

# TRANSPORT 4000 CEL / 5000 CEL

/ Rod electrode & TIG



## GENERAL REMARKS

/ The Digital Revolution is having far-reaching repercussions. Now it is being joined by two new machines that are digitised through and through, and that even have a multi-process capability: The TransPocket 4000 Cel and 5000 Cel. As their name implies, both these welding machines are completely cellulose-compatible, even in the vertical-down position. Once again, then, Fronius has reached its goal of outclassing conventional welding systems.

## EFFICIENCY

/ The new Fronius power sources are little economic miracles in their own right! Their digital intelligence gives them a multi-process capability, enabling them to be used with all types of electrodes and many different processes. Also, being completely digitised, they ensure superlative welding properties – meaning little or no spatter, and thus little or no post-weld machining. What's more, their inverter technology provides an unfailingly high 90 % efficiency. By delivering maximal performance from only minimal weight, these generator-compatible new machines are also ideal for use out in the field.

## UTILISATION

/ The two Cel machines are a breath of fresh air in today's welding landscape, and can be found in action just about anywhere. The reason is their convenient multiprocess capability. The TP 4000 Cel and 5000 Cel are suitable for all types of electrode: basic, rutile, cellulose; for the most common materials: steel, aluminium, CrNi; for the main processes: gouging, grooving, TIG welding. Main areas of application: construction sites, shipyards, workshops and pipeline construction.



/ For easy, safe transport (also by crane), there is the optional "Everywhere" trolley.



/ Superb results are also achieved when welding pipelines with Cel electrodes. The optimised properties of the arc prevent the electrode from breaking or sticking. The result – a 100% homogeneous root.



## TECHNICAL DATA

		TP 4000 CEL	TP 4000 CELL MV	TP 5000 CEL	TP 5000 CEL MV
Mains voltage 50 / 60 Hz		3 x 400 V	3 x 200 - 240 V 3 x 380 - 460 V	3 x 400 V	3 x 200 - 240 V 3 x 380 - 460 V
Mains voltage tolerance		± 15 %	± 10 %	± 15 %	± 10 %
Mains protection (slow-blow)		35 A	3 x 200 - 240 V: 63 A 3 x 380 - 460 V: 35 A	35 A	3 x 200 - 240 V: 63 A 3 x 380 - 460 V: 35 A
Primary continuous power (100 % d.c.)		12.9 kVA	12.9 kVA	16.3 kVA	16.3 kVA
Cos phi		0.99	0.99	0.99	0.99
Efficiency		90%	90%	90%	90%
Welding current range	Rod electrode WIG	10 - 380 A 10 - 380 A	10 - 380 A 10 - 380 A	10 - 480 A 10 - 480 A	10 - 480 A 10 - 480 A
Welding current at					
10 min / 40°C	40 % d.c.	380 A	380 A	480 A	480 A
10 min / 40°C	60 % d.c.	360 A	360 A	420 A	420 A
10 min / 40°C	100 % d.c.	320 A	320 A	360 A	360 A
Open-circuit voltage		95 V	95 V	95 V	95 V
Standardised working voltage	Rod Electrode WIG	20.4 - 35.2 V 14.5 - 33 V	20.4 - 35.2 V 14.5 - 33 V	20.4 - 39.2 V 14.5 - 38 V	20.4 - 39.2 V 14.5 - 38 V
Maximum working voltage	Rod Electrode	53 V (380 A)	53 V (380 A)	48 V (480 A)	48 V (480 A)
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 L x W x H mm Inches		625 x 290 x 475 24.63 x 11.43 x 18.72	625 x 290 x 475 24.63 x 11.43 x 18.72	625 x 290 x 475 24.63 x 11.43 x 18.72	625 x 290 x 475 24.63 x 11.43 x 18.72
Weight		36.1 kg 79.4 lb	40 kg 88 lb	37 kg 81.4 lb	40.5 kg 89.1 lb



## CHECKLIST

ALLGEMEIN				
Anti-stick function	●	●	●	●
Touchdown ignition	●	●	●	●
Digital weld process control	●	●	●	●
Energy-saving inverter technology	●	●	●	●
Earth leakage detection	●	●	●	●
V-down-compatible welding with Cel electrodes	●	●	●	●
Remote-controllable	●	●	●	●
Generator-compatible	●	●	●	●
"Hot-Start" function	●	●	●	●
Microprocessor control	●	●	●	●
Thermostat-controlled fan	●	●	●	●
TIG Comfort Stop	●	●	●	●
Overtemperature protection	●	●	●	●

INDICATION OF				
Operating mode	●	●	●	●
Error codes	●	●	●	●
"Hold" function	●	●	●	●
Mains voltage monitoring	●	●	●	●
Welding voltage (actual/guide value)	●	●	●	●
Welding current (actual/guide value)	●	●	●	●
Overtemperature	●	●	●	●

ADJUSTABLE PARAMETERS				
Welding current	●	●	●	●
Arc-force	●	●	●	●
Hot Start	●	●	●	●

- TP 4000 CEL
- TP 4000 CEL MV
- TP 5000 CEL
- TP 5000 CEL MV

/ Perfect Welding / Solar Energy / Perfect Charging

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/ 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.

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