



ELECTROLYTIC BATH

Ref. 080490



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Practical, efficient, designed for use in dental mechanics.

Up to three frameworks can be polished at once.

Outside dimensions: technical characteristics:

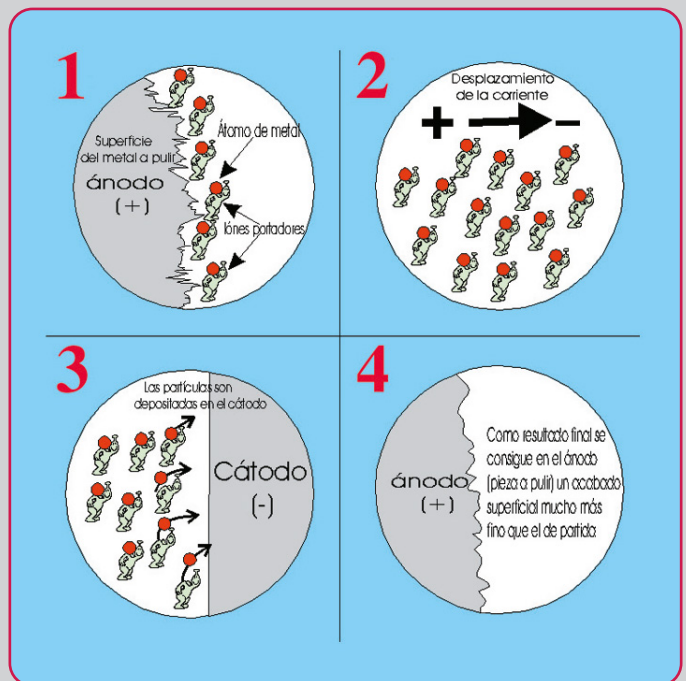
Dimensions	245 x 245 x 135 mm
Weight	5,3 kg
Voltage	230 V, 50/60 Hz
Secondary voltage	16 V
Maximum current	10 A
Circuit breaker	10 A
Timer	0-30 minutos
Tub capacity	2 Litros
Tub height x diam	160 x 145 mm
Tub weight	1,2 kg



Operating principle

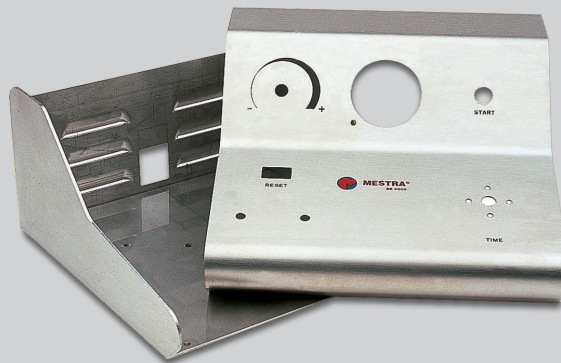
Under a microscope, all metals show a more or less rough surface with protrusions of all types. If they are placed in an electrolytic bath (fig. 1) and connected to an anode a curious thing happens: the electrolyte dissociates itself, producing charged molecules called ions which literally pull atoms off the surface of the metal and combine with them. The particles produced in this way are electrically charged, and the difference in potential between the cathode and anode (fig. 2) moves them gradually towards the cathode. The particles of metal are deposited on the cathode (fig. 3), forming more charged ions, and the cycle starts over. The process ends only when the electricity is cut off.

The areas on the metal with the biggest protrusions have more surface to come into contact with the electrolyte and therefore lose most atoms during polishing. As a result when polishing is completed the surface of the metal is much less rough (fig. 4), and the protrusions are much smoother. This enables it to reflect light more evenly, giving the metal more shine. The excess metal removed from the anode (+) ends up deposited on the surface of the cathode.

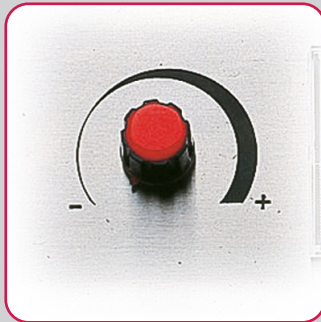


Chassis

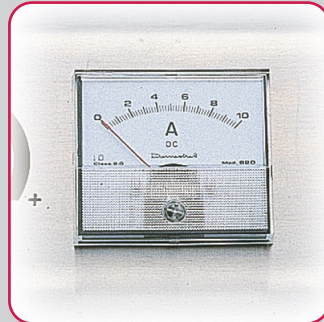
Rounded frame made entirely of stainless steel.



Controls



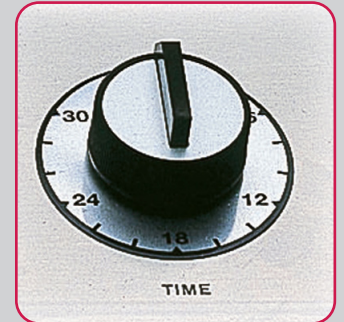
Potentiometer for current adjustment.



Easy-to-read ammeter showing current between anode and cathode.



Circuit-breaker with manual reset to prevent overcurrent.



30 minute timer.

Thermoplastic tank and lid

Tank and lid made of ABS injected thermoplastic. Being an independent part, it is easy and safer to handle for cleaning and maintenance.



Easy-to-remove, simple-to-maintain anode and cathode.



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Our design philosophy is based on three fundamental pillars: the needs of our clients, the observation of the techniques used in dental laboratories and our more than 77 years of experience providing creative and contemporary solutions to the daily problems of professionals in the sector.

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