



*“Get the DC Advantage”*

## About Us

**American Innovative Manufacturing** is the leading manufacturer of battery operated dent pullers, spot welders, and power stations. Founded in 2011 in Spokane, Washington, American Innovative Manufacturing's product line features some of the industry's most **cutting edge and advanced equipment** on the market today. AIM offers powerful, precise, **mobile**, and **affordable** solutions where space and cost constraints are critical in the purchase decision.

AIM is led by an **experienced and professional management** and ownership team. Leading the team is John Hjaltalin, P.E.. John brings more than 30 years of professional business and manufacturing experience to the company. He is surrounded by a team with **years of manufacturing and professional experience**. AIM offers support to existing customers with both consumable and replacement parts, as well as service for existing machines. With an ever changing and evolving industry, **new product development** and improvements are always underway at AIM. Expect to see new and improved products regularly enter production to continue to provide **unique and cost effective solutions** for the auto body repair industry.

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# HYBRID PULSE MIG WELDER

## WORLD'S FIRST BATTERY POWERED PULSE MIG WELDER

*"Featuring AIM's Exclusive "DC IntuPulse Technology"*

\*Patent Pending

### Key Operational Features

- *Battery Powered* for the ultimate portability
- 300+ amp welding output
- Welds 22ga to over 1" material
- New & proprietary *"DC IntuPulse Technology"* featuring square wave output.
- Strong, spatter free and consistent welds on Steel, Aluminum, Silicon Bronze, and Stainless Steel
- Automatically adjusted voltage to ensure consistent weld quality
- Unique versatility: no generator required for use in the field
- Exceptional welding power in a compact and portable package
- Weld for hours without external power
- Built-in heavy duty charging system (110V outlet)
- Weld continuously while charging
- Easy to use and familiar controls for welding current and wire speed
- Designed for all 2" wire spools from 11lbs to 33lbs
- Dual roller wire feed motors for confident and trouble free wire feeding of various metal types



### Standard Equipment

- Batteries preinstalled
- 10 ft high quality 250 amp MIG torch
- 1/0 gauge ground cable with rugged clamp
- 5 pack of contact tips

### Optional Accessories

- Aluminum specific torch
- Dust cover
- Spool gun (estimated availability 1st Quarter 2016)
- Gas Gauge/regulator
- Starter spool of 11lb .035 mild steel wire

### Technical Data

300+ amps welding power

Pulsed MIG

2 - internal 1000+ CCA Group 31 maintenance free batteries

110V 15Amp incoming power

8ft power cord

Fan Cooled

Dimensions: 36L X 19W X 33H inches

250lbs shipping weight

MADE IN THE USA



# HYBRID WELDING STATION (HWS)

## The Original\* Hybrid Squeeze-Type Resistance Spot Welder

\*Patent #5917394

*"Take the Tool to the Project, Instead of Bringing the Project to the Tool"*



### Package Includes

- Hybrid Welding Station
- EZ Change Handle
  - Complete with 3", 10", 20", and Wheelhouse Arms*
- Aluminum Spot Weld Package
  - Complete with 2 clamps & 4-8" Plates, 4-4" Plates & 2 Curved Plates*
- Built-In Tool Storage
- Convenient Welding Gun Holster for easy arm changes
- 10 pack Weld Tips

### Convenient Gun Holster



### The DC Advantage

AIM's ground breaking, patented, OE Approved\*\*, **DC battery based** Hybrid Welding Station has proven to be a **cost-effective**, robust tool for the collision repair industry. This welder is capable of output up to 12,500 Amp's and **only needs a 110V 20 Amp power outlet**. The Hybrid Welding Station is capable of welding all of today's **high strength steels** and is a must for every body shop. Don't spend thousands of dollars wiring your shop for 220V or even 480V! Our patented **battery powered** equipment provides unparalleled **flexibility** in how and where repairs can be made.

