



## MV-2446 2-Vector, 44" Multi-Directional Wet Horizontal MPI Machine

Item #: 10-01-33

### Standard Features:

Color Touch Screen with Virtual Instrumentation and Multiple Dynamic Ranges  
Ultra-Low Range Mode Now Standard with a 1 Amp Resolution  
Typical Repeatability within 1 to 2 Counts of LSD, Even at Low End!  
Typical Useful Low End Down to 10 Amps!  
Automatic Preview Recalibration Keeps Preview within 1-2 Ammeter Counts  
Built in eye adaptation timer feature on the control panel  
240VAC / 480VAC 60Hz 3-Phase Input  
44" Part Capacity Between Headstock and Tailstock with Copper Pads  
4,000 Amp AC - 5,000 Amp HWDC - 6,000 Amp FWDC Selectable Magnetizing Waveforms  
Automatic Decaying AC De-mag  
Adjustable Operator Control Panel for Operator Convenience  
Digital Ammeter with Reading Hold Function, 1% Accuracy  
Pump Operated By a Solid State Contactor  
Ventilator & White Light Switch Located On Operator Control Panel  
Master Power Switch Located on Operator Control Panel  
Shot Selector Switch, Supervisor Settable - Single or Dual Mag Shots  
Automag Sequencing Control with Guarded Foot Switch  
All Sequencing Controlled by Single Electronic Logic Unit  
Equipped with Controlled Break Feature Standard  
Equipped With Power Line Safety Contactor  
Fully Variable - Closed Loop Current Control  
Automatic Maximum Current Limitation  
Solid State Demag Switching - No Reversing Contacts  
Solid State Head / Coil Switching Between Vectors  
16 Ga. Stainless Steel Tank & Hip Bar Construction  
Hard Maple Grates Front and Rear  
Headstock Weight Load is Transferred To a Roller Slide- No Weight on the Cylinder!  
Heavy Duty Pneumatic Headstock with Guarded Foot Switch  
Heavy-Duty 1" x 3" Solid Steel Bed Rails  
Heavy Duty Copper Busswork Throughout, All secondary Cables External  
Heavy Duty Crank Driven Tailstock  
Heavy Duty Gasketed Rear Access Panels with Draw Latches  
Heavy Duty Hinged & Gasketed Front Doors with Twist Latches  
Pneumatic Filter, Regulator, Moisture Separator with Shut Off Valve Included  
Paint Color - Magwerks Tan Industrial Baked Powder Coating  
Operator's / Maintenance Manual (In English)  
Standard Features, Options and Specifications Subject to Change Without Notice



Specifications Subject to Change Without Notice

#### Standard Line Voltage & Current Requirements

VAC: 240, 60Hz, Recommended Service Size: 225, Fuse Type: 225 T/D  
Recommended Wire Size: 3/0 AWG For ≤100 Ft. of Run  
VAC: 480, 60Hz, Recommended Service Size: 125, Fuse Type: 125 T/D  
Recommended Wire Size: #2 AWG For ≤100 Ft. of Run



Shown above with optional 18" Autobath and Conveyor Cutout

### Option Group

#### Autobath Assemblies

- 10-90-01: Axially Mounted Autobath for Parts Up to 44" in Length  
10-90-05: 18" Standard Headstock Mounted Autobath

### Option Group

#### Automation Accessories

- 10-90-03-10: 16" Halo Bathing System Group To Be Used with Either Coil Positioning System  
10-90-03-12: 20" Halo Bathing System Group To Be Used with Either Coil Positioning System  
10-90-03-14: 24" Halo Bathing System Group To Be Used with Either Coil Positioning System  
10-90-38: Automatic Central Conductor Fixture

### Option Group

#### Bath System Upgrades

- 10-90-00-02: Single Stainless Steel Pump Upgrade  
10-90-60-50: External Stainless Steel Basket Strainer Assembly

