

MR-4 Overview:

The MR Series is a robust vibratory bowl finishing machine built to handle continuous duty operation. Hammond Roto-Finish's proven welded-construction design was reimagined in 2011 to simplify manufacturing without sacrificing durability. The MR Series combines that innovative design with high-end features.

The MR-4 is available in five models; Manual, Semi-Auto, Automatic, Accelerated Chemistry, and Flat Bottom. General machine data and features are laid out below.



Machine Features:

Max operating capacity 4.3ft³ (120 L)

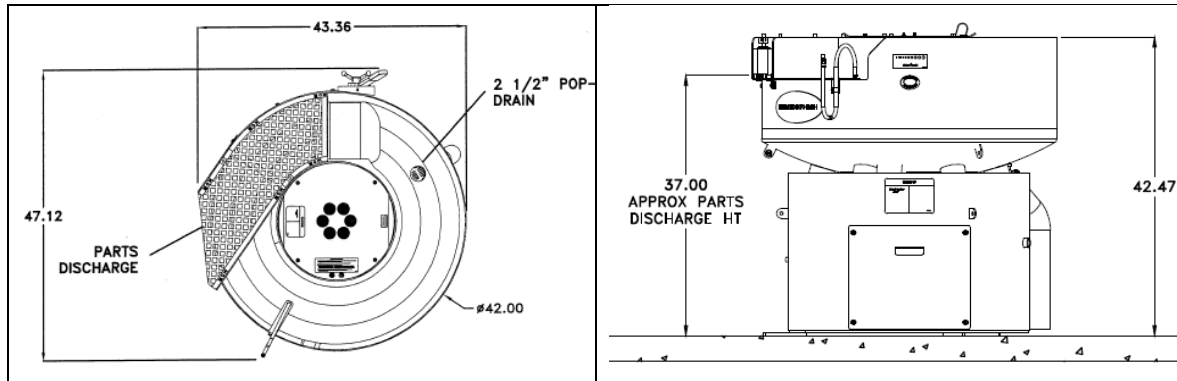
Heavy-duty 3/16" (4.75mm) welded construction

- Main bowl construction component is a pressure vessel tank head
- U shaped process channel with textured, straight wall polyurethane lining
- Polyurethane lining is a minimum 5/8" (15.5mm) thick, with 50% additional in high wear areas
- Bowl is suspended on heavy duty coil springs
- One (1) set of pop-in drains: solid, 1/16" (1.5mm), **1/8" (3mm)** & 1/4" (6.5mm) slots
- Parts separation system with pneumatically operated gate
- One (1) set of urethane-coated separation screens: **3/4" (20mm)** & 1 1/4" (32mm) openings
- Water-driven compound system – mixes between 0% and 5% concentration
- 19 mm socket included for changing eccentric weights
- Integrated lifting eyes
- Grease lubrication
- Available voltages: 230 VAC / 460VAC, 3ph, 60hz
(denotes factory installed – unless specified on order)

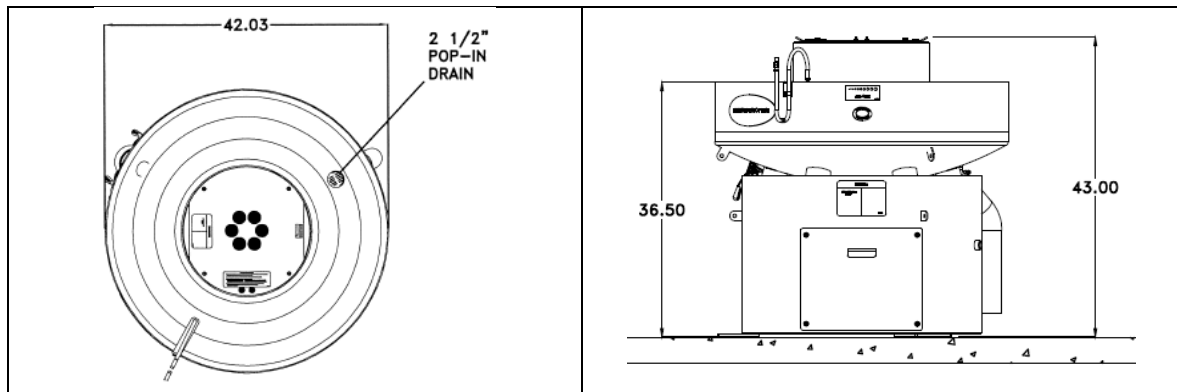
MR-4 Specifications and Dimensions:

Drawings:

MR-4M, MR-4S, MR-4A, MR-4C



MR-4FB



Utilities:

| | Bowl Working Volume | Power | FLA (230V/460V) | Shipping Weight | Maximum Water Pressure | Average Flow Rate | Maximum Flow Rate | Drain |
|---------|---------------------|---------|-----------------|-----------------|------------------------|-------------------|-------------------|--------|
| English | 4.3 ft ³ | 1.21 hp | 4A / 2A | 850 lbs | 35 psi | 8 gal/hr | 2 to 20 gal/hr | (1) |
| Metric | 120 L | 0.9 kW | | 385 kg | 2.4 bar | 30 L/hr | 8 to 75 L/hr | 2" NPT |



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| <input type="checkbox"/> Manual Model: MR-4M | POR |
| This is the baseline machine model. It features manual controls for both motor start and the pneumatically operated gate. | |

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| <input type="checkbox"/> Semi-Auto Model: MR-4S | POR |
| This is the baseline machine model. It features the shut off timer and pneumatically operated gate on the control panel. It can be upgraded to include a VFD. | |
| VFD Upgrade Price | POR |

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| <input type="checkbox"/> Automatic Model: MR-4A | POR |
| This model delivers automation to the MR-4. In addition to the pneumatic gate, it features a PLC with HMI, VFD, and a swinging top eccentric weight. These features work together to automatically process and unload parts from a single Cycle Start button push. | |

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| <input type="checkbox"/> Accelerated Chemistry Model: MR-4C | POR |
| This model builds on the MR-4A. In addition to the automatic processing and unloading, it features a second, electric compound pump, part recipe selection from the HMI, and acid proof construction. These features are required in a machine that produces the high luster finishes generated from accelerated chemistry processes. | |

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| <input type="checkbox"/> Flat Bottom Accelerated Chemistry Model: MR-4FBC | POR |
| This model builds on the MR-4C. It still features a second, electric compound pump, part recipe selection from the HMI, and acid proof construction for high luster finishes generated from accelerated chemistry processes, but is designed with a media unload plug and no screen deck for hand separation of parts. | |

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| <input type="checkbox"/> Flat Bottom Model: MR-4FB | POR |
| This model features an unload plug in the bottom of the bowl for easy media unloading and a shut off timer. It can be upgraded to include a VFD. | |
| VFD Upgrade Price | POR |



| Common MR-4 Options: | USD | |
|--|-----------|-------|
| | MR-4S/A/C | MR-4F |
| <input type="checkbox"/> Special Voltage <input type="checkbox"/> 208VAC / <input type="checkbox"/> 575VAC | POR | |
| <input type="checkbox"/> Automatic Grease Lubricator | POR | |
| <input type="checkbox"/> End of Cycle Light ² | POR | |
| <input type="checkbox"/> RYG Stack Light (A and C models only) ² | POR | N/A |
| <input type="checkbox"/> PVC Coated Wire Mesh Screen (specify size) | POR | N/A |
| <input type="checkbox"/> Specialty Screen | POR | N/A |
| <input type="checkbox"/> Media Diverter | POR | N/A |
| <input type="checkbox"/> Specialty Drain | POR | |
| <input type="checkbox"/> Pneumatic Closable Drain | POR | |
| <input type="checkbox"/> Specialty Urethane Lining | POR | |
| <input type="checkbox"/> Outer curve wall "kicker" | POR | |
| <input type="checkbox"/> Unload Plug 4" Opening | POR | |
| <input type="checkbox"/> Media Classification: includes urethane-coated screen with 1/4" openings | POR | N/A |
| <input type="checkbox"/> Presentation Deck: For use with magnetic separation | POR | N/A |
| <input type="checkbox"/> Specialty Media Classification Screen ¹ | POR | N/A |
| <input type="checkbox"/> Screen-deck mounted Rinse Bar ² | POR | N/A |
| <input type="checkbox"/> Screen-deck mounted Air Knife ² | POR | N/A |
| Settling Tank: 30 gal (110 L) cap. with center baffle ³ | | |
| <input type="checkbox"/> Painted Steel | POR | |
| <input type="checkbox"/> Stainless Steel | POR | |
| Lift Station: 30 gal (110 L) cap. with center baffle, pumps 100ft (30m) horizontally ⁴ | | |
| <input type="checkbox"/> Painted Steel | POR | |
| <input type="checkbox"/> Stainless Steel | POR | |
| <input type="checkbox"/> Bolt-On Flexible Fabric Noise Cover ⁵ | POR | |
| <input type="checkbox"/> Hanging Flexible Fabric Noise Cover ⁵ | POR | |
| <input type="checkbox"/> Base Riser 2" to 24" (2" increments) Higher POR | POR | |
| <input type="checkbox"/> Special Paint | POR | |
| <input type="checkbox"/> Factory Run Off | POR | |

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|---|---|
| ¹ = Depends on the option above | ² = Pick only one from the set |
| Select either only Item ³ or Item ⁴ | ⁵ = Pick only one from the set |