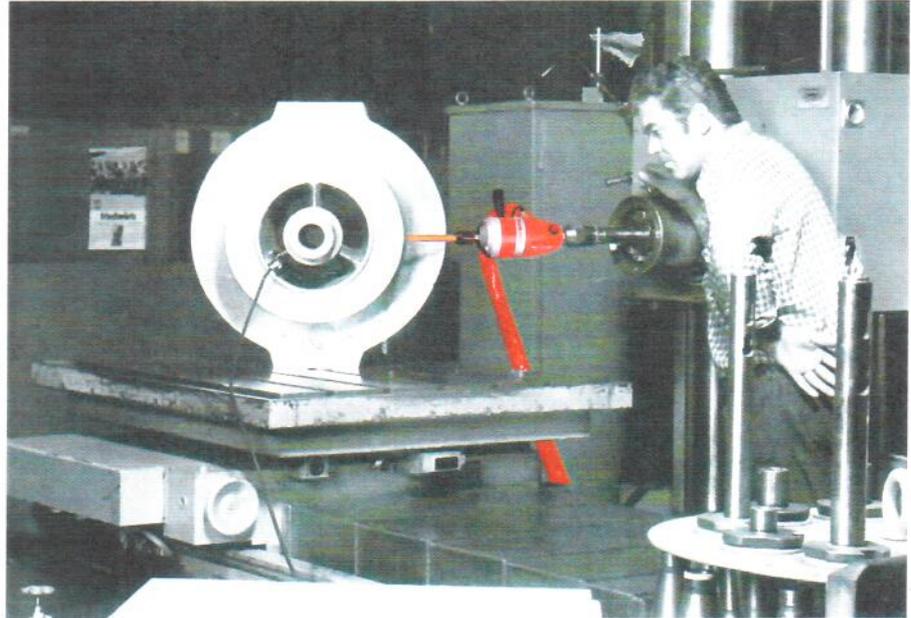
eromobil[®] – successful world-wide!

Ready when you are:

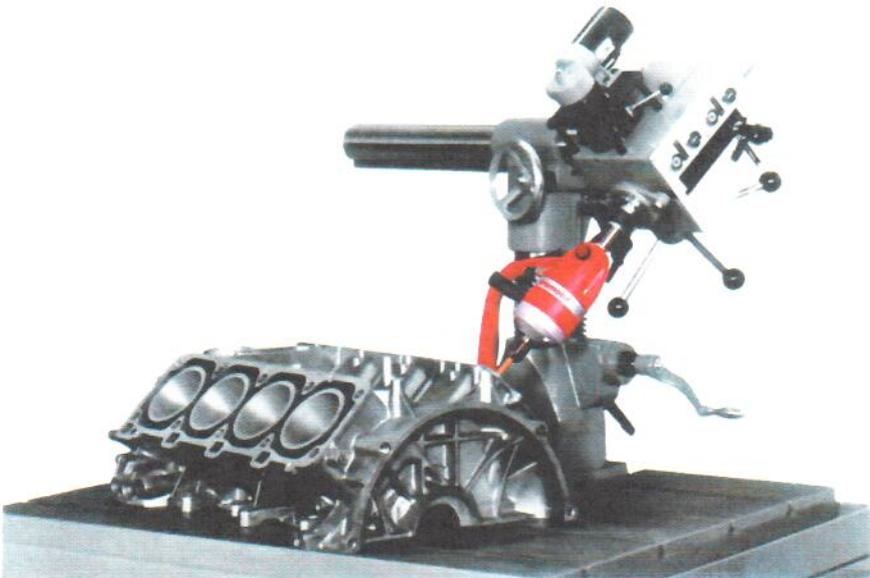
Strong in all positions – horizontal, vertical or diagonal!



With post drill or radial drills, tool breakage is rectified in minutes.



Drill breakage in turbine housing. After just a short pause, machining can continue.



The "fast" motor unit on special machine.



Even greater mobility with magnetic drill stand.

Still more possibilities in manufacturing.

For example for starting holes to be used for wire erosion, eroding hardened steel, eroding carbide metal with special tungsten-copper electrodes and much more.

More than 30 years of experience
in arc erosion.

Questions about *eromobil*
technology or handling?

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