

/ Perfect Welding / Solar Energy / Perfect Charging



SHIFTING THE LIMITS

TRANSPORT 1500 / 1500 RC / 1500 TIG

/ Rod electrode + TIG DC welding



/ The Fronius “resonance concept” was developed for rodelectrode welding. Assisted by resonant intelligence, the arc directly influences the power. Every peculiarity of the arc elicits an instant response. The result is an arc that is both perfect and constant, at all times, leading in turn to superlative welding properties.

UTILISATION

INTELLIGENT – FOR JOBS GREAT AND SMALL

/ This machine series has been redesigned from the ground up. Not only the technology sets brand-new standards - the construction design does too: extremely sturdy and stable, yet light and portable. Originally aimed at the craft and workshop sectors, in the field-trials the machines soon turned out to be true “maestros” that prove their entire capability under even the toughest industrial conditions.

/ The machines are designed for use with all types of electrode, even the most challenging. Steel, high-alloy steels and aluminium are all suitable base metals. This versatility makes these machines highly sought-after in every sector of industry.



/ Lightweight and portable, and so right at home on every worksite.



/ Systemcase 1500 TIG



HANDLING

GOOD TO WORK WITH

/ The resonant MMA machines are true professionals. This strikes you the very first time you use them. They are highly user-friendly, sturdy, portable and extremely powerful. All the machines are easy to operate; the control panels are clearly laid out and located in a protective recess.

COST-EFFICIENCY

A GOOD DEAL

/ If you opt for a machine with a resonance inverter, you'll be making a very good investment indeed. Because every single one of them is a model of cost efficiency. To begin with, there is the long service life given them by their sturdy construction, high-grade components and the extensive long-run testing they have undergone. Then comes their tremendous power, not to mention their high efficiency, low open-circuit power and thus low electricity costs.

SAFETY

ALL INCLUSIVE

/ It almost goes without saying that every Fronius machine fulfils all safety standards and has to pass a maximum of testing. The following features thus come as matter of course: S and CE marks, to EN 60 974/1 and EN 50 199, and degree of protection IP 23 against water and foreign bodies. Both an absolute "must" when working out in the field.



/ MMA welding up to 140 A and extra TIG function up to 150 A.



/ MMA welding up to 140 A and extra TIG function up to 150 A, plus remote-control connection.



/ MMA welding up to 140 A, perfect TIG welding up to 150 A, gas solenoid valve and remote-control connection.

WELDING PROPERTIES

RESONANT INTELLIGENCE = IDEAL CHARACTERISTIC

/ Hand-in-hand with the hardware, the resonance concept makes possible a near-perfect approximation to the principle of the ideal characteristic in MMA welding. Hence the name: resonant intelligence.

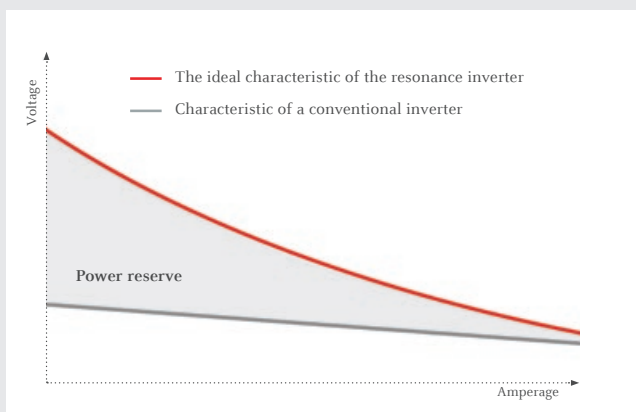
/ And it is precisely this resonant intelligence which is the distinguishing feature of this new generation of inverters. For thanks to uninterrupted feedback from the arc, an ideal characteristic is possible with even the “trickiest” electrodes. Not only possible, but guaranteed. There’s no other machine that does it better. Anywhere in the world.

/ But it’s not just the characteristic that is ideal - the welding properties are superb, too. To take just one example: 4 mm Cel electrodes, which had been reckoned to be unweldable on such small machines, can now be welded quite easily. Without any problems. At up to 140 A.

