

## Equipment

Heimerle + Meule's own equipment service centre offers a comprehensive and specially designed range of equipment for all surface treatment techniques.

Our products are preferred in R & D departments, schools, universities, institutes and laboratories.

### Benchtop plating units and systems

Benchtop plating units are mainly used for plating single small parts. They are suitable for plating copper, nickel, silver, gold, rhodium and other metals with the exception of chrome.

They are so easy to operate that even newcomers to electroplating can work with them.

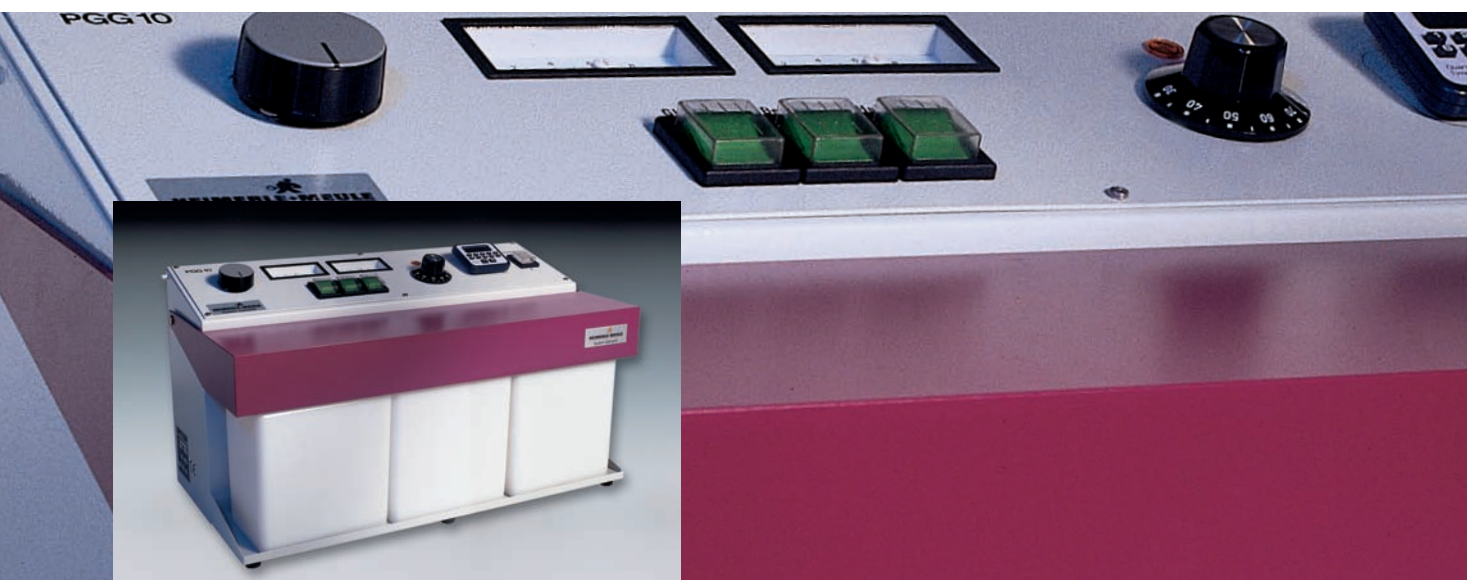
While the small plating units Type PGG 10 1.5 and 3.0 are generally used to plate small one-off parts, Type PGG 20 and PGG 60 units are suitable for processing larger one-off items and small batches.

PGG 10 (1.5 litre)	
Ref. No.	8686 1 400
Dimensions (length x width x height)	500 x 260 x 280 mm
Weight	14 kg
PGG 10 (3.0 litre)	
Ref. No.	8686 1 500
Dimensions (length x width x height)	580 x 300 x 320
Weight	20 kg
PGG 20 (8.0 litre)	
Ref. No.	8686 1 800
Dimensions (length x width x height)	980 x 500 x 360 mm
Weight	45 kg
PGG 60 (15.0 litre)	
Ref. No.	8101 0 614
Dimensions (length x width* x height)	980 x 800* x 510 mm
Weight	71 kg

\* including rinsing tanks

### Electroplating systems

On request we can design and manufacture special systems for any electroplating operation.



