



**PSF-546 Single Vector Wet Horizontal
6,000 Amp FWDC**

Item #: 10-01-11

Standard Features:

- Color Touch Screen with Virtual Instrumentation and Multiple Dynamic Ranges
- Ultra-Low Range Mode Now Standard with a 1 Amp Resolution
- Typical Shot Repeatability within 1 to 2 Counts of LSD, Even at Low Amperage Shots
- Automatic Recalibration of Dynamic Preview Synchronizes Value within 1 to 2 Counts of LSD
- NFPA 79 Compliant Electrical Panel with Cabinet Light
- Built-In, Adjustable, Operator Eye Adaption Timer
- Typical Useful Low End Down to 10 Amps!
- 240VAC / 480VAC 60Hz 3-Phase Input, 3 Phase Secondary Power Transformer
- 54" Part Capacity Between Headstock and Tailstock with Copper Pads
- 12" I.D. Coil Standard, Optional Coils Available Up to 30"
- Fully Variable - Closed Loop Current Control
- FWDC Magnetizing Waveform, Rated for 6,000 Amps
- Adjustable Operator Control Panel for Operator Convenience
- Master Power Switch Located on Operator Control Panel
- Ventilator and White Light Control Switch Located On Operator Control Panel
- Maximum Current Limitation Safety Built In
- Solid State Head and Coil Switching - No Magnetic Contactors
- Solid State Demag Switching - No Reversing Contactors
- All Sequencing is Controlled by a Single PLC Electronic Logic Unit
- Pump Operated By Solid State Contactor
- Equipped Standard With Power Line Safety Contactor
- Equipped with Controlled Break Feature Standard
- Shot Selector Switch, Supervisor Settable - Single or Dual Mag Shots
- Heavy Duty Solid Copper Buss Work Throughout
- Automag Sequencing Control with Guarded Foot Switch
- Heavy Duty Pneumatic Headstock with Guarded Foot Switch
- Heavy Duty Crank Driven Tailstock
- Heavy-Duty 1" x 3" Solid Steel Bed Rails
- Heavy Duty Coil Carriage with Sealed Wheels
- Heavy Duty Hinged & Gasketed Front Doors with Twist Latches
- Heavy Duty Gasketed Rear Access Panels with Draw Latches
- 16 Ga. Stainless Steel Tank & Hip Bar Construction
- Hard Rock Maple Grates Front and Rear with Screens Standard
- Pneumatic Filter, Regulator, Moisture Separator with Lockout Valve Included
- Paint Color - Magwerks Tan Baked Industrial Powder Coating
- Operator's / Maintenance Manual (In English)

Standard Features, Options and Specifications Subject to Change Without Notice

Option Groups

Option Group

Line Frequency

- 50Hz Line Frequency: 50Hz Line Frequency Optional
- 60Hz Line Frequency - *60Hz Line Frequency Standard

Option Group

Autobath Assemblies

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

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

Magwerks Catalog

Current Product



Specifications Subject to Change Without Notice

Standard Line Voltage & Current Requirements

- VAC: 208, 60Hz, Recommended Service Size: 175, Fuse Type: 175 T/D
Recommended Wire Size: 2/0 AWG - 100 Ft or Less For ≤100 Ft. of Run
- VAC: 240, 60Hz, Recommended Service Size: 150, Fuse Type: 150 T/D
Recommended Wire Size: 1 AWG - 100 Ft or Less For ≤100 Ft. of Run
- VAC: 380, 50Hz, Recommended Service Size: 90, Fuse Type: 90 T/D
Recommended Wire Size: 4 AWG - 100 Ft of Less For ≤100 Ft. of Run
- VAC: 400, 50Hz, Recommended Service Size: 90, Fuse Type: 90 T/D
Recommended Wire Size: 4 AWG - 100 Ft of Less For ≤100 Ft. of Run
- VAC: 480, 60Hz, Recommended Service Size: 75, Fuse Type: 75 T/D
Recommended Wire Size: 4 AWG - 100 Ft of Less For ≤100 Ft. of Run

- Line Voltage & Current Requirements with Optional 18V Secondary Output
- VAC: 208, 60Hz, Recommended Service Size: 225, Fuse Type: 225 T/D
Recommended Wire Size: 3/0 AWG - 100 Ft of Less For ≤100 Ft. of Run
- VAC: 240, 60Hz, Recommended Service Size: 225, Fuse Type: 225 T/D
Recommended Wire Size: 3/0 AWG - 100 Ft of Less For ≤100 Ft. of Run
- VAC: 480, 60Hz, Recommended Service Size: 125, Fuse Type: 125 T/D
Recommended Wire Size: 2 AWG - 100 Ft of Less For ≤100 Ft. of Run

Option Group Bath System Upgrades

10-90-00-02:	Single Stainless Steel Open Impeller Pump Upgrade (Now delivered on all machines)
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
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
10-90-60-40-04:	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, 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, 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, +4" Taller, 6kA For Use with Quick Change Roller Rests, 6" Stroke SINGLE ROD Cylinder, Std. Pushplate, Shaft Drive, 7" Bed, 19" OAH
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, PSF-546

10-01-11-85-35:	Optional 220/230v-50Hz Incoming Power Electrical Group, PSF-546
10-01-11-85-36:	Optional 240/250v-50Hz Incoming Power Electrical Group, PSF-546
10-01-11-85-37:	Optional 315v-50Hz Incoming Power Electrical Group, PSF-546
10-01-11-85-38:	Optional 380v-50Hz Incoming Power Electrical Group, PSF-546
10-01-11-85-39:	Optional 400v-50Hz Incoming Power Electrical Group, PSF-546
10-01-11-85-40:	Optional 415v-50Hz Incoming Power Electrical Group, PSF-546
10-01-11-85-41:	Optional 440/450v-50Hz Incoming Power Electrical Group, PSF-546
10-01-11-85-45:	Optional 575v-60Hz Incoming Power Electrical Group, PSF-546

Option Group Optional Substitute Coils, Air Core Weldment ≤ 6000A

04-03-30 Substitution:	30" Coil, Wet Horizontal MPI Up To 6,000A (Weldment)
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Option Group Poly Grate Upgrade

08-01:	54" UV-Stabilized Poly Grate Set Upgrade for Water and Oil Baths
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Option Group PSF-546, Controls

10-01-11-60:	6" Color MicroTouch Menu Option, NO RDC or VM
10-01-11-63:	6" Color MicroTouch Menu Option with 4.5 Digit ULR V/M & RDC
10-01-11-69:	Reversing DC Demag Option, PSF-546
10-01-11-73:	4kA AC Mag & Demag Option Group, PSF-546 (Must be Equipped with RDC)
10-01-11-74:	5kA AC Mag & Demag Option Group, PSF-546 (Must be Equipped with RDC)
10-01-11-75:	1.5Hz Low Frequency AC Demag Option (Must be Equipped with RDC Option)
10-01-11-77:	Split Push Bars with Dual Pots
10-01-11-78:	Mag Current Range Expander - (Fine Current Control)
10-01-11-xx:	Pulser Function

Option Group Startup Materials and Accessory Packages

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



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