

ПК0311189

TRANSTIG 2000 / MAGIC WAVE 2000

TIG AC/DC & ROD ELECTRODE



PERFECT WELDING

Welding at its best

So small – and yet 200 A strong. Packing a bigger punch than the "big boys", yet so light and handy. That's the new generation of Fronius welding machines. Developed specially for you, and carefully tailored to the exacting requirements you have.

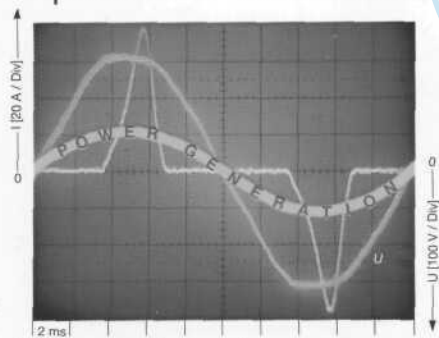
True, it took us several years of hard R & D work to get to this point. But now we're ready to present a little masterpiece to you. The Fronius "Power Generation" comprises two machines that both give you a maximum of power output from a minimum of current input. 200 amps from your 230 V plug socket, to be more exact.

What makes all this possible is

a sinusoidal current input. This has another advantage for you, too. It means that wherever there are welding jobs needing to be done, you can just take your machine with you. The bad old days of thick, heavy mains cables are now a thing of the past.

What's more, the "Power Generation" uses fuzzy logic, the newstyle logic modelled on

human modes of thought. This technology automatically ensures that you get the finest settings, the best arc stability and perfect ignition – all against a backdrop of whisper-quiet background noise. Welding at its very best. That's the promise the "Power Generation" holds out – and keeps.



Comparison between the "Power Generation"
(low, sinusoidal current input)
and conventional inverter technology
(high, pulsed current input).



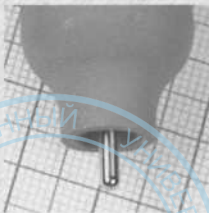
More plus-points awaiting you:

The "Power Generation" has a lot of functions you'll be really glad of. Like being able to call up the pulsed-arc and spot welding modes right away, straight from the remote control unit. The amperage can be continuously adjusted from 5 A with AC (for welding without RF heterodyne, of course), and from 3 A with DC – a great advantage when you're working in the extreme thin-sheet range. The concentrated arc on the tungsten tip will make absolutely sure that you get a particularly narrow seam. But this is far from being all that the "Power Generation" has in store for you. We'll be pleased to tell you more!

Putting true economy to the test.

Initially, you may find it somewhat more expensive to purchase a member of the "Power Generation" than an inferior class of machine. You'll be amazed, though, at how quickly it repays you the extra cost. As we said: less electricity – more power. So you soon start to reap the dividends.

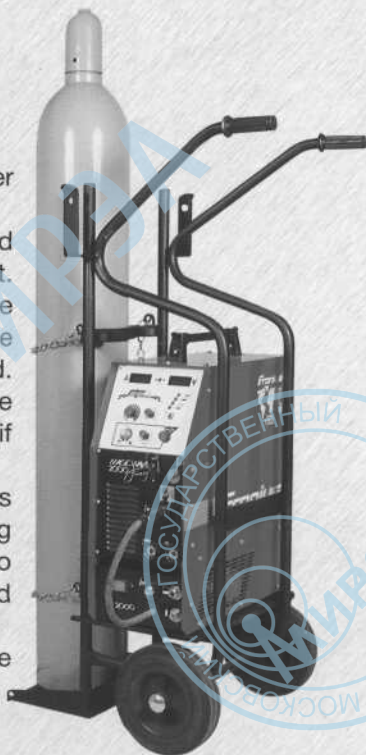
Beautifully curvaceous tips for your electrodes!



Like so many other things about the "Power Generation", getting the right-shaped tip on your electrode can be a fun job too. Simply call up the function from the torch trigger and the power is carefully dosed during ignition in such a way that it's just right for the diameter of electrode you have selected. Timesaving. Spot-on. Typical "Power Generation".

Any more power?

True to its name, the "Power Generation" offers just that. At full output, gas-cooled torches are quick to overheat. Yet you still have "carte blanche" as far as the duty cycle of your machine is concerned. Otherwise, what would be the point of having all that power if you couldn't always use it? The "Power Generation" gives you the option of connecting up the FK 2000 unit so as to use powerful water-cooled torches. Not a bad idea, it has to be agreed!



A word on your safety.

You don't need us to tell you that machines for on-site use have to meet IP 23. We take this literally. What that means for you is that wherever you are and whatever you're doing your machine is protected against water and foreign bodies. To earn this rating, the "Power Generation" had to undergo gruelling tests. And pass them. With flying colors.

Convenient to operate.

With the "Power Generation", operator-friendliness is more than just a catchword. All those time-consuming, fiddly settings to make – just forget about it. The three Fronius newcomers have only a very few dials and make life a whole lot easier.

A microprocessor takes care of everything. Storing actual welding amperage and voltage values, for instance: you just read off the values from the digital indicators after you've finished welding. With its oblique user interface and clearly arranged layout, the whole control panel is a model of ergonomically convenient design. Things like this make welding fun. See for yourself!