### Ultrasonic cleaning units and systems

Ultrasonic cleaning is now a standard method for the pre-treatment of items to be plated. With this process even heavily soiled or complex metal, glass and plastic parts can be quickly and thoroughly cleaned.

With the  
**Minison 120**  
**Minison 220**  
**Minison 320**

Heimerle + Meule offers you a range of ultrasonic cleaning units which meet every requirement in goldsmiths' workshops, medical laboratories and in industry.

On request we can also design and manufacture customised ultrasonic cleaning systems.

MINISON 120	
Ref. No.	8100 9 303 / 8100 9 296*
Dimensions (length x width x height)	205 x 100 x 155 mm
Capacity	0.9 l
MINISON 220	
Ref. No.	8100 9 517
Dimensions (length x width x height)	260 x 160 x 250 mm
Capacity	3.0 l
MINISON 320	
Ref. No.	8100 9 518
Dimensions (length x width x height)	325 x 175 x 305 mm
Capacity	5.7 l

\* Complete with accessories: stainless steel workpiece basket, stainless steel lid, lid with holes for plastic beakers, 2 plastic beakers and 2 mesh baskets for plastic beakers



### Centrifugal hot air dryer HT II

Centrifugal hot-air dryers facilitate the speedy and stainless drying of wet metal, glass or plastic parts.

Thanks to the fast-acting heater built into the lid, this unit dries even complex items without stains and in the shortest possible time.

Centrifugal hot air dryer HT II	
Ref. No.	8688 1 200
Unit dimensions (length x width x height)	320 x 280 x 500 mm
Weight	20 kg

### TFA 120/10 titanium anodizer

Titanium is a metal that forms a durable oxide layer with the ability to refract and absorb light. By varying the thickness of the oxide layer, an array of very decorative colours can be obtained.

With this titanium colouring unit from Heimerle + Meule, existing passive layers can be reinforced by anodic oxidation. Increasing the voltage increases the thickness of the oxide layer. The various colours will appear at specific voltage levels.

With a standard 25 litre process bath, a 120 V rectifier and a safety lid which locks automatically, the TFA 120/10 titanium colouring unit is perfect for achieving a wide range of colours.

Titanium colouring unit TFA 120/10	Electroclaim
Ref No. <b>8687 1 300</b>	Ref. No. <b>8621 2 001</b>
<b>complete with:</b> <ul style="list-style-type: none"> <li>■ Polypropylene tank 460 x 280 x 250 mm incl. locking lid</li> <li>■ Anode and cathode rods</li> <li>■ Agitator</li> <li>■ Suction outlet</li> <li>■ Rectifier 120 V/ 10 A</li> </ul>	<b>complete with:</b> <ul style="list-style-type: none"> <li>■ Recovery cell in PP</li> <li>■ 3 Special foam cathodes</li> <li>■ 4 Anodes</li> <li>■ Self-suction pump 16 l/h</li> <li>■ Flow meter</li> <li>■ Rectifier 6V / 20 Amp.</li> </ul>

Other variations are available on request.

Using the titanium colouring solution developed by Heimerle + Meule and the correct titanium pickle, the TFA 120/10 enables you to obtain immaculate shades of bronze, violet, bright blue steel, blue, yellow, pink and green with the utmost of ease.

### Machinery and equipment for precious metal recovery

Heimerle + Meule develops and manufactures machinery, equipment and chemicals for the on-site recovery by our customers of precious metals from drag-out rinses, spent electroplating baths and diluted stripper solutions.

These products contribute greatly to the rationalization of the treatment processes and pay for themselves within a very short time.

### ELECTROCLAIM

This system is eminently suitable for the recovery of medium and high precious metal concentrations in rinses, spent electroplating baths and stripper solutions. Up to 1500 g of gold can be deposited on the three special cathodes in the unit's electrolytic cell.

These high deposition rates are due to the highly efficient current flow in the recovery cell and to Heimerle + Meule's special cathodes. These features ensure that even very low precious metal concentrations can be recovered almost to the last milligram and in a very short time.

The following colours can be achieved with the titanium anodizer