### Option Group

#### Cabinet Modifications, Standard 54"

- 10-90-60-02: 120" Tank & Frame Add on Option, Std Materials

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| 10-90-60-20:        | 54" Cabinet Lock Set & Tool Operated Draw Latch Set  |
| 10-90-60-40-04:     | Conveyor Cutout Block Off Insert, Stainless Steel  |
| 10-90-60-40-05:     | Conveyor Cutout, for Magwerks 18" Conveyor System (During Fabrication)                             |
| 10-90-60-81-10:     | Heat Exchanger Cutout & Blockoff Plate, Right Hand End (During Fabrication for Later Installation) |
| <b>Option Group</b> | <b>Coil Options</b>  |
| 10-90-75-56:        | Additional 12" Coil and Carriage Add On (Up to 6kA, Select Cable Kit Separatly)                    |
| <b>Option Group</b> | <b>Control Features, MV-2446</b>   |
| 10-01-33-63:        | 6" Color MicroTouch Parts Menu Option with 4.5 Digit Current Control and Reversing DC Demag        |
| 10-01-33-69:        | Reversing DC Demag Option  |
| 10-01-33-79:        | Pusler Function for Toroidal Work  |
| 10-01-33-80:        | Split Coil Channel with 16" Air Core Coil and Carriage   |
| <b>Option Group</b> | <b>Control Features, Shared</b>  |
| 10-90-10-03:        | Remote Mag and Demag Pendant   |
| 10-90-10-04:        | *External Mag Push Button Assembly with 20' Cable  |
| 10-90-10-11:        | Dual Palm Buttons, 54" Cabinet - Adjustable Position, Conventional Buttons                         |
| 10-90-10-12:        | Dual Finger Control, 54" Cabinet - Adjustable Position Opto-Touch Finger Style                     |
| 10-90-10-36:        | Safety Light Curtain Assembly, 16" Tall, Guarding Operator Side Only                               |

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| <b>Option Group</b> | <b>Foot Switch Packages</b>                                 |
| 10-90-10-19-01:     | *Independent, Guarded, Foot Switch Package - Wet Horizontal |
| 10-90-10-19-02:     | Dual, Guarded, Foot Switch Package - Wet Horizontal         |

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| <b>Option Group</b> | <b>Headstock and Tailstock Options, M/V</b>                                      |
| 01-03-48-80:        | MV Tailstock, 6" Coil Extension Kit  |
| 01-03-49-81:        | MV Tailstock, 12" Coil Extension Kit   |
| 01-03-56:           | 4" Taller M/V Tailstock, Pneumatic Clamping with Gear Drive for Travel (17" Hgt) |
| 10-90-39-03:        | 4" Riser Assembly, M/V Tailstock (with Shafts)                                   |
| 10-90-39-04:        | 4" Taller M/V Tailstock Assembly (17" Hgt)                                       |
| 10-90-40-04:        | 4" Taller M/V Headstock Assembly (17")   |

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| <b>Option Group</b> | <b>Heat Exchanger Options</b>                |
| 10-90-60-81-04:     | *4000 BTU Heat Exchanger Option, G280416G050 |
| 10-90-60-81-06:     | 6000 BTU Heat Exchanger Option, G280616G050  |

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| <b>Option Group</b> | <b>Hood Assemblies, 44" &amp; 54" Wet Horizontals</b> |
| 10-90-17:           | 54" Extended Hood Ventilator & White Light            |
| 10-90-18:           | 54" Autobath Hood, Ventilator & White Light           |
| 10-90-19:           | 54" Pneumatically Operated Swing Away Hood            |

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| <b>Option Group</b> | <b>Line Voltage Options for MV-2446</b>                         |
| 10-01-33-85-35:     | 220/230v-50Hz Incoming Power for MV-2446                        |
| 10-01-33-85-36:     | Optional 240/250v-50Hz Incoming Power Electrical Group, MV-2446 |
| 10-01-33-85-37:     | Optional 315v-50Hz Incoming Power Electrical Group, MV-2446     |
| 10-01-33-85-38:     | Optional 380v-50Hz Incoming Power Electrical Group, MV-2446     |
| 10-01-33-85-39:     | Optional 400v-50Hz Incoming Power Electrical Group, MV-2446     |
| 10-01-33-85-40:     | Optional 415v-50Hz Incoming Power Electrical Group, MV-2446     |
| 10-01-33-85-41:     | Optional 440/450v-50Hz Incoming Power Electrical Group, MV-2446 |
| 10-01-33-85-45:     | Optional 575v-60Hz Incoming Power Electrical Group, MV-2446     |

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| <b>Option Group</b> | <b>Poly Grate Upgrade</b>  |
| 08-01:              | 54" UV-Stabilized Poly Grate Set Upgrade for Water and Oil Baths |

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| <b>Option Group</b> | <b>Startup Materials and Accessory Packages</b>                |
| 13-95-07:           | Startup Materials Group, Level 0 - For Wet Horizontals         |
| 13-95-08:           | Startup Materials Group, Level 1 - For Wet Horizontal Machines |
| 13-95-09:           | Startup Materials Group, Level 2 - For Wet Horizontal Machines |

Report Date: 08/28/19

Page: 2



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