



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

Standard Features: Item #: **10-01-03**

- 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

- Recommended Wire Size: 1 AWG For ≤100 Ft. of Run
- Recommended Wire Size: 2 AWG For ≤100 Ft. of Run
- Recommended Wire Size: 6 AWG For ≤100 Ft. of Run
- Line Voltage & Current Requirements with Optional 18V Secondary Output
- Recommended Wire Size: 2/0 AWG For ≤100 Ft. of Run
- 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

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



NDT Supply.com, Inc.
7952 Nieman Road
Lenexa, KS 66214-1560 USA
Phone: (913)-685-0675
Email: sales@ndtsupply.com