

PSAH-545, 54" Single-Vector Wet Horizontal Magnetic Particle Inspection Machine

Item #: 10-01-03

Standard Features:

Color Touch Screen with Virtual Instrumentation and Multiple Dynamic Ranges
 Ultra-Low Range Mode with a 1 Amp Resolution
 Typical Repeatability within 1 to 2 Counts of Least Significant Digit
 Typical Useful Low End Down to 10 Amps!
 Automatic Current Preview Recalibration Keeps Preview within 1-2 Ammeter Counts
 240VAC/480VAC 60Hz 1-Phase Input, Optional Voltages Available
 54" Part Capacity Between Headstock and Tailstock with Copper Pads
 12" Coil For Machines Up To 6,000A - Standard Coils Available Up to 36"
 Selectable AC or HWDC Magnetizing Waveforms
 Automatic Decaying AC Demag
 Fully Variable, Closed Loop Current Control with Maximum Current Limitation
 Equipped with Controlled Break
 Solid State Demag Switching - No Reversing Contact
 Solid State Head / Coil Switching - No Contactors!
 Magnetizing Shot Selector Switch, Supervisor Selectable, Single or Dual Mag Shots
 Pump Operated By Solid State Contactor
 All Sequencing Controlled by Single Electronic Logic Unit
 Automag Sequencing Control with Guarded Foot Switch
 Master Power Switch Located on Operator Control Panel
 Adjustable Operator Control Panel for Operator Convenience
 Equipped With Power Line Safety Contactor
 Ventilator & White Light Switch Located On Operator Control Panel
 Hard Maple Grates Front and Rear - 54" Machine
 16 Ga. Stainless Steel Tank & Hip Bar Construction
 Heavy-Duty 1" x 3" Solid Steel Bed Rails
 Heavy-Duty 1/4" x 2" and Larger Copper Buswork Throughout
 Heavy-Duty 4" Stroke Pneumatic Headstock with Guarded Foot Switch Actuation
 Paint Color - Magwerks Severe-Duty Sandalwood Baked On Powder Coating
 Heavy-Duty Coil Carriage with Sealed Wheels
 Heavy-Duty Crank Driven Tailstock
 Heavy-Duty Hinged & Gasketed Front Doors with Twist Latches
 Heavy-Duty Gasketed Rear Access Panels with Draw Latches
 Pneumatic Filter, Regulator, Moisture Separator with Shutoff Valve
 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: 208, 60Hz, Recommended Service Size: 150, Fuse Type: Time Delay Dual Eleme
 Recommended Wire Size: 1 AWG For ≤100 Ft. of Run
 VAC: 240, 60Hz, Recommended Service Size: 130, Fuse Type: Time Delay Dual Eleme
 Recommended Wire Size: 2 AWG For ≤100 Ft. of Run
 VAC: 480, 60Hz, Recommended Service Size: 70, Fuse Type: Time Delay Dual Elemer
 Recommended Wire Size: 6 AWG For ≤100 Ft. of Run

Line Voltage & Current Requirements with Optional 18V Secondary Output
 VAC: 240, 60Hz, Recommended Service Size: 195, Fuse Type: Time Delay Dual Eleme
 Recommended Wire Size: 2/0 AWG For ≤100 Ft. of Run
 VAC: 480, 60Hz, Recommended Service Size: 110, Fuse Type: Time Delay Dual Eleme
 Recommended Wire Size: 3 AWG For ≤100 Ft. of Run

Options Available:

Option Group 1 Line Frequency Pump Group

50Hz 1-Phase, 1-Pump G50Hz 1-Phase, 1-Pump Group

*60Hz 1-Phase, 1-Pump *60Hz 1-Phase, 1-Pump Group

Group:

Option Group 1 Line Voltage Std

240V-60Hz - Std.: 240V-60Hz Incoming Power Electrical Group

480V-60Hz - Std.: 480V-60Hz Incoming Power Electrical Group

Option Group Autobath Assemblies

10-90-01: 18" Standard Headstock Mounted Autobath

10-90-09: Axially Mounted Autobath for Parts Up to 44" in Length

Option Group Automation Accessories

10-90-03-10: 16" Halo Bathing Group, Add Coil Positioning System Separately

10-90-03-12: 20" Halo Bathing Group, Add Coil Positioning System Separately

10-90-03-14: 24" Halo Bathing Group, Add Coil Positioning System Separately

10-90-38: Automatic Central Conductor Fixture

Option Group	Bath System Modifications
10-90-00-02:	Single Stainless Steel Pump Upgrade
10-90-00-10:	Variable Speed Stainless Steel Centrifugal Pump Group, 1/2 HP 3-Phase
10-90-00-12:	Variable Speed Stainless Steel Centrifugal Pump Group, TWO 1/2 HP 3-Phase Pumps and Controls
10-90-60-50:	External Stainless Steel Basket Strainer Assembly
50Hz 1-Phase, 1-Pump Group	50Hz 1-Phase, 1-Pump Group
50Hz 3-Phase, 2-Pump Group:	50Hz 3-Phase, 2-Pump Group

Option Group	Cabinet Modifications, Standard 54"
02-80-11:	*Add Extra 22.5" LED Cabinet Lights, Per Light
10-90-60-02:	120" Tank & Frame Add on Option, Std Materials
10-90-60-15:	Lock Set for 54" Cabinet (Keyed Alike); This Replaces The Rear Draw Latches and Adds Door Locks
10-90-60-20:	Lock Set & Tool Operated Draw Latch Set, 54" Cabinet
10-90-60-30:	18" Extended Height Stainless Steel Front Splash Guard, 54" Cabinet
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)

