

## PSF-10010 10,000 Amp FWDC Single Vector Wet Horizontal

Item #: 10-01-20



### 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
- 480VAC 60Hz 3-Phase Input
- 100" Part Capacity Between Headstock and Tailstock with Copper Pads
- 172" Part Capacity With Extension Cabinet Option
- 12" Magnetizing Coil, Optional Coils Available Up to 36" Inside Diameter
- FWDC Magnetizing Waveform
- Digital Ammeter with Reading Hold Function, 1% Accuracy
- Adjustable Operator Control Panel for Operator Convenience
- Fully Variable - Closed Loop Current Control with Controlled Break Feature
- Master Power Switch Located on Operator Control Panel
- Ventilator & White Light Switch Located On Operator Control Panel
- Maximum Current Limitation
- Solid State Head / Coil Switching - No Contactors!
- Solid State Demag Switching - No Reversing Contactors!
- External 500MCM Cable Used in Place of Standard 4/0 For Coil and Head / Tailstock
- No Secondary Cables Through Cabinet, All Terminations are 1-1/2" Solid Copper Bar
- Heavy Duty Copper Buswork Used Throughout
- All Sequencing Controlled by Single Electronic Logic Unit
- Pump Operated By Solid State Contactor
- Equipped With Power Line Safety Contactor
- Equipped with Controlled Break Feature Standard
- Shot Selector Switch, Supervisor Settable - Single or Dual Mag Shots
- Automag Sequencing Control with Guarded Foot Switch
- Heavy Duty Pneumatic Headstock with Guarded Foot Switch Control
- 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 Standard
- Pneumatic Filter, Regulator, Moisture Separator with Shutoff 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: 208, 60Hz, Recommended Service Size: 345, Fuse Type: 345 T/D  
Recommended Wire Size: 4/0 AWG For ≤100 Ft. of Run
- VAC: 240, 60Hz, Recommended Service Size: 300, Fuse Type: 300 T/D  
Recommended Wire Size: 4/0 AWG For ≤100 Ft. of Run
- VAC: 480, 60Hz, Recommended Service Size: 150, Fuse Type: 150 T/D  
Recommended Wire Size: 1 AWG For ≤100 Ft. of Run

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

### Option Group Autobath Assemblies

10-90-05: 18" Standard Headstock Mounted Autobath

### Option Group Automation Accessories

- 10-90-03-02: Automatic Coil Positioning System, 100" Machine
- 10-90-03-02: Automatic Coil Positioning System using Halo Bath Sprayer, Add Halo Group Separately
- 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

<b>Option Group</b>	<b>Bath System Upgrades</b>
10-90-00-02:	Single Stainless Steel Pump Upgrade
10-90-60-50:	External Stainless Steel Basket Strainer Assembly
<b>Option Group</b>	<b>Bed Modification Options</b>
01-01-50:	H/D Support Group for 100" Standard Standard Sized Bed
<b>Option Group</b>	<b>Cabinet Modifications, Standard 100"</b>
10-90-60-01:	60" Tank & Frame Add on Option, Std Materials
10-90-60-03:	24" Cabinet and Bed Extension (To Add 24" of Length Capacity to Machine)
10-90-60-21:	100" 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 18" Conveyor System (During Fabrication)
10-90-60-81-10:	Heat Exchanger Cutout, Right Hand End During Fabrication (For Later H/E Installation)
<b>Option Group</b>	<b>Coil Options</b>
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
<b>Option Group</b>	<b>Control Features, PSF-10010</b>
10-01-20-61:	6" Color MicroTouch Menu Option & RDC, NO VM
10-01-20-63:	6" Color MicroTouch Menu Option with 4.5 Digit Current Control, RDC & VM
10-01-20-66:	Split Coil Channel for Use with Second Coil, PSF-10100 (Will Work with RDC)
10-01-20-69:	Reversing DC Demag Option
10-01-20-73:	5kA AC Mag & Demag Option Group, PSF-10100
10-01-20-75:	1.5Hz Low Frequency AC Demag Option (With RDC Only)
10-01-20-77:	Split Push Bars with Dual Pots
10-01-20-78:	Mag Current Range Expander - (Fine Current Control)
<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
10-90-10-13:	Dual "Palm" Control, 100" Cabinet - Adjustable Position, Conventional Buttons
10-90-10-14:	Dual Finger Opto-Touch Control, 100" Cabinet, Adjustable Position
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)
<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
<b>Option Group</b>	<b>Headstock and Tailstock Mounted Parts Rests</b>
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
<b>Option Group</b>	<b>Headstock and Tailstock Options, 10kA S/V</b>
01-02-11:	Headstock Assembly, +4" Taller, 10kA
01-02-12:	Headstock Assembly, +8" Taller, 10kA
01-02-16:	Headstock Assembly, +8" Taller, 10kA Dual Rod, 4" Stroke
01-02-16:	Headstock Assembly, S/V, 10kA For Use with Q/C Roller Rests, 4" Stroke, Dual Rod Cylinder Pushplate Assemblies, 7" Bed, 18.88" OAH
01-02-25:	Headstock Assembly, 18.75" OAH, 4" Stroke Dual Guided Rod 8" x 10" Push Plate
01-03-11:	Tailstock Assembly, +4" Taller, 10kA
01-03-12:	Tailstock Assembly, +8" Taller, 10kA
01-03-16:	Tailstock Assembly, S/V, 10kA For Use with Q/C Roller Rests, DUAL ROD Cylinder 3" Stroke, 8"x10" Contact Plate Shaft Drive, 7" Bed, 18.88" OAH
01-03-25:	Tailstock Assembly, HD-OS, 10kA S/V, 4" Stroke DUAL ROD Cylinder, AD-3 Gear Box Driven, Rear Crank, 8" x 10" Contact Plates, 18.75" Height (Fits 7" Bed)
<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

**Option Group Hood Assemblies, 100" Wet Horizontals**

10-90-21: 100" Extended Manual Non-Autobath Hood Assembly

10-90-22: 100" Standard Manual Autobath Hood Assembly

10-90-25: 100" Pneumatically Operated Swing Away Hood Frame, Ventilator, Curtain and White Lighting

**Option Group Hood Assemblies, 172" & 192" Wet Horizontals**

10-90-32: 172" Pneumatically Operated Swing Away Hood Frame, Ventilator and Curtain Assembly with White Lighting

**Option Group Optional Substitute Coils, Air Core Weldment  $\leq 10,000A$**

04-02-24 Substitution: 24" Coil, Wet Horizontal MPI Up To 10kA (Weldment)

**Option Group Optional Substitute Standard Coils, Air Core  $\leq 10kA$**

04-02-14: 14" Coil For Use On Machines Up To 10kA (Substitution)

04-02-16: 16" Coil For Use On Machines Up To 10kA (Substitution)

04-02-18 : 18" Coil For Use On Machines Up To 10kA (Substitution)

04-02-20: 20" Coil For Use On Machines Up To 10kA (Substitution)

04-02-24: 24" Coil For Use On Machines Up To 10kA (Substitution)

04-02-26: 26" Coil For Use On Machines Up To 10kA (Substitution)

04-02-28: 28" Coil For Use On Machines Up To 10kA (Substitution)

04-02-30: 30" Coil For Use On Machines Up To 10kA (Substitution)

04-02-36: 36" Coil For Use On Machines Up To 10kA (Substitution)

**Option Group Poly Grate Upgrade**

08-04: 100" UV-Stabilized Poly Grate Set Upgrade for Water and Oil Baths

Image List:



Model above shown with 172: part capacity extension cabinet option.