



WELDING SOLUTIONS FOR AUTOMOTIVE SEAT ASSEMBLIES

- / Reliable, modular, and easy to use**
- / Compatible with all robot manufacturers**
- / Specialized processes ensure faster welding**
- / Precision arc control for better ignitions and finishes**
- / Consistent, high-quality welds for all joint configurations**



APPLICATION TECHNOLOGIES FOR WELDING SEAT ASSEMBLIES

/ There are numerous challenges when welding automotive seat assemblies. Thin gauge materials in difficult and hard to reach positions are just the beginning. Add in the demands of safety for passengers, adjustable components, and a variety of configurations, and now every seating weld has more complexity than most other welds on the vehicle. This type of demanding welding requires a power source capable of low heat input, consistency, versatility, and minimal spatter. From start to finish the TPS/i meets every seat welding challenge in a single machine.

TECHNOLOGY

/ Fronius has worked with auto manufacturers for decades. Our experience with the ever-changing challenges of seat manufacturing has led us to develop a power source that can meet the demands of today and into the future. Precision welding in such a changing environment requires adaptability. Through software and electronics, we've designed a solution to meet these strict demands. Controlled ignition and arc stops, penetration stabilizers and programmable job settings all help ensure each weld meets the standards you've set.

- Modular - add features as needed
- Reliable - maximum uptime

SPECIALIZED PROCESSES

Pulse Multi-Control (PMC) is our advanced process that builds on pulse GMAW, taking it further than ever before. The Fronius TPS/i uses high-speed data processing to create an adaptable arc to precisely assist droplet detachment. This precision is key to achieving the fast travel speeds, low heat input, and consistent penetration necessary in the automotive industry.

The Fronius TPS/i welding system is perfect for welding high strength steels and other alloys used in the automotive industry. In addition to improvements in arc stability, travel speeds, and consistency, the system can be networked and monitored to fit your production needs.

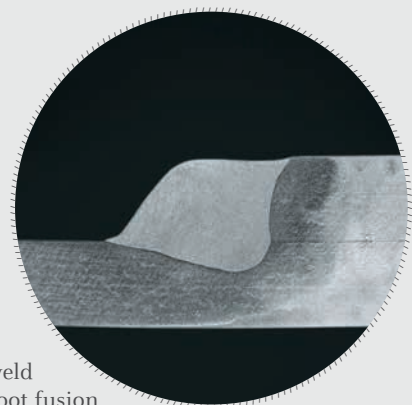
SINGLE SOLUTION FOR A COMPLEX ASSEMBLY

/ TPS/i offers a complete solution for every aspect of automotive seat welding. Adaptable, versatile and ready for the future, TPS/i makes complex seat welding easy.

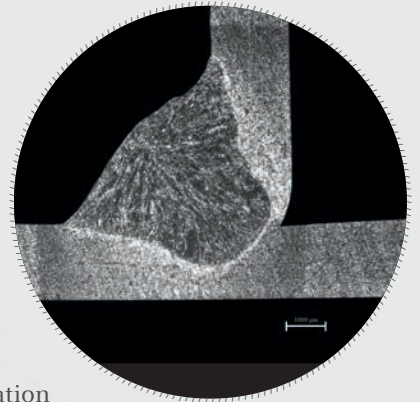


PROCESSES	ADVANTAGES
PMC	/ Cleaner weld seams with minimal spatter
LSC	/ Low heat input
CMT*	/ Perfect ignition using SFI technology (Spatter Free Ignition)
	/ Less distortion
	/ Ideal for thin and ultra-strong sheets
	/ 100% CO ₂ with CMT
	/ Excels with advanced high-strength steels (AHSS)

*hardware upgrade required



Optimal weld face and root fusion

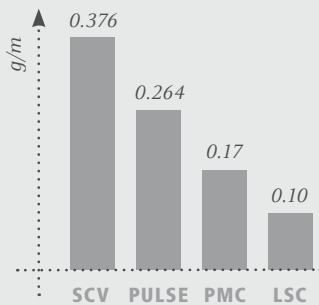


Perfect penetration
without burn through on thin gauge materials.



CLEANER WELDING BY DESIGN

Spatter often occurs in the weld start and stop. Our specialized technology assists in creating spatter free ignitions and controlled stops to ensure clean welds.



Fronius welding solutions

for automotive seat assemblies

Package	Description
Ready-to-weld TPS/i package	TPS 320i Power Source*, PMC software, dust filter, internal robotic interface, interconnecting cables, ground connections and wire feed system (including mounting, drive rolls, and quick connector), torch body, torch cable (built to robot length), torch mount, starter kit & tools. *Other amperages are available
Arc welding monitoring solution:	
Weldcube	Each Weldcube will monitor up to 50 power sources, their weld performance and consumables use and can be linked with additional Weldcubes to expand the network. Ask your Fronius sales team how Weldcube can benefit your production.



Technical Data TPS 320i

Mains voltage	3 x 460
Mains range	342 - 529 Vac
Fuse protection	35A Slow blow
Mains tolerance	-10% / 15%
MIG current range	3 - 320A
MIG voltage range	14.2 - 30.0
Duty cycle 104°F (40°C)	320A @ 40%
	260A @ 60%
	220A @ 100%
Degree of protection	IP 23
Dimensions (LxWxH)*	27.8" x 11.8" x 20.1" 706mm x 300mm x 510mm
Weight	78.9 lbs (34.7 kg)

*These values reflect the welding power supply only

Learn more



www.tps-i.com/en

/ Perfect Welding / Solar Energy / Perfect Charging

THREE BUSINESS UNITS, ONE GOAL: TO SET THE STANDARD THROUGH TECHNOLOGICAL ADVANCEMENT.

What began in 1945 as a one-man operation now sets technological standards in the fields of welding technology, photovoltaics and battery charging. Today, the company has around 3,800 employees worldwide and 1,242 patents for product development show the innovative spirit within the company. Sustainable development means for us to implement environmentally relevant and social aspects equally with economic factors. Our goal has remained constant throughout: to be the innovation leader.

Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com

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Fronius USA LLC

Headquarters
6797 Fronius Drive
Portage, IN 46368
United States
(877) Fronius (376-6487)
sales.usa@fronius.com
www.fronius.us

North East
10421 Citation Drive
Brighton, MI 48116
United States
(810) 844-2800
sales.northeast@fronius.com
www.fronius.us

South East
1271 N Holtzclaw Ave
Chattanooga, TN 37406
United States
(423) 697-1777
sales.southeast@fronius.com
www.fronius.us

South Central
8715 Fallbrook
Houston, Texas 77064
United States
(219) 734-5500
sales.southcentral@fronius.com
www.fronius.us

California
2900 Adams
Riverside, CA 92504
United States
(219) 734-5500
sales.california@fronius.com
www.fronius.us

