



TRANSPOCKET 2500 / 3500

/ Rod electrode & TIG DC welding



/ The TransPocket 2500/3500 units are the ideal appliances for using both out in the field and in production operations. Their light weight and standard carrying handle make them easily portable, while their robust design makes them shock-proof and just about indestructible. The higher-placed ventilation slots stop any water getting in, and the integral dust filter provides reliable protection against dirt.

/ The units run on either single or three-phase current and are generator-compatible, so are always ready for action wherever in the world they are deployed. They are ideal for use in sectors ranging from plant engineering, container construction, structural steelwork, mechanical engineering, building trades and the construction industry to the construction of chemical plants, pipeline construction, site-erection firms and shipbuilding – to name but a few.

ADVANTAGES

- / **ALL-DIGITALLY CONTROLLED WELDING MACHINE WITH 250 AND 350 A**
- / **IDEAL CHARACTERISTIC ENSURING A STABLE ARC, EVEN WITH E.G. UP TO 100 M LONG MAINS SUPPLY LEADS OR FLUCTUATING MAINS VOLTAGES (250 TO 506 V) OR IN GENERATOR-POWERED OPERATION**
- / **GUARANTEED TO WELD ALL TYPES OF ELECTRODE OF UP TO 5 MM IN DIAMETER – INCLUDING V-DOWN COMPATIBLE WELDING OF CEL-ELECTRODES**
- / **HAS AN "ARMOUR PLATED" HOUSING**
- / **IS STILL COMPACT, LIGHTWEIGHT AND PORTABLE**



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



/ Manual electrode welding and extra TIG function. Large rotary knob for ease of operation even when wearing gloves.



/ E-manual welding and TIG additional function, also remote control interface for direct on-site control.



/ Manual electrode and perfect TIG welding with the TIG pulsed-arc function, for immaculate welds. Also features gas solenoid valve and remote-control connection.



/ Easy menu navigation and plain-text display. Job Mode stores individual settings. Synergic Mode optimises welding parameters for freely selectable types and diameters of electrode.



ECONOMY

COULD BE THE START OF A LIFELONG PARTNERSHIP

/ The new robustness of the TransPocket 2500/3500 makes for the very greatest operational reliability, and thus also for long service life and high operational availability. The word “protection” was written very large indeed in the design and development stage:

/ Protecting the control panel by recessing the control elements, protecting the current socket by integrating it in the front of the housing, protection against soiling by incorporating a dust filter and thermostat-controlled fan as standard, protecting the unit against overheating by integrating an overtemperature cut-out. High operational reliability thus results as a matter of course, which also means that downtimes are minimised.

/ The machines also feature a stand-by mode which lightens the load on the power source and uses 88 % less power than normal.

SAFETY

RELIABILITY IN PERSON

/ Providing the very highest levels of safety is part-and-parcel of being a serious supplier. For Fronius, this is a minimum requirement to be met by every welding system. Of course, the new TransPocket 2500 and 3500 machines come with all the necessary national and international certificates: S, CE, CSA and CCC marks and many other national marks of conformity. Not to mention “Degree of protection IP 23”.



WELDING PROPERTIES

STABILITY MEANS DEPENDABILITY

/ When it comes down to it, the resonance concept is simply this: an extremely stable arc at all times, no matter how long the mains supply leads are. And even if the mains voltage fluctuates.

/ This stability is delivered by the appliances' electronic system. This is like a continuous automatic feedback from the arc to the power parameters. In this way the arc regulates the process on its own, responding instantly to every change. There is plenty of power in reserve whenever it's needed. The result is an arc characteristic that's always perfect and constant. And superlative welding properties coupled with maximum process reliability.

/ While on the subject of the arc: The Arc Force Control function ensures troublefree welding of coarse-droplet electrodes.

IGNITION: HOT AND SOFT

/ The TransPocket 2500/3500 machines are designed to work with any type of electrode – whether rutile, basic

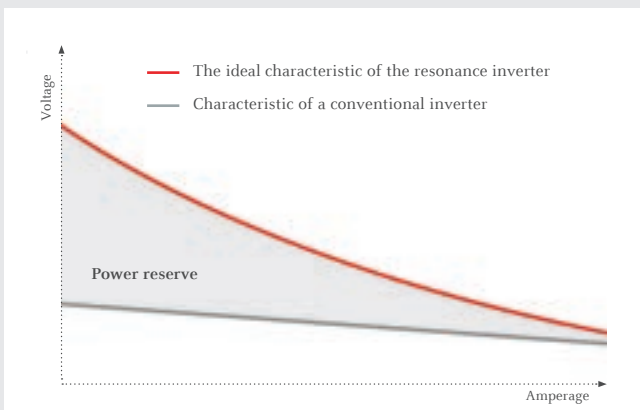
or Cel. And with Cel-electrodes in the vertical-down position, of course, professionals are quick to tell the difference. For all of these electrodes, then, the ideal ignition settings are already stored.

/ The Hot-Start function facilitates ignition of Cel and rutile electrodes. Soft-Start was specially developed for basic electrodes.

