



GenVac MP3 Series – Epoxy Mounting Vacuum Impregnation System for Metallographic Sample Preparation



ULTIMATE USER-FRIENDLINESS



LEADING DEPENDABILITY AND RELIABILITY



STRICT COMPLIANCE WITH INDUSTRY STANDARDS



STOCKED CONSUMABLES AND SPARES



TRUSTED AFTER SALES TECHNICAL SUPPORT



LIFETIME PRODUCT SUPPORT ADVANTAGE

Description

The upgraded intelligent vacuum impregnation system for metallography - GenVac MP3, allows to set up ninety-nine degassing circles. This epoxy system will be unique because it is exceptional at filling pores and cavities in the sample to enhance the edge retention.

The 4.3 inch color touch panel and graphic display make the parameter setting more intuitively. With eight memory methods, multiple languages, unit conversion and the design of ninety-nine degassing circle, all of your vacuum impregnation needs will be met to the best of your satisfaction. Read more in our [Mega Blog!](#)



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Transparent Vacuum Chamber Design

Precision filling of mounting resin with full perspective observation saves consumables and improve operational efficiency.



Spare Parts and Consumables

Parts and all consumables are readily available in stock and can be acquired directly from NextGen Material Testing by request. Also, we do not use proprietary parts, therefore additional parts can be sourced from local suppliers as needed many years down the road.

Installation

The MP series, although built with advanced technologies, is a simple plug-n-play machine which does not require formal training and installation. The supplied instructional videos do a fine job explaining how to set up and utilize the machine with ease.



Vacuum Impregnation System User-Friendliness

With manual degassing, the user can fill mounting cups at any position in the vacuum chamber.

Vacuum Impregnation System Technical Specifications

GenVac MP3	
Vacuum Pressure	-600 mm/Hg (-0.799 bar/-79.993 Kpa/-11.602 Psi)
Vacuum Pump Motor Power	180W
Pump Flow	50L/min
Vacuum Chamber Size (WxDxH)	11.8" x 11.8" x 11.8" / 30 x 30 x 30 (cm)
Pressure Relief Method	Programmable Pressure Relief
Machine Dimension (WxDxH)	21.25" x 21.65" x 22" / 54 x 55 x 56 (cm)
Weight	99 lbs / 45kg
Power Supply	AC110V/220V-1Ø
Standard Accessories	High Flow Epoxy Resin, Vacuum Pump

Vacuum Impregnation System Consumables

Speedy Epoxy Resin –Heat release during curing. (Curing at room temperature about 45 mins.)
Epoxy resin 950ml + Harden 20ml
Epoxy resin 950ml + Harden 20ml+ Mixer bag



High Flow Epoxy Resin–No heat release during curing. (Curing at room temperature about 24 hrs.)	
Epoxy resin 950ml + Hardener 350ml	
Epoxy resin 950ml + Hardener 350ml+ Mixer bag	
Silicone Rubber Mounting Cup (General). Only bottom is bright	Package (pcs/bag)
Applied to diameter 25mm, Height 25mm (Capacity is about 12ml)	10
Applied to diameter 31.75mm, Height 25mm (Capacity is about 20ml)	10
Applied to diameter 40mm, Height 25mm (Capacity is about 30ml)	10
Applied to diameter 50mm, Height 25mm (Capacity is about 45ml)	10
Silicone Rubber Mounting Cup (High Transparency) Both bottom and surround are bright	Package (pcs/bag)
Applied to diameter 25mm, Height 25mm (Capacity is about 12ml)	10
Applied to diameter 31.75mm, Height 25mm (Capacity is about 20ml)	10
Applied to diameter 40mm, Height 25mm (Capacity is about 30ml)	10
Applied to diameter 50mm, Height 25mm (Capacity is about 45ml)	10



Transparent Acrylic Mounting Ring (Hollow)	Package (pcs/bag)
Diameter 25mm, Height 20mm (Capacity is about 7ml)	10
Diameter 30mm, Height 20mm (Capacity is about 10ml)	10
Diameter 40mm, Height 20mm (Capacity is about 20ml)	10
Diameter 50mm, Height 20mm (Capacity is about 33ml)	10
Transparent Acrylic Mounting Cup	Package (pcs/bag)
Diameter 25.4mm, Height 23mm (Capacity is about 11ml)	50
Diameter 31.75mm, Height 23mm (Capacity is about 18ml)	50
Specimen Clip	Package (pcs/bag)
Stainless circle clip for various metal specimens. Size Ø 10 x 7 H (mm)	100
Plastic circle clip for various non-metal specimens. Size Ø 7 x 6 H (mm)	100
Square mold for PCB specimens. Outer size 20 L x 20 W x 20 H (mm). Inner size 16 L x 2 or 3 W (mm)	200
Square in circle mold for PCB specimens. Outer size 30 L x 30 W x 20 H (mm). Inner size 16 L x 2 or 3 W (mm)	200



Rectangle mold for PCB specimens. Outer size 25 L x 10 W x 20 H (mm). Inner size 20 L x 2 W (mm)	200
Specimen Clip	Package (pcs/bag)
Stainless circle clip for various metal specimens. Size Ø 10 x 7 H (mm)	100

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