

i4s

PRO SPOT

QUALITY WELDING SYSTEMS

NEW!



With the new i4s, you're ready to weld all of the new 21st Century's High Strength steels.

Pro Spot's next generation Auto Weld software delivers the correct weld energy throughout the weld cycle delivering perfect welds every time.

The i4s WiFi keeps you up to date and connected so you're always ready to push into the future!



True Auto Weld
Weld Faster,
Weld Smarter



WiFi
Connected & Always
Up To Date



On-Board Training
On Demand
Train In Minutes

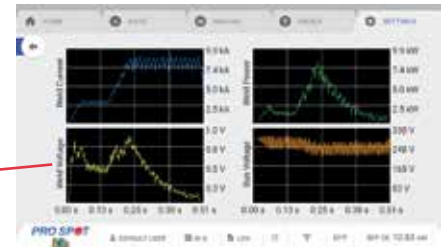
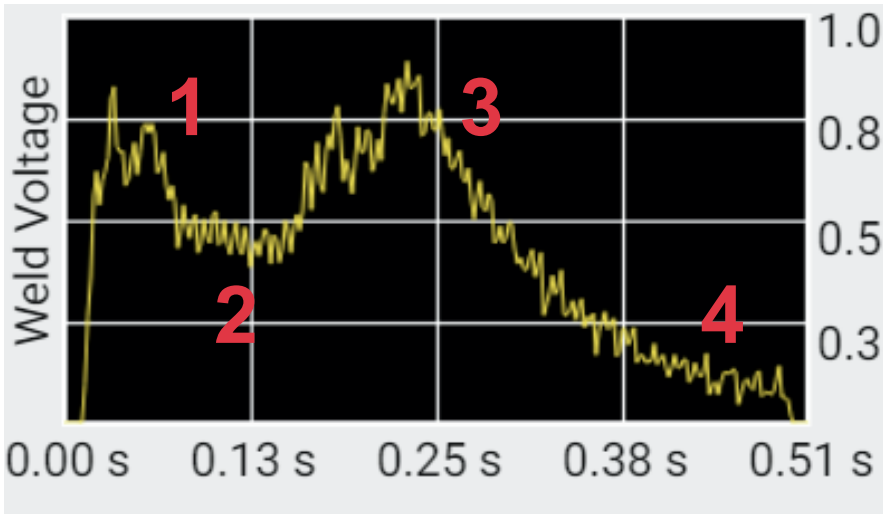
THE ONLY WELDER THAT'S READY FOR THE FUTURE, TODAY!

i4s - Smart Spot Welder

The i4s was designed to directly address the biggest challenges to welding modern high-strength steels. Because these metals are rigid and sensitive to heat, it is important to deliver the right amount of power at the right time to avoid weak welds. Too much heat applied too quickly results in a ring of brittle metal around the weld nugget, reducing the tear-out strength of the joint.

In order to create the strongest weld possible, the i4s uses a unique system to regulate the true energy delivered to the weld, ensuring smooth and consistent nugget growth. Using a combination of thickness and resistance measurements, the welder calculates the total amount of heat energy needed to create a solid joint. The unit's central processor then adjusts current several thousand times per second to ensure that weld power remains stable even in the presence of adhesives, paint, or contaminants on the metal.

This precise control is especially important at the start of the weld since UHSS metals often have very high electrical resistance between the weld surfaces. Trying to force even moderate currents through the metals at early on can lead to almost instantaneous blowout. The i4s solves this issue by constantly monitoring thermal power even during preheat, reducing current if the measured power rises above a limit that is safe for the metal. Once the weld joint is clean and good contact is detected, current is allowed to rise and the weld continues until the energy target is reached. By accounting for all energy added during all stages of the weld, the i4s can accurately gauge when the weld is complete and cut off current before overheating of the metal can occur.



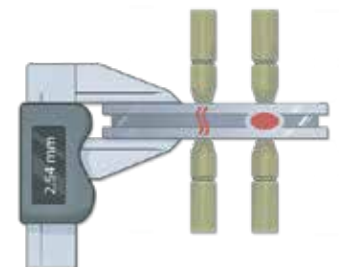
i4s Weld Logs

1. High starting resistance causes voltage spike. Current limited to prevent expulsion.
2. Weld surfaces are clean. Output power begins to rise.
3. Power slopes downward as weld nugget forms and resistance begins to drop.
4. Energy target met. Weld terminates.

Auto-Welding With The i4s



The i4s comes with the latest Auto Welding technology. When using the Auto Weld Mode, the i4s quickly measures the metal thickness using the latest optical technology and senses the material types and thickness and delivers the correct energy throughout the weld nugget formation to ensure a true quality weld.



Always Follow Manufacturer Repair Procedures.

i4s - The Welder's Welder

Pro Spot's i4s is the latest addition to our spot welding line. The i4s continues the tradition of building on our past successes and experiences and using the latest technologies available to create the Smartest 'Auto' spot welder available today.

The i4s provides unlimited access to connected training resources and supports Adaptive Auto Welding. The advanced welding control system senses, reacts and adjusts welding energy based on material composition, thickness and resistance properties.

The automatic extended force range provides the correct electrode tip force pressure required for the UHSS materials of today and tomorrow.



Display Screen On Gun



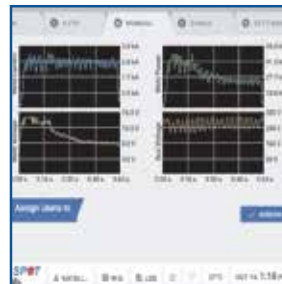
Scroll Wheel For Quick Program Control



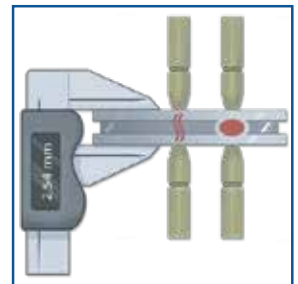
Audio & Video Playback



WiFi Connectivity



Export Logs For Immediate Feedback



Auto Weld

i4s Features

WiFi - WiFi connectivity ensures that your technicians have up-to-date content and training materials.

Export Logs Via Email - Quickly export logs for shop records, insurance requests and immediate feedback.

Touch Screen - Capacitive touch display for ease of navigation, including pinch and zoom capability.

On-Board Gun Display - Utilize the screen to receive immediate feedback and maintain full control of the weld process.

Built In Audio & Video Playback - With built-in speakers, headphone jacks and a high resolution display, training delivery has never been easier.

Full 360 Degree Arm Rotation - Weld in any location with the water cooled arms and ability to rotate 360 degrees.

High Pressure Gun Standard - Squeeze Force Pressure is capable of delivering over 1000 lbs. of squeeze force, and meets or exceeds all OEM requirements.

Single-Sided Welding - 10 different Single-Sided welding applications give you the power and versatility to complete any job.

The New i4s Gun

Complete Control At Your Finger Tips

The all new i4s gun has been completely redesigned to make welding easier and faster. The most noticeable upgrade is the on-gun display screen that allows immediate feedback on every weld and set-up. Changing settings has also been made easier with new finger tip controls. There is no need to go back and forth from the vehicle to the machine to change settings. Quickly make adjustments and keep on welding.



On-Gun Screen



Finger Tip Controls



360° Arm Rotation



i4s Extension Arms

PSW-080

C-Arm Assembly, 80mm Extension



PSW-WH-090

Wheelhouse Arm, 90mm Depth



PSW-520

Extension Arm, 520mm Depth



PSW-CXS1

C to X Arm (optional)



Built-In WiFi

Staying connected is now easier than ever with the i4s' Built-In WiFi. The Built in WiFi allows users to connect to directly with Pro Spot and check for updates and new training materials. That means more time can be spent on repairs yielding a faster cycle time by eliminating the need for technicians to wait around for correct OEM procedures or training.

Instant Training

The i4s comes with a complete set of training videos and pdf files on the i4s. Techs just plug in the ear buds (supplied) and scroll through the easy to follow Introduction and i4s Operation. Techs can be Ready to Weld in an hour or less. Techs are never Out of Date as new videos and information can be accessed and downloaded at any time.

INDUSTRY FIRST!

System Updates Via WiFi

Keeping the i4s up to date is now even easier with the WiFi feature. Just simply connect the machine to the network and scan for updates. When there are any software or training updates you will instantly download them and have access.

INDUSTRY FIRST!

Export Logs Via WiFi

The on board WiFi makes Downloading the completed Weld Logs easier than ever. Just pop in the email address on the screen and the weld logs are instantaneously sent. Record keeping at its best!

INDUSTRY FIRST!



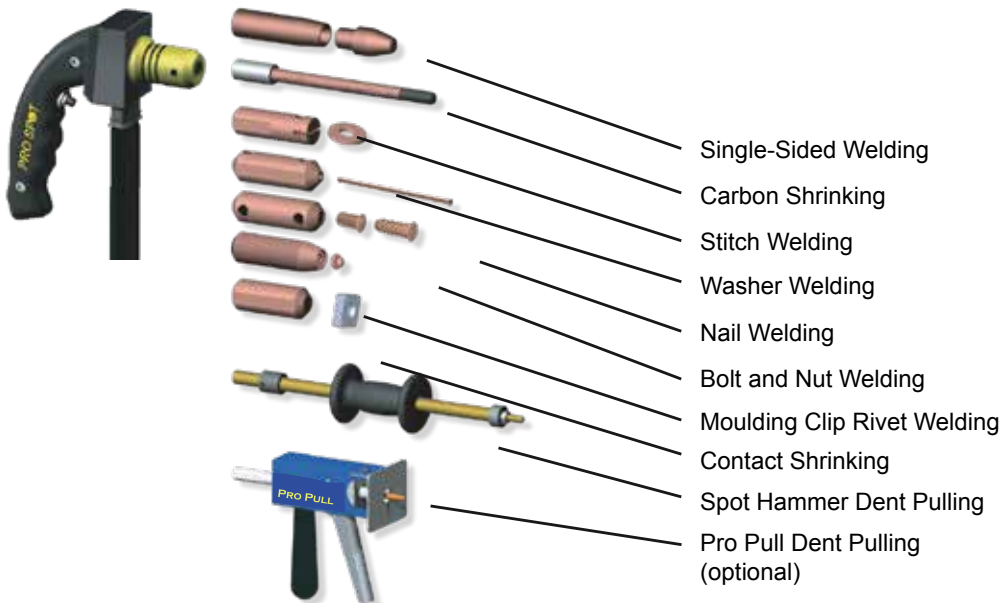
Built-in Headphone Jacks



Built-in Speakers

Single-Sided Welding

The i4s is pre-programmed with over 60 Single-Sided programs.



i4s Accesories and Optional Equipment

PSW-080
C-Arm Assembly,
80mm Extension
(Standard)



PSW-WH-090
Wheelhouse Arm, 90mm Depth
(Standard)



PSW-520
Extension Arm, 520mm Depth
(Standard)



PSW-CXS1
The X-type is designed to reach
the few areas a C-type arm cannot.
(Optional)



PS-025
Weld Cap, A-Cap



Weld Cover
80-0001
(Optional)



PLT-49/A
Tip Dresser
(Optional)



PS-023
Weld Cap, F-Cap



SA-0612
Tool Balancer

i4s Technical Specifications



Input Voltage:	3 Phase 208 - 240V 50/60HZ 400 - 480V 50/60HZ
Welding Amperage:	12,500 Amps (DC)
Cable Length:	Power Cable 30' (10m) Weld Cable 8.75' (2.67m)
Electrode Force:	1,000 lbs.
Liquid Cooling System:	Radiator/Pump Active Loop Cooled To Electrode Tips
Microprocessor:	Wirelessly Upgradeable Software Platform
Protection:	IP 21
System Weight:	385 lbs.

Manufactured by:
Pro Spot International, Inc.



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