

# "IT'S NOT A QUESTION OF SIZE" TRANSPOCKET 150 / 180

PROFESSIONAL TOOLS FOR PROFESSIONAL USERS



# PROFESSIONAL TOOL FOR PROFESSIONAL USERS

#### / Designed for manual applications

- / Workshops
- / Maintenance
- / Construction sites
- / Repair
- / Installation

#### / Wider range of application areas thanks to

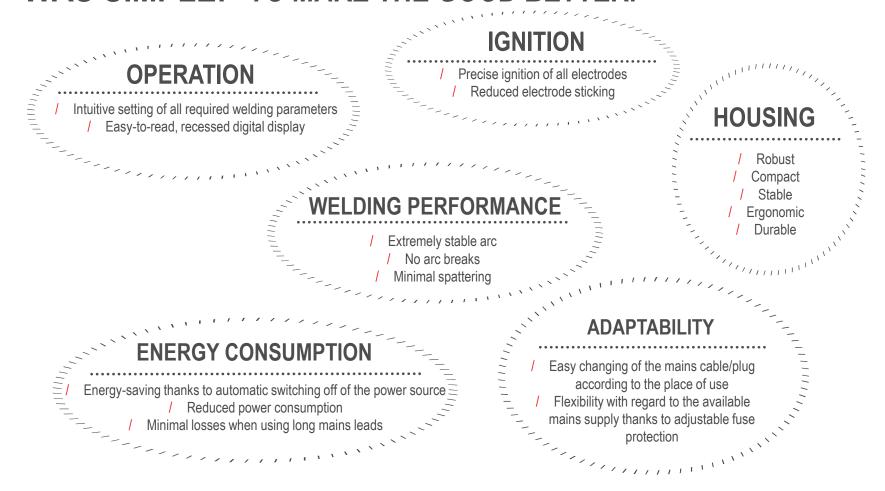
- / TIG variant
- / Multivoltage variant (TP 180)
- / RC variant (Remote Control)
- / VRD option
- / etc.



Compact size and easy handling combined with maximum robustness and reliability



# THE GOAL WHILE DEVELOPING THE NEW TP 150 / 180 WAS SIMPLE: "TO MAKE THE GOOD BETTER."





# WELDING THAT IS MORE RELIABLE AND EFFICIENT THAN EVER BEFORE THANKS TO FIRST-CLASS TECHNOLOGY

- / The digital resonance inverter ensures an extremely stable arc and minimal spattering.
- / PFC technology (Power Factor Correction) saves energy, enables the use of mains leads up to approx. 100 m and guarantees a more flexible input voltage range.
- / The optimized ignition behavior ensures precise ignition and reduced electrode sticking.

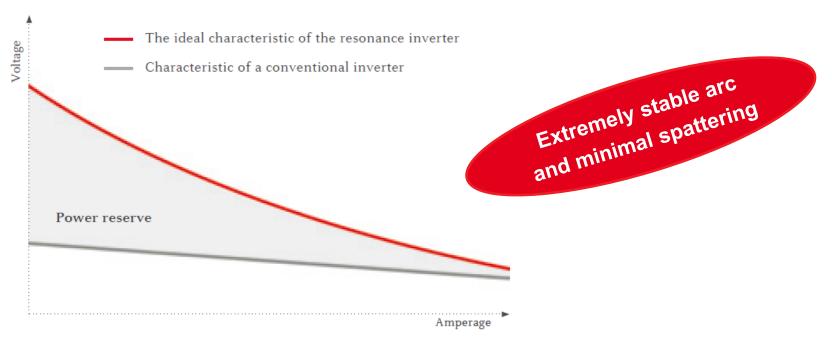




## THE PERFECT WELDING RESULT



Thanks to the intelligent use of available power reserves, the power source behaviour adapts to the welding task



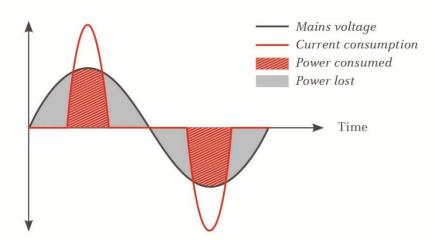
With the **DIGITAL** resonant intelligence a faster control than on the well known resonant-inverter is possible.



## **MAXIMUM ENERGY EFFICIENCY**

The adaptation of the current consumption to the mains voltage reduces losses (disturbances or reactive power) and improves the power factor.

#### **VOLTAGE AND CURRENT CURVE WITHOUT PFC**



