



TransPocket 1100 / 1200
TransPocket 1500 / 1500 RC / 1500 TIG

Rod electrode + TIG DC welding



From now on, intelligence is the measure of all things

GENERAL REMARKS

Resonant intelligence – the new welding standard

Just imagine you're driving down a wide, more-or-less straight highway. Every so often, there's a gentle bend in the road, or a slight gradient up or down. And then imagine doing this with cruise-control. You've set the ideal speed, and the system automatically increases or decreases the engine power to keep the car moving along at exactly this speed - making your journey much more pleasant and smooth. Welding with resonant intelligence is just like this. It defines the ideal characteristic, and this remains ideal – no matter what happens to the conditions in the background. There's only one way you can really describe a capability like this - and that is "above-averagely intelligent". And this is the yardstick that inverters will be measured against in future.

The Fronius "resonance concept" was developed for rod-electrode 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.

Change of generation

The classic inverter is a thing of the past - "resonant intelligence" is the name of the new standard for MMA welding machinery. Fronius have initiated this generational change by launching five machines at once:

TransPocket 1100 / 1200 / 1500 / 1500 RC / 1500 TIG.

In addition, Fronius also offer "system suitcases" - meaning welding machines that come with a complete set of welding workplace equipment: Electrode cables, earth cables, hand-shield, wire brush and de-slagging hammer.



TransPocket 1500 TIG system suitcase

Intelligence and capability go hand-in-hand

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.

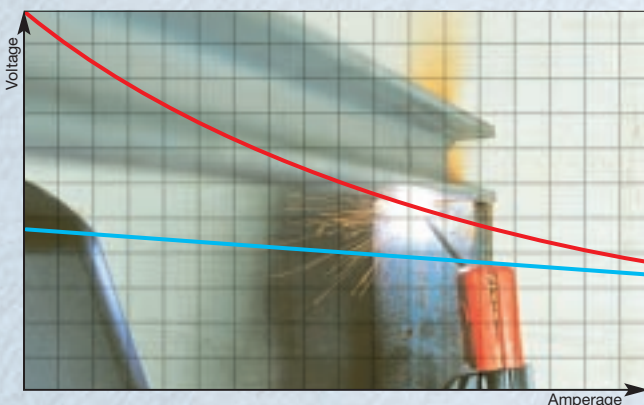
And so on...

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 gap-bridging; Hot Start makes it easier to ignite electrodes, and finally Arc Force Control for problem-free welding of coarse-droplet electrodes.

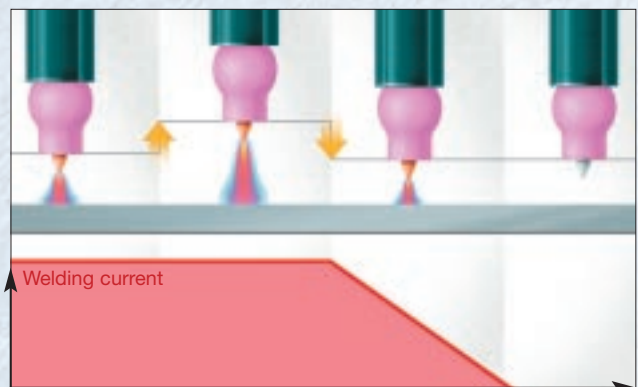
The machines are also cellulose-compatible, even in the vertical-down position. Amazing, all that these little machines can do!

— The ideal characteristic of the resonance inverter
— Characteristic of a conventional inverter



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

TCS
TIG-COMFORT **STOP**



A defined movement of the welding torch with regard to the work-piece causes the welding current to drop automatically

Professionals at work



*The smallest and lightest machines of its class:
3.7 kg, yet with powerful 110 A and 120 A*



*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*

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.



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.



AL 1500 welding torch for TP 1500 TIG with facility for setting the welding current directly from the torch handle.



CHECKLIST

	TP 1100/TP 1200	TP 1500	TP 1500 RC	TP 1500 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 welding-current adjustment via torch				●
Overtemperature protection	●	●	●	●

Indication of:

	TP 1100/TP 1200	TP 1500	TP 1500 RC	TP 1500 TIG
Operating-mode		●	●	●
Mains voltage monitoring	●	●	●	●
Overtemperature	●	●	●	●

Adjustable parameters:

	TP 1100/TP 1200	TP 1500	TP 1500 RC	TP 1500 TIG
Arc force		●	●	●
Falling characteristic		●	●	●
Continuously adjustable welding power	●	●	●	●
TIG pulsed-arc				●

● series ○ optional

TECHNICAL DATA

	TP 1100	TP 1200	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.)	12 A	8 A	16 A
Cos phi	0.99 (110 A)	0.85 (60 A)	0.99 (140 A)
Efficiency	87 % (60 A)	85 % (60 A)	87 % (80 A)
Welding-current range (continuous)	Electrode	10 - 110 A	10 - 120 A
	TIG	–	–
Welding current at	10 min/40°C	15 % d.c. –	120 A –
	10 min/40°C	20 % d.c. 110 A	–
	10 min/40°C	25 % d.c. –	–
	10 min/40°C	35 % d.c. –	–
	10 min/40°C	60 % d.c. –	50 A –
	10 min/40°C	100 % d.c. 60 A	40 A
	10 min/25°C	30 % d.c. 110 A	–
	10 min/25°C	45 % d.c. –	–
	10 min/25°C	100 % d.c. 80 A	–
	10 min/25°C	100 % d.c. 80 A	–
Open-circuit voltage	105 V	105 V	92 V
Standardised operating voltage	Electrode	20.4 - 24.4 V	20.4 - 24.8 V
	TIG	–	–
Degree of protection	IP 23	IP 23	IP 23
Type of cooling	AF	AF	AF
Insulation category	B	B	B
Dimensions L x W x H	mm	265x110x200	265x110x200
	Inches	10.44x4.33x7.88	10.44x4.33x7.88
Weight	mm	265x110x200	315x110x200
	Inches	10.44x4.33x7.88	12.41x4.33x7.88
Weight	3.7 kg/8.1 lb	3.7 kg/8.1 lb	4.7 kg/10.3 lb



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