# HYBRID WELDING STATION (HWS)

## Operational Features

### EZ Change Handle

- 360 Degree Rotation
- Increased Reach
- Increased Lengths
- Increased Electrode Clearance
- Multiple Interchangeable Arms
- Easy & Fast Arm Changes
- Lightweight
- Replaceable Electrode Tips

Standard 3" Arm on EZ Change Handle



Standard 10" Arm



Standard 20" Arm



Wheelhouse Arm



#### Squeeze Force

@ 120 psi -- 1060 Pounds Force • @ 110 psi -- 935 Pounds Force • @ 100 psi -- 830 Pounds Force • @ 90 psi -- 725 Pounds Force

### Aluminum Spot Welding Super Clamp

*Exclusively Available With Purchase Of The Hybrid Welding System*

With AIM's new Patent Pending Spot Welding Super Clamp, users have a convenient and durable alternative for ALUMINUM repairs. Super Clamp's unique combination of components when used in conjunction with the HWS provide aluminum spot welding capabilities previously thought to be beyond typical repair shop capabilities.

Spot welds have been extensively tested on a variety of aluminum thicknesses and alloys used in automotive manufacturing. Tear tests show exceptional strengths.

US Provisional Patent App. No. 62/074,35



\* Comes with an assortment of **lengths** and **shapes** of weld blades

## Accessories & Package Options

SA-122 HWS Dust Cover



SA-116 Single Side Welding Package



Assortment of Weld Tips



SA-117 Panel Beater Package



## Technical Data

Maximum Amperage	Up to 12,500 amps	Gun Handle & Arms	Machined billet aluminum (not cast) weighs 13.5 lbs
Welding Voltage	14v Max	Standard Gun Arm	4"/4"/1.5" (Length/Reach/Electrode Clearance)
Weld Time Control	Digitally Adjustable	Arm Rotation	360 degree
Welding Current	Pure DC power (not rectified / truncated AC)	Squeeze Force	up to 1060 Pounds Force***
Input Voltage	110 volt/20 AMP	Cabinet Construction	Heavy Duty 12 & 16 Gauge Steel
Primary Power Source	(4) Group 31 Heavy Duty Batteries + 110v chargers	Cabinet Finish	Durable & Visible Bright Orange & Black Powder Coat
Charging System	(4) Integrated Charging Units	Wheels	Semi-pneumatic w/ integrated bearings, solid rubber casters
Welding Lead Length	10 ft	Weight	Appx 500lbs with batteries
Weld Voltage Monitoring	4-Analog Meters	Warranty	1-Year
Weld Voltage Management	Automatic	OEM Performance Specs	Meets or Exceeds**
Weld Voltage Alarm	Audio alarm with automatic lock-out	I-CAR Performance Rqmts	Meets or Exceeds
Spot Weld Duty Cycle	240+ welds/hour*	Assured Performance Cert	Approved tool for multi-manufacturer shop certification
Pulse Mode for High Strength Steels	Yes	Manufacturing Location	Proudly Made in the U.S.A.

\* Tested at factory under controlled conditions

\*\*1250 Hybrid Resistance Spot Welder was OE Approved & Available to Following Manufacturers under SPX OE Contract in US and/or Canada: General Motors, Daimler, Chrysler, Mercedes Benz, BMW, Hyundai, Honda, Kia, Mazda, Isuzu, Mitsubishi, Nissan/Infiniti, Saturn, Subaru, Toyota/Lexus, Volvo, Firestone/Bridgestone, Federal Express, John Deere, Freightliner, Case New Holland, Mack Truck, Melrose, Navistar

\*\*\*Pounds Force measured 8/6/2014



## The Original Patented\* Battery Powered Dent Puller

\*Patent #5516997, Patent Pending #1419847



### SIMPLE **STICK-PULL-TWIST** METHOD

#### Markets Served

- Auto Body Shops
- Classic Car Restoration
- Custom Car Builders
- Hobbyists
- Hot Rod Builders
- Metal Fabricators
- Race Teams



#### Package Includes

- Panel Beater
- Automatic Timer
- Dent Puller Bar
- Magnetic Ground
- Control Handle with Shrink Tip and Electrode Holder
- 5 Pack of Dent Pulling Electrodes
- Battery Included

#### Advantages

The *Panel Beater*™ is the original and only portable **battery-powered** dent puller used in the automotive repair industry. No more pins, no more mig welding and **very little clean-up** make the *Panel Beater*™ a must for any autobody, hot rod, or restoration shop.

