

/ Perfect Welding / Solar Energy / Perfect Charging



# TPS/i

The smart welding system with integrated welding data documentation



# PULSE TODAY, CMT TOMORROW. ONE SYSTEM FOR ALL PROCESSES.

Thanks to its modular design and the ease with which the system can be extended, the TPS/i is ideal for a wide range of manual applications. It is available in the following power categories: 270, 320, 400, 500, and 600 A.

The various welding packages offer even more flexibility, with the advantage that the operator can switch the individual processes with speed and ease depending on the application. Regular software updates add to the functional scope offered by the system.



What's your  
welding challenge?

Let's get connected.



# THE BENEFITS OF THE TPS/i

## COST SAVINGS



- / One welding system for all applications
- / Long service life of wearing parts

## SAFETY



- / Compliance with the EN 1090 standard
- / Compatibility with Industry 4.0
- / Modular system that can be adapted to future requirements

## SERVICE



- / International service network
- / Quick support to keep downtime to a minimum
- / Customized services



## ROBUST TOUCH DISPLAY

- / Informative plain-text display
- / Suitability for building sites and ease of use
- / 30 different languages available



## WELDING PACKAGES – AVAILABLE AS UPGRADE OPTIONS AT ANY TIME

- / The perfect welding package to suit any application
- / Available packages: Standard / Pulse / LSC / PMC / CMT



## RANGE OF PREMIUM TORCHES

- / A range of gas-cooled or water-cooled torch designs – Standard, PullMig, and PullMig CMT
- / Available in Standard, Up/Down, or JobMaster versions, or with an optional potentiometer
- / Smart cooling concept that prolongs the service life of wearing parts



## WELDCUBE – WELDING DATA DOCUMENTATION (OPTIONAL)

/ WeldCube is a software solution for data management during welding. This browser-based application can be used for documentation, analysis, and preparation of connected Fronius welding systems, and it makes it possible to view them on all devices.

For more information visit [www.fronius.com/weldcube](http://www.fronius.com/weldcube)



## WELDCONNECT APP

- / Can be used to identify the correct welding parameters
- / Can transfer jobs directly to the TPS/i



# TECHNICAL DATA



	TPS 270i C	TPS 320i C*	TPS 400i	TPS 500i	TPS 600i
Mains voltage	3x 400 V	3x 400 V	3x 400 V	3x 400 V	3x 400 V
Mains fuse	16 A	35 A	35 A	35 A	63 A
Grid frequency	50-60 Hz				
Mains voltage tolerance	+/- 15 %				
Cos phi	0.99				
MIG/MAG welding current range	3-270 A	3-320 A	3-400 A	3-500 A	3-600 A
10 min/40°C (104°F) 40% duty cycle	270 A	320 A	400 A	500 A	600 A
10 min/40°C (104°F) 60% duty cycle	220 A	260 A	360 A	430 A	600 A
10 min/40°C (104°F) 100% duty cycle	190 A	240 A	320 A	360 A	500 A
Open circuit voltage	66 V	71 V	73 A	71 A	71 A
MIG/MAG working voltage	14.2-27.5 V	14.2-30 V	14.2-34 V	14.2-39 V	14.2-44 V
Degree of protection	IP23				
Dimensions L x W x H	687 x 276 x 445 mm	706 x 300 x 510 mm			
Weight	32.7 kg	35.8 kg	36.45 kg	38 kg	50 kg

\* also available as a split version.

WELDING PACKAGE **STANDARD**

WELDING PACKAGE **LSC**

WELDING PACKAGE **PULSE**

WELDING PACKAGE **PMC**

WELDING PACKAGE **CMT**

AREAS OF APPLICATION	STANDARD	LSC	PULSE	PMC	CMT
Sheet thickness up to 3 mm	●●●●	●●●●	●●●●	●●●●	●●●●
Sheet thickness between 3 and 6 mm	●●●●	●●●●	●●●●	●●●●	●●●●
Sheet thickness above 6 mm	●●●●	●●●●	●●●●	●●●●	-
Welding in position	●●●●	●●●●	●●●●	●●●●	●●●●
Root pass process	●●●●	●●●●	●●●●	●●●●	●●●●
Welding with 100% CO <sub>2</sub>	●●●●	●●●●	-	-	●●●●
Spatter eradication	●●●●	●●●●	●●●●	●●●●	●●●●
MATERIALS					
Steel	●●●●	●●●●	●●●●	●●●●	●●●●
CrNi	●●●●	●●●●	●●●●	●●●●	●●●●
Aluminum	●●●●	●●●●	●●●●	●●●●	●●●●
Special materials	●●●●	●●●●	●●●●	●●●●	●●●●
ASSISTANCE SYSTEMS					
Penetration stabilizer		✓		✓	
Arc length stabilizer				✓	

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## 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 4,550 employees worldwide and 1,241 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](http://www.fronius.com)

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