

/ Perfect Welding / Solar Energy / Perfect Charging



SHIFTING THE LIMITS

TPS 320i / 400i / 500i / 600i

/ MIG/MAG welding system



/ The TPS/i is a universal genius, available in the 320 A, 400 A, 500 A and 600 A power classes. It was conceived and designed from first principles, from the ground up. As a result, it has decisively improved the welding properties, optimised the communication between man and machine, and perfected the handling.

IMPROVEMENT

/ Superior welding properties with new arc processes: LSC, a low-spatter and extremely stable dip-transfer arc process. PMC, a fast and reliable pulsed-arc process. With attributes that no other welding machine comes anywhere near to matching.



INDIVIDUALITY

/ Upgrades are extremely easy to perform, from a USB stick or the Internet. For new weld processes, characteristics, applications, firmware updates etc. etc.



INTERACTION

/ The graphical user interface makes the machine easy and intuitive to operate. It is extremely robust, and users can operate it even with their gloves on.



TECHNICAL DATA

	TPS 320i* / 320i C*	TPS 400i*	TPS 500i*	TPS 600i
Mains voltage	3 x 400 V			
Mains fuse protection	35 A slow-blow			63 A
Mains-voltage tolerance	+/- 15 %			
Mains frequency	50 / 60 Hz			
Cos Phi	0.99			
Welding amperage range (MIG/MAG)	3 - 320 A	3 - 400 A	3 - 500 A	3 - 600 A
Welding current at 10 min/40 °C (104 °F)	40% 320 A / 60% 260 A / 100% 240 A (220 A**)	40% 400 A / 60% 360 A / 100% 320 A	40% 500 A / 60% 430 A / 100% 360 A	60% 600 A / 100% 500 A
Output voltage (MIG/MAG)	14.2 - 30.0 V	14.2 - 34.0 V	14.2 - 39.0 V	14.2 - 44.0 V
Open-circuit voltage	73 V (71 V**)	73 V	71 V	71 V
IEC Ingress Protection rating	IP 23			
EMC emissions category	A			
Dimensions L x W x H	706 x 300 x 510 mm / 27.8 x 11.8 x 20.1 in.			
Weight	35 kg / 77.16 lb (35.8 kg / 78.93 lb**)	36.5 kg / 80.47 lb	38 kg / 83.78 lb	49 kg / 108.03 lb

* also available as MV version

** 320i C



/ Radically new cooling concept, right through to the gas nozzle of the torch. For cool, precise working, and longer endurance times of wearing parts.



/ Same control functionality on the torch as on the display. Ideal when working far away from the power source.



/ The Fronius System Connector serves as a central connection-point for all media. It lets users lock the hosepack simply and safely, with no tools, to ensure a guaranteed defined current transfer.

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WE HAVE THREE DIVISIONS AND ONE PASSION: SHIFTING THE LIMITS OF POSSIBILITY.

/ Whether welding technology, photovoltaics or battery charging technology – our goal is clearly defined: to be the innovation leader. With around 3,000 employees worldwide, we shift the limits of what's possible - our record of over 1,000 granted patents is testimony to this. While others progress step by step, we innovate in leaps and bounds. Just as we've always done. The responsible use of our resources forms the basis of our corporate policy.

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

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