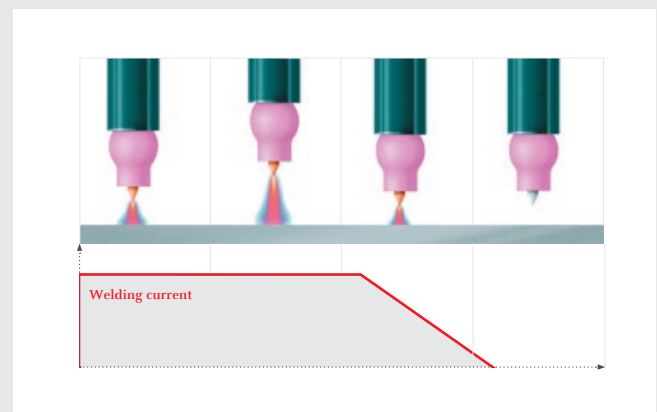
/ But this is still not all that is remarkable about the new machines – they are brimming with functions that make welding more pleasant. Like TIG Comfort Stop (TCS), for example, which stops the arc breaking at the end of the weld in TIG welding. A defined movement of the welding torch causes the welding current to drop automatically.

/ Also: TIG touchdown ignition – microprocessor-controlled ignition sequence for precise and dependable working; TIG pulsed-arc function for better control of the weld-pool in out-of-position work and for gapbridging; Hot Start makes it easier to ignite electrodes, and finally Arc Force Control for problem-free welding of coarse-droplet electrodes.

/ The machines are also cellulose-compatible, even in the vertical-down position. Amazing, all that these little machines can do!



/ The resonance concept makes possible a near-perfect approximation to the principle of the ideal characteristic.



/ TIG-Comfort-Stop: A defined movement of the welding torch with regard to the workpiece causes the welding current to drop automatically.

TECHNICAL DATA

		TP 1500	TP 1500 RC	TP 1500 TIG
Mains voltage + / - 15 %, 50/60 Hz		230 V	230 V	230 V
Mains fuse protection (slow-blow)		16 A	16 A	16 A
Primary continuous current (100 % d.c.)		16 A	16 A	16 A
Cos phi		0.99 (140 A)	0.99 (140 A)	0.99 (140 A)
Efficiency		87 % (80 A)	87 % (80 A)	87 % (80 A)
Welding-current range (continuous)	Electrode	10 - 140 A	10 - 140 A	10 - 140 A
	TIG	10 - 150 A	10 - 150 A	10 - 150 A
Welding current at				
10 min/40°C/104F	25 % d.c.	150 A	150 A	150 A
10 min/40°C/104F	35 % d.c.	140 A	140 A	140 A
10 min/40°C/104F	100 % d.c.	80 A	80 A	80 A
10 min/25°C/77F	45 % d.c.	140 A	140 A	140 A
10 min/25°C/77F	100 % d.c.	100 A	100 A	100 A
Open-circuit voltage		92 V	92 V	92 V
Standardised operating voltage	Electrode	20.4 - 25.6 V	20.4 - 25.6 V	20.4 - 25.6 V
	TIG	10.4 - 16.0 V	10.4 - 16.0 V	10.4 - 16.0 V
Degree of protection		IP 23	IP 23	IP 23
Type of cooling / Insulation category		AF / B	AF / B	AF / B
Dimensions L x W x H mm Inches		315x110x200	315x110x200	315x110x200
		12.41x4.33x7.88	12.41x4.33x7.88	12.41x4.33x7.88
Weight		4.7 kg/10.3 lb	4.7 kg/10.3 lb	4.7 kg/10.3 lb



CHECKLISTE

GENERAL	STD	RC	TIG
Anti-stick function	●	●	●
Touchdown ignition	●	●	●
V-down-compatible welding of CEL electrodes	●	●	●
Remote-controllable		●	●
Gas-test function			●
Generator-compatible	●	●	●
Hot-Start function	●	●	●
Microprocessor control	●	●	●
Dust filter	●	●	●
Temperature-controlled fan	●	●	●
TIG Comfort Stop			●
Continuous weldingcurrent adjustment via torch			●
Overtemperature protection	●	●	●

ADJUSTABLE PARAMETERS	STD	RC	TIG
Arc force	●	●	●
Falling characteristic	●	●	●
Continuously adjustable welding power	●	●	●
TIG pulsed-arc			●

INDICATION OF	STD	RC	TIG
Operating-mode	●	●	●
Mains voltage monitoring	●	●	●
Overtemperature	●	●	●

- TP 1500
- TP 1500 RC
- TP 1500 TIG
- series

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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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