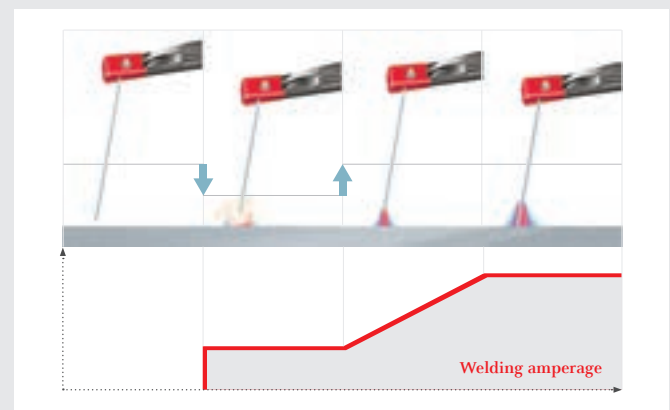
TIG APPLICATIONS

/ In TIG applications, a microprocessor-controlled ignition sequence ensures precise, absolutely reliable operations. The TIG pulsed-arc function makes for better mastery of the weld-pool in out-of-position work and when bridging gaps.

/ And then there is TIG Comfort Stop, a special digital feature which cures the TIG arc of its annoying habit of breaking at the end of welding. A defined motion of the welding torch causes the welding current to drop automatically. A really convenient feature. Look forward to using it!



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



/ Soft-Start delivers a stable arc for basic electrodes that ignite at low welding amperages.

TECHNICAL DATA

| | | TP 2500 | TP 2500 MVM | TP 3500 | TP 3500 MVM |
|---|-----------|------------------------|--|-------------------------|--|
| Mains voltage + / - 10 %, 50/60 Hz | | 3 x 380 - 460 V | 3 x 380 - 460 V * 3 x 200 - 240 V * | 3 x 380 - 460 V | 3 x 380 - 460 V * 3 x 200 - 240 V * |
| Mains fuse protection (slow blow) 200 - 240 V | | - | 20 A | - | 40 A |
| Mains fuse protection (slow blow) 380 - 460 V | | 16 A | 16 A | 25 A | 25 A |
| Primary continuous power (100%) | | 7.1 kVA | 7.1 kVA | 12 kVA | 12 kVA |
| Cos phi | | 0.99 | 0.99 | 0.99 | 0.99 |
| Efficiency | | 89 % | 89 % | 87 % | 87 % |
| Welding current range continuous | Electrode | 15 - 250 A | 15 - 250 A | 10 - 350 A | 10 - 350 A |
| | TIG | 15 - 250 A | 15 - 250 A | 10 - 350 A | 10 - 350 A |
| Welding current at 10 min/104°F (40°C) | | 35 % d.c. 250 A | 35 % d.c. 250 A | 35 % d.c. 350 A | 35 % d.c. 350 A |
| | | 100 % d.c. 175 A | 100 % d.c. 175 A | 100 % d.c. 230 A | 100 % d.c. 230 A |
| Open-circuit voltage | | 88 V | 88 V | 89 V | 89 V |
| Standardised working voltage | Electrode | 20.6 - 30 V | 20.6 - 30 V | 20.4 - 34 V | 20.4 - 34 V |
| | TIG | 10.6 - 20 V | 10.6 - 20 V | 10.4 - 24 V | 10.4 - 24 V |
| Degree of protection | | IP 23 | IP 23 | IP 23 | IP 23 |
| Type of cooling / Insulation class | | AF / F | AF / F | AF / F | AF / F |
| Dimensions LxWxH | | 430x180x320 mm | 430x180x320 mm | 490x190x390 mm | 490x190x390 mm |
| | | 16.93x7.09x12.6 inches | 16.93x7.09x12.6 inches | 19.29x7.48x15.35 inches | 19.29x7.48x15.35 inches |
| Weight | | 12.5 kg | 13.5 kg | 18 kg | 19.5 kg |
| | | 27.56 lb. | 29.76 lb. | 39.68 lb. | 42.99 lb. |

* for phase failure, the welding current is limited to 140 A.



CHECKLIST

| GENERAL | STD | TIG | RC | C | SETTABLE PARAMETERS | STD | TIG | RC | C | DISPLAYS | STD | TIG | RC | C |
|---|-----|-----|----|---|--------------------------------|-----|-----|----|---|-----------------------|-----|-----|----|---|
| Anti-stick Function | ● | ● | ● | ● | Dynamic | ● | ● | ● | ● | Mode | ● | ● | ● | ● |
| Touchdown ignition | ● | ● | ● | ● | Falling characteristic | ● | ● | ● | ● | Plain text | ● | ● | ● | ● |
| Earth current watchdog | ○ | ○ | ○ | ○ | Freely programmable parameters | | | | | Mains voltage monitor | ● | ● | ● | ● |
| Vertical-down compatible welding (cellulose electrodes) | ● | ● | ● | ● | Stepless welding power | ● | ● | ● | ● | Overtemperature | ● | ● | ● | ● |
| Remote control facility | | ● | ● | ● | TIG pulse | | | ● | ● | | | | | |
| Gas test function | | | ● | ● | | | | | | | | | | |
| Generator-compatible | ● | ● | ● | ● | | | | | | | | | | |
| Hot start function | ● | ● | ● | ● | | | | | | | | | | |
| Soft start function | ● | ● | ● | ● | | | | | | | | | | |
| Temperature-controlled fan | ● | ● | ● | ● | | | | | | | | | | |
| TIG Comfort stop | | | ● | ● | | | | | | | | | | |
| Overtemperature protection | ● | ● | ● | ● | | | | | | | | | | |
| VRD (Voltage Reduction Device) | ○ | ○ | ○ | ○ | | | | | | | | | | |

● as standard

○ optional

— TP 2500/3500

— TP 2500/3500 RC

— TP 2500/3500 TIG

— TP 2500/3500 C

/ Perfect Welding / Solar Energy / Perfect Charging

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 3,800 employees worldwide, we shift the limits of what's possible - our record of over 1,200 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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