##### **FAST**

Repair damaged areas in a fraction of the time of traditional methods

##### **SAFE**

Unlike AC powered pullers, the Panel Beater is sensitive to the OEM protective coatings

##### **EFFECTIVE**

Return on Investment in weeks not years

##### **VERSATILE**

Stretch or shrink metal

##### **PRECISE**

Clean pinpoint repairs

##### **PORTABLE**

Battery powered portability

## Operational Features

### Stick-Pull-Twist Method



**STICK** electrode to repair area



**PULL** metal with pry bar



**TWIST** gun to quickly remove

### Additional Features



Hold Repair Area to Hammer



Use Optional Slide Hammer



Shrink Metal with Shrink Tip



Easy Cleanup

## Accessories & Package Options

PB-104 Electrodes



PB-254 Tool Tray Package



SA-137 Wave Wire Claw PB-244 Slide Hammer



SA-133 Wave Wire



PB-207 Puller Bar



## Technical Data

Maximum Amperage	Up to 2000 amps	Dent Pulling Tool	Versatile pry bar standard
Voltage	14v Max	Metal Shrinking Capabilities	Yes with integrated shrink tip (standard)
Weld Time Control	Adjustable Automatic Timer	Pin/Stud Welding	Yes via the integrated shrink tip
Operating Mechanism	Simple push button operation	Wave Wire Welding	Yes with optional & replaceable wave wire welding tip
Operating Power Source	DC--Commercial Grade Group 31 Maintenance Free Battery	Weight	Approximately 180lbs w/battery (shipping weight 200lbs)
Charging System	Integrated 5 amp Charging Unit (110v Source)	Cabinet Construction	Heavy Duty 12 & 16 Gauge Steel
Control Handle Construction	Durable Aluminum with comfortable form grip	Cabinet Finish	Durable & Visible Bright Orange & Black Powder Coat
Control Handle Cable	10ft lead of 1/0 size cable	Wheels	Semi-pneumatic w/ integrated bearings, solid rubber casters
Ground Magnet	Easy to use magnetic ground cable mounted on 10 ft of cable	Warranty	1-Year
Battery Condition Monitoring	Lighted indicator of charge/charging	OEM Performance	Used by OEM's in their factories in US & Canada
Duty Cycle	Operates all day on a full charge	Manufacturer Location	Proudly Made in the U.S.A.
Dent Pulling Electrodes	Serviceable & Replaceable		

## Extreme Duty Jump Starters and Battery Chargers

AIM is proud to offer its unique line of **commercial grade** power booster/jump starter/chargers. This **PowerStation** line of products expands upon AIM's successful battery powered equipment. AIM has spent several years developing and refining these products in harsh field tested environments. Whether its **large trucking fleets**, to **heavy equipment** to **towing companies**, the AIM PowerStation line of products provides reliable & repeatable jump starting capabilities. The three Power Station products all are built for **heavy duty commercial** use.

**PSHD**  
12 VOLT



**PS12**  
12 VOLT



**PS24**  
12 / 24 VOLT



## Technical Data

- Built for Heavy Duty Commercial use
- Rugged weather resistant design and components
- Multiple jump starts between charging
- Modular charger mount for easy removal for service

- Can be spec'd with Standard Wet or AGM Batteries
- Reverse Polarity Warning System Protection
- Steel construction
- Press mounted fasteners

- 6 Foot power cord with 3-prong plug
- Constructed for ease of maintenance
- Large battery access door
- Wheels mounted with re-usable cap screw



# SUPER POWER STATIONS (PSHD)



## Trailer Light Test Feature



## PSHD

PSHD is designed for Heavy Duty Equipment, Large Trucks, Semis, Buses, RV's, and other applications demanding **12 volt large cold cranking amps** and/or repetitive starting capabilities.

## Markets Served

- Heavy Duty Truck Fleets
- Truck Stops & Service Facilities
- Distribution Centers
- Manufacturing facilities
- Construction Companies
- Heavy Duty Truck/RV/Bus Sales/Service Yards
- Bus Fleets
- School Districts
- Agricultural Operations
- Utility Companies
- RV Campgrounds



## Key Operational Features

- Triple the Amperage with 3 Batteries
- 3000+ CCA Cold Starting Power
- Heavy Duty 10ft 4/0 Leads
- Durable 1400 Amp Clamps
- Rugged and Weather Resistant Steel Construction
- Built-in Self Regulating Charger
- Totally Portable
- 12V DC Accessory Outlet to power cell phone, etc.

## Optional Accessories

- PB-103 Magnetic Light
- Trailer Light Extension Cord
- Convenient Trailer Light Plug & Test System
- PB-253 Tool Tray
- Copper Jump Start Lugs

## Technical Data

Starting Power	3000+ Cold Cranking Amp Cold Starting Power-Heavy Duty 12Volt	Cabinet	12 and 16 gauge steel cabinet w/ easy access to battery compartment
Cables	10 feet of 4/0 cable	Cabinet Finish	Durable black and orange powder coat finish
Clamps	Heavy duty 1200 amp dual feed clamps	Wheels	12" Semi-Pneumatic wheels, (no flat), Ball Bearings, 3/4" Steel Axle
Batteries	3 Each CAP310 Batteries Standard (AGM batteries optional)	Trailer Test System	DOT 7 pin trailer light test plug with independent light circuit switching
Chargers	2 Each self-contained 5-Amp charger(s), AGM compatible	Accessory Plug	12 Volt accessory power plug-in, switched
Charger Cord	6 ft power cord with 3-prong plug (jump starts without being plugged in)	Jump Start Lugs	Male/Female, Positive/Negative battery jump start lugs included
Main Switch	2000 Amp keyed main switch	Tool Tray	Included
Reverse Polarity	Visual & audible warning system		

# SUPER POWER STATIONS (PS24)

## PS24

PS24 provides versatile **repetitive jump starting** and charging capabilities for heavy equipment operating on **24 volts** or medium duty trucks and equipment operating on **12 volts**.

### Markets Served

- Mixed Commercial Fleets & Rental Yards
- Older construction or equipment Fleets (24 Volt)
- Marine
- Recreational Vehicle yards
- Agricultural operations
- Manufacturing facilities



### Key Operational Features

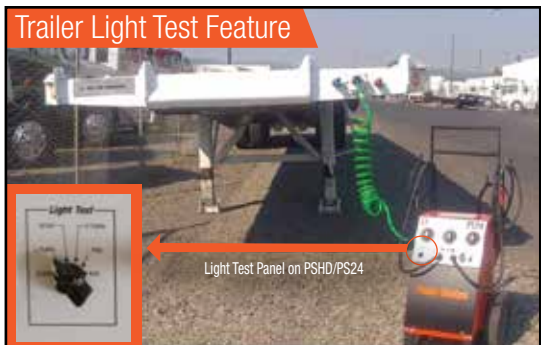
- 2500 CCA Cold Starting Power - 12 or 24 Volt
- Heavy Duty 10ft 2/0 Leads
- Durable 1200 Amp Clamps
- Convenient Trailer Light Plug & Test System
- Rugged and Weather Resistant Steel Construction
- Built-in Self Regulating Charger
- Totally Portable
- 12V DC Accessory Outlet to power cell phone, etc.
- Field Tested

### Optional Accessories

- PB-103 Magnetic Light
- Trailer Light Extension Cord
- PB-253 Tool Tray

### Technical Data

Starting Power	2500+ Cold Cranking Amp Cold Starting Power (12 or 24 volt)	Cabinet	12 and 16 gauge steel cabinet w/easy access to battery compartment
Cables	10 feet of 2/0 cable	Cabinet Finish	Durable black and orange powder coat finish
Clamps	Heavy duty 1000- Amp clamps	Wheels	12" Semi-Pneumatic wheels, (no flat), Ball Bearings, 3/4" Steel Axle
Batteries	2 Each CAP310 Batteries Standard (AGM batteries optional)	Trailer Test System	DOT 7 pin trailer light test plug with independent light circuit switching
Chargers	2 Each self-contained 5-Amp charger(s), AGM compatible	Accessory Plug	12 Volt accessory power plug-in, switched
Charger Cord	6 ft power cord with 3-prong plug (jump starts without being plugged in)	Jump Start Lugs	Optional Male/Female, Positive/Negative battery jump start lugs
Switches	3000-Amp marine grade battery switches; On, Off, 12 Volt and 24 Volt	Tool Tray	Optional
Reverse Polarity	Visual & audible warning system		





## PS12

PS12 was designed to provide reliable **starting/charging capabilities** for commercial lighter duty **12V** applications, principally **automotive related applications** where multiple starts are needed.

### Markets Served

- New and used Auto sales
- Auto repair and service facilities
- Rental fleets
- Malls & large shopping centers
- Public sports and recreational facilities



### Key Operational Features

- 1100 CCA Cold Starting Power
- Heavy Duty 10ft. 1/0 Leads
- Durable 1000 Amp Clamps
- Rugged and Weather Resistant Steel Construction
- Built-in Self Regulating Charger
- Totally Portable
- 12V DC Accessory Outlet to power cell phone, etc.
- Field Tested

### Optional Accessories

- PB-103 Magnetic Light
- PB-253 Tool Tray

### Technical Data

Starting Power	2500+ Cold Cranking Amp Cold Starting Power (12 volt)	Reverse Polarity	Visual & audible warning system
Cables	10 feet of 2/0 cable	Cabinet	12 and 16 gauge steel cabinet body w/ easy access to battery compartment
Clamps	Heavy duty 1000- Amp clamps	Cabinet Finish	Durable black and orange powder coat finish
Batteries	CAP310 Batteries Standard (AGM batteries optional)	Wheels	12" Semi-Pneumatic wheels, (no flat), Ball Bearings, 3/4" Steel Axle
Chargers	Self-contained 5-Amp charger(s), AGM compatible	Accessory Plug	12 Volt accessory power plug-in, switched
Charger Cord	6 ft power cord with 3-prong plug (jump starts without being plugged in)	Tool Tray	Optional
Switches	3000-Amp marine grade battery switches; On, Off		

# PARTS AND ACCESSORIES

## Panel Beater

### Part # Product Description

PB-102	Timer Control Board - 1000/1015/1050
PB-104	Dent Pulling Electrodes - Pack of 5 - (All models except Power Station & HWS)
PB-113	Copper Shrink Tool - Control Handle - 1000/1050/1250
PB-199	Control Handle Package with 5-Pack electrodes, Electrode Holder, Shrink Tip - 1000
PB-201	Electrode Holder - Control Handle - 1000/1050/1250
PB-204	Ground Clamp Adapter Cable - 1000/1050/1250/HWS
PB-205	Magnet Assembly - Includes spring, ground insert and magnet - 1000/1050/1250/HWS
PB-207	Puller Bar - 1000/1050/1250
PB-210	5 AMP Battery Charger (Internal Mount)
PB-217	25-Amp Breaker - 1000/1050
PB-222	Panel Beater Operation Manual - 1000DX
PB-226	Push Button - Control Handle - 1000/1050/1250
PB-229	Solenoid - Single Disk 1000DX Only
PB-244	AIM Slide Hammer-Panel Beater Control Handle Style, 1000
PB-251	On/Off Lighted Rocker Switch-1000/1015/1050/PB
PB-254	Tool Tray Package - Incls. Tool Tray, 6 Finger Slide Hammer Claw(Handle), Slide Hammer, Wave Wire Tip, 1# AIM Wire

## Hybrid Welding Station

### Part # Product Description

SA-50	EZ-Change High Force Handle with 3", 10" and 20" Extension Arms (HWS)
SA-51	Positive Shank-EZ Change Handle
SA-52	Negative Shank-EZ Change Handle Arms
SA-56	EZ-Change Arm Set (3", 10" & 20")
SA-58	EZ-Change Wheel House Electrode
SA-59	Aluminum Spot Welding Replacement Clamp (includes 2 Pins)
SA-60	Aluminum Spot Welding Replacement Plates, Package of 20 (8 short, 8 long, 4 curved)
SA-107	Charger Board (w/ LED) - 1250/HWS
SA-109	QS Handle (W/ Electrode Holder & Switch) - 1015/1050/1250/HWS
SA-110	Electrode Holder - QS Handle - 1015/1050/1250/HWS
SA-113	QS Single Sided Welding Electrode - 1015/1050/1250/HWS
SA-116	QS Single Sided Welding Package
SA-117	Panel Beater Packaged with New HWS
SA-122	HWS Dust Cover
SA-140	Wave Wire Tool - 1000/1050/1250
SA-185	Double Disk Air Solenoid - 1015/1050/1250/HWS- Patented Part
SA-270	Air Filters -Internal 1250/HWS
SA-275	Semi-Round Cap (Pack of 10) - 1050/1250/HWS
SA-276	Bullet Style Cap (Pack of 10) - 1050/1250/HWS
SA-277	Cap Assortment (Pack of 10)-1050/1250/HWS
SA-278	Flat Cap (Pack of 10) - 1050/1250

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