

## Gesswein

# Gesswein®

For more than three decades, Gesswein has brought the benefits of ultrasonic polishing to mold and diemakers. ULTRAMAX units polish slots, ribs and intricate details faster than you could ever do by hand. Feature fast reciprocation and short stroke for making quick work of the most time consuming tasks. Polish everything from milled to rough EDM surfaces to a mirror finish using all grades of finishing stones, diamond tools, ceramic stones and lapping tools with diamond compound (see pp. 104-105). Choose from four ULTRAMAX units for the right one for your job.

Our Df and SF units are workhorses; built for power and demanding usage. Our MF unit is an economical, versatile unit capable of ultrasonic, mechanical and brushless operations. The UM-1200 Ultrasonic Polisher is the logical choice for intermittent usage at lower power.



# LIMADORAS / AMOLADORAS ULTRASÓNICAS GESSWEIN



A



Tool Set included with purchase

## A. ULTRAMAX<sup>®</sup> DF (Dual-Function) Heavy Duty Polisher

Our most powerful ultrasonic, the DF is the #1 choice for the professional mold polisher. With 45W of max output power, it can handle the most demanding work load and continual use. This dual-function unit gives the versatility of both ultrasonic and mechanical polishing. Supplied with the lightweight, vibration-free UF-9700 ultrasonic handpiece, the DF can also power our full line of Power Hand 3 mechanical handpieces (PH3 adaptor 510-3304 required).

Includes controller, UF-9700 handpiece with 6mm screw thread and the ULTRAMAX tools kit, which consists of 6/4mm tool adaptor #508-3342 (to hold M4 ultrasonic tools on p. 466), handpiece cradle rest and tool box with a 31-piece tool set of four diamond files, three diamond stones, two resin-bonded diamond stones, six ceramic stones, two lapping tools, four flat clamp tool holders, round clamp tool holder, standard handpiece protector sleeve, large beveled handpiece protector sleeve, wrenches, set of earplugs and extra fuse.

Specifications:

Vibration Frequency	20–30kHz	
Stroke Length	4–40 microns	
Max. Output Power	45W	
Electrical	115V or 230V, 1 Ph, 50/60Hz	
Controller Measures	6 <sup>3</sup> / <sub>8</sub> "W x 11"D x 8 <sup>1</sup> / <sub>4</sub> "H	
Handpiece Measures	5"L x 1 <sup>3</sup> / <sub>32</sub> " dia.	

Description	Electrical	Item#
ULTRAMAX DF	115V	500-0210
ULTRAMAX DF	230V	500-0211
Replacement UF-9700 Handpiece		500-0205

## B. ULTRAMAX<sup>®</sup> SF (Single-Function) Heavy Duty Polisher

If you don't need a mechanical handpiece function on your ultrasonic polisher, this single-function unit is for you. Provides the same max output power (45W) as the ULTRAMAX DF and incorporates the same ultrasonic polishing capabilities.

Includes controller, UF-9700 handpiece with 6mm screw thread and the ULTRAMAX tools kit which consists of 6/4mm tool adaptor #508-3342 (to hold M4 ultrasonic tools on p. 466), handpiece cradle rest and tool box with a 31-piece tool set.

Specifications:

Vibration Frequency	20–30kHz	
Stroke Length	4–40 microns	
Max. Output Power	45W	
Electrical	115V or 230V, 1 Ph, 50/60Hz	
Controller Measures	7"W x 8 <sup>1</sup> / <sub>4</sub> "D x 6"H	
Handpiece Measures	5"L x 1 <sup>3</sup> / <sub>32</sub> " dia.	

Description	Electrical	Item#
ULTRAMAX SF	115V	500-0200
ULTRAMAX SF	230V	500-0201
Replacement UF-9700 Handpiece		500-0205

B



## A. ULTRAMAX<sup>®</sup> MF (Multi-Function) Polisher

The Multi-Function ULTRAMAX MF is our most versatile polishing system. It utilizes a high-efficiency microprocessor to deliver power to ultrasonic, brushless DC, and brush-type DC handpieces. Includes an Ultrasonic Handpiece with 36W of continuously variable power for precision reciprocating action.

The DC output provides exceptional power to any of the Gesswein rotary, reciprocating, side-to-side, or belt sander handpieces. The BLDC1 output provides high speed and high torque power to the optional Gesswein BH-60 brushless type rotary handpiece. The ULTRAMAX MF has a digital readout for power level reference on the DC outputs, and also a multi-color load indicator.

ULTRAMAX MF includes controller, Ultrasonic Handpiece (with 6mm thread), tool box, handpiece rest, tool changing wrenches, 1mm and 3mm flat clamp tool holders, 3mm round tool holder and on/off foot switch.

Specifications:

Vibration Frequency	18-26kHz
Stroke Length	4-40 microns
Max. Output Power	36W
Output DC Rotary Tool	5-32VDC, Max. 180W
Output DC Brushless Tool	1,000-50,000rpm, Max. 250W
Electrical	90-240VAC 50/60Hz
Fuse	3A 20mm time-lag
Dimensions	6.75"W x 9.5"D x 5.5"H
Net Weight	5.5 lbs.

Description	Item#
A. ULTRAMAX MF	500-0220
Replacement Ultrasonic Handpiece	500-0222
BH60 50,000rpm Brushless Rotary Handpiece	500-0224
Variable Speed Foot Rheostat for Mechanical Handpieces	500-0221



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## B. ULTRAMAX<sup>®</sup> UM-1200 Ultrasonic Polisher

The most affordable ultrasonic polisher for polishing with diamond tools and ceramic stones. The high quality UM-1200 produces 25,000 cycles per second of longitudinal vibration in a small, comfortable handpiece with an invisible minute stroke of 10 to 35 microns from low to high output levels.

Include controller, UM-1200 handpiece with 8mm screw thread standard accessory set (two sintered and six plated diamond tools and two ceramic stones), one flat clamp tool holder, two round clamp tool holders, on/off foot switch, handpiece cradle rest, bench jig, wrench and hex key.

Specifications:

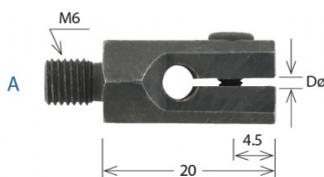
Vibration Frequency	18-25kHz
Stroke Length	10-35 microns
Max. Output Power	36W
Electrical	90-240V, 50/60Hz
Controller Measures	7 1/2"W x 5 1/2"D x 3 1/2"H
Handpiece Measures	5"L x 1 3/16" dia.

Description	Electrical	Item#
ULTRAMAX UM-1200	90-240V	500-1200
Replacement Handpiece	-	500-0101



B

All drawing measurements are in millimeters

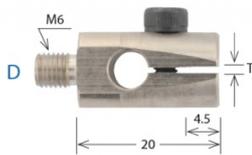
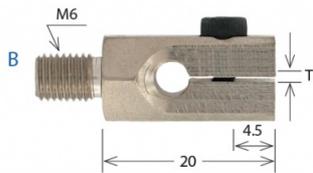


### A. 6mm Thread Round Clamp Tool Holder

For round tools

For Dø (Diameter)	Item#
A. 2.0mm round tool	508-3508
2.35mm (3/32") round tool	508-3509
3.0mm round tool	508-3512*
3.3mm (1/8") round tool	508-3516
4.0mm round tool	508-3520

\*Supplied with ULTRAMAX DF/SF



E



F

## B. 6mm Thread Medium Clamp Tool Holder

For flat tools up to 6.35mm (1/4") wide

For T (Thickness)	Item#
B. 0.5mm flat tool	508-3495
0.8mm flat tool	508-3500*
1.0mm flat tool	508-3502*
1.5mm flat tool	508-3504
2.0mm flat tool	508-3506
3.0mm flat tool	508-3510*
3.3mm (1/8") flat tool	508-3514*

\*Supplied with ULTRAMAX DF/SF

## C. 6mm Thread Adjustable Clamp Tool Holder

For flat tools 0.1mm to 8.0mm wide

For T (Thickness)	Item#
0.1mm to 1.5mm thick	508-3522

## D. 6mm Thread Large Clamp Tool Holder

For flat tools 6.35mm to 15mm wide

For T (Thickness)	Item#
D. 1.0mm flat tool	508-3503
1.5mm flat tool	508-3505
2.0mm flat tool	508-3507
3.0mm flat tool	508-3511
3.3mm (1/8") flat tool	508-3515
4.0mm flat tool	508-3518

## E, F ULTRAMAX® DF/SF Accessories and Replacements

Description	Item#
EE. UF-9700 Handpiece only (6mm thread)	500-0205*
6/4mm Tool Adapter (to hold M4 ultrasonic tools)	508-3342*
Handpiece Cradle Rest	510-1130*
Standard Handpiece Protector Sleeve	500-0208*
F. Variable-Speed Foot Rheostat	500-0206

\*Supplied with ULTRAMAX DF/SF