



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



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 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

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