Option Group	Coil Options
10-90-75-60:	Additional Non-Switched 6kA 12" Coil and Carriage Add On, Select Cables Separately
13-37-20-01:	0.375" Coil Riser Set
13-37-20-04:	0.75" Coil Riser Set
13-37-20-06:	1.5" Coil Riser Set
13-37-20-08:	3" Coil Riser Set
13-37-20-10:	4" Coil Riser Set

Option Group	Coil Substitution Options, Air Core ≤6kA
04-01-16 Substitution:	16" Coil For Use On Machines Up To 6kA
04-01-18 Substitution:	18" Coil For Use On Machines Up To 6kA
04-01-20 Substitution:	20" Coil For Use On Machines Up To 6kA
04-01-24 Substitution:	24" Coil For Use On Machines Up To 6kA
04-01-26 Substitution:	26" Coil For Use On Machines Up To 6kA
04-01-28 Substitution:	28" Coil For Use On Machines Up To 6kA
04-01-30 Substitution:	30" Coil For Use On Machines Up To 6kA (Casting)

Option Group	Control Features, PSAH-545
10-01-03-46:	External Busswork For Prods, Coils, etc. Includes Remote Pendant.
10-01-03-63:	6" Color MicroTouch Menu with 4.5 Digit Virtual Metering and Reversing DC Demag
10-01-03-69:	Reversing DC Demag Option
10-01-03-77:	Split Push Bars with Dual Pots
10-01-03-78:	Mag Current Range Expander - (Fine Current Control)
10-01-03-84-01:	18 Volt Output Option

Option Group	Control Features, Shared
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
10-90-94:	Bar Code Scanner Input Option for P-2000 Systems, (Bar Codes 128 & 39)

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

Option Group	Headstock and Tailstock Mounted Parts Rests
01-03-05-70:	Quick-Change Receiver for H/S & T/S Mounted Roller Rests
01-03-05-80:	Quick-Change Roller Rest Assembly with 6" x 2" Wheels
01-03-05-81:	Quick-Change Roller Rest Assembly with 8" x 1" Wheels
01-03-05-82:	Quick-Change Roller Rest Assembly with 9" x 1.5" Wheels

Option Group	Headstock and Tailstock Options, 10kA S/V
01-03-26:	Tailstock Assembly, 18.75" OAH HD-OS, S/V, 3" Stroke DUAL ROD Cylinder, Manual Shaft Driven 8" x 10" Contact Plates (Fits 7" Bed)

Option Group	Headstock and Tailstock Options, 6kA S/V
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01-02-03:	Headstock Assembly, +4" Taller, 6kA
01-02-04:	Headstock Assembly, +8" Taller, 6kA
01-02-05:	Headstock Assembly, Non-Extended Base, 6kA For Use with Quick-Change Roller Rests, 19" Overall Height
01-02-06:	Headstock Assembly, Extended Base, 6kA For Use with Quick-Change Roller Rests, 19" Overall Height
01-03-03:	Tailstock Assembly, +4" Taller, 6kA
01-03-04:	Tailstock Assembly, +8" Taller, 6kA
01-03-05:	Tailstock Assembly, 19" OAH, 6kA For Use with Quick Change Roller Rests, 6" Stroke SINGLE ROD Cylinder, Std. Pushplate, Shaft Drive, 7" Bed
10-90-39-02:	Tailstock Riser, 4" Standard
10-90-39-06:	Upgrade to 8" x 10" O/S Contact Tailstock, 18.75" Tall, Crank Driven with Dual Rod Pneumatic Part Clamping Capability
10-90-40-02:	Headstock Riser, 4" Standard
Option Group	Heat Exchanger Options
10-90-60-81-04:	*4000 BTU Heat Exchanger Option, G280416G050
10-90-60-81-06:	6000 BTU Heat Exchanger Option, G280616G050
Option Group	Hood Assemblies, 44" & 54" Wet Horizontals
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
Option Group	Line Voltage Options PSAH-545
10-01-03-85-32:	208v- In 12v Out Using Buck Boost, Incoming Power Electrical Group (w/o A/C)
10-01-03-85-33:	208v- In 18v Out Using Buck Boost, Incoming Power Electrical Group (w/o A/C)
10-01-03-85-35:	220/230v-50Hz Incoming Power without Heat Exchanger
10-01-05-85-30:	2kVA 208v-60Hz Electrical Group Using Standard 240/480 Power Transformer, PSAH-545
10-01-05-85-31:	5kVA 208v-60Hz Electrical Group Using Standard 240/480 Power Transformer, PSAH-545
10-01-05-85-36:	240/250v-50Hz Incoming Power Electrical Group (w/o A/C)
10-01-05-85-37:	315v-50Hz Incoming Power Electrical Group (w/o A/C)
10-01-05-85-38:	380v-50Hz Incoming Power Electrical Group (w/o A/C)
10-01-05-85-39:	400v-50Hz Incoming Power Electrical Group (w/o A/C)
10-01-05-85-40:	415v-50Hz Incoming Power Electrical Group (w/o A/C)
10-01-05-85-41:	440/450v-50Hz Incoming Power Electrical Group (w/o A/C)
10-01-05-85-45:	575v-60Hz Incoming Power Electrical Group (w/o A/C)
Option Group	Poly Grate Upgrade
08-01:	54" UV-Stabilized Poly Grate Set Upgrade for Water and Oil Baths
Option Group	SMTS Metering Packages
11-01-05:	SMTS-25XR Metering Package
Option Group	Startup Materials and Accessory Packages
13-95-11:	Startup Materials Group, Level 0 - For Wet Horizontals
13-95-12:	Startup Materials Group, Level 1 - For Wet Horizontal Machines
13-95-13:	Startup Materials Group, Level 2 - For Wet Horizontal Machines