Magic Cleaner – a neat piece of work!

You'll be all too familiar with problems with cleaning. Up to now there've been two time-consuming options: Either you've had to get rid of start-up discoloration and welding scale mechanically and put up with unsightly grinding marks, or you've had to resort to pickling and apply for a toxic-chemicals user permit – which says all that needs to be said about the environmental compatibility of this particular process. Magic Cleaner is the way out of this little dilemma. It cleans electrochemically. Efficiently, and swiftly – and without doing anything nasty to either your workpieces or to the environment!



Reliable protection against theft.

Would-be crooks haven't got a chance. The "Power Generation" sees to that, too. Simply enter a 3-digit code which you can choose and alter whenever you like. To anybody who's tempted to make off with your machine, this is a clear signal saying "Hands off!"



CHECKLIST

Programmable gas pre-flow 0.0 - 20s
 Presetting of electrode-diameter for ignition
 Programmable starting current DC 0 - 100% of I_H
 AC 30 - 100% of I_H
 Programmable upslope 0.1 - 7s
 Continuously adjustable welding current I_H 3 - 200 A
 Adjustable downslope 0.1 - 20s
 Adjustable end-crafter current 0 - 100% of I_H
 Digital end-crafter current indicator
 Welding-current-dependent gas post-flow 2.0 - 26s
 2-step operation
 4-step operation
 Non-contact TIG ignition
 TIG contact ignition
 Digital ammeter } With command value and storable
 Digital voltmeter } actual value (hold function)
 Overtemperature indicator
 Error-code indication to facilitate service
 Run status indicators
 Thermostat-controlled fan
 Generator-compatible

 Only on MagicWave 2000
 Programmable AC frequency 40 - 100 Hz
 Adjustable AC balance Cleaning 15 - 50%
 Continuously adjustable AC waveform

TECHNICAL DATA

Power source	TransTig 2000	MagicWave 2000
Mains voltage <i>single phase</i>	230 V	230 V
Mains fuse protection <i>slow</i>	16 A	16 A
Primary continuous current <i>100% d.c.</i>	RMS 10 A	RMS 10 A
Cos phi	1	1
Welding current range <i>stepless</i>	DC 3 - 200 A	3 - 200 A
	AC —	5 - 200 A
Welding current <i>10 min/40° C</i>	35% d.c. 200 A	200 A
	60% d.c. 150 A	150 A
	100% d.c. 120 A	120 A
Max. mains current	RMS 22 A	RMS 22 A
Open-circuit voltage	45 V	45 V
Operating voltage	WIG 10 - 18 V	10 - 18 V
	EL 20 - 26.4 V	20 - 25.2 V
Protection class	IP 23	IP 23
Type of cooling	AF	AF
Insulation category	F	F
Dimensions <i>l/w/h mm</i>	510/230/480	510/230/480
Weight	23 kg	25 kg

RMS = Root Mean Square



ARTICLE NUMBERS

Power source for TIG and rod electrode
 4,075,073 TransTig 2000 DC
 4,075,072 MagicWave 2000 AC, DC+, DC-
 4,045,776 Cooling unit FK 2000
recommended welding torch:
 4,036,088 AW 32 U/D watercooled (4m)
 4,036,245 AL 22 - 1 U/D gascooled (4m)
 43,0011,0009 Gas pressure regulator
 43,0004,0151 Electrode holder 35 mm²
 43,0004,0160 Earthing cable
 4,045,775 2-wheels weldmobile
 4,046,049 TR 50 MC remote control pulsing unit
 4,046,052 TR 51 MC remote control
 spot-welding unit
 4,046,050 TR 52 MC remote control pedal unit
 4,046,051 TR 53 MC AC remote control unit
 4,046,048 TP MC manual electrode
 remote control unit
 43,0004,0459 Remote control cable 5 m
 43,0004,0460 Remote control cable 10 m
 43,0004,0509 Remote control cable 20 m
 4,001,534 MagicCleaner set

REMOTE CONTROL MADE EASY

	continuous setting									
	Welding current	El-arc force	Hot-Start	AC-Frequency	AC-Balance	Spot-welding time	Pulsing frequency	Puls-Duty Cycle	Background current (%)	Pulsing frequency range
TR 50-MC Plus-remote regulator	●	-	-	-	-	-	●	●	●	●
TR 52-MC Foot-remote regulator	●	-	-	-	-	-	-	-	-	-
TR 50-MC + TR 52-MC	●	-	-	-	-	-	●	●	●	●
TR 53 MC AC-remote regulator	●	-	-	●	●	-	-	-	-	-
TP-MC Electrode remote regulator	●	●	●	-	-	-	-	-	-	-
TR 51-MC Remote regulator for spot welding	●	-	-	-	-	●	-	-	-	-



FRONIUS INTERNATIONAL GMBH&CO KG

Buxbaumstraße 2, P.O.Box 264, A 4602 Wels

Tel: +43/7242/241-0

Fax: +43/7242/241-394

E-Mail: sales@fronius.com

www.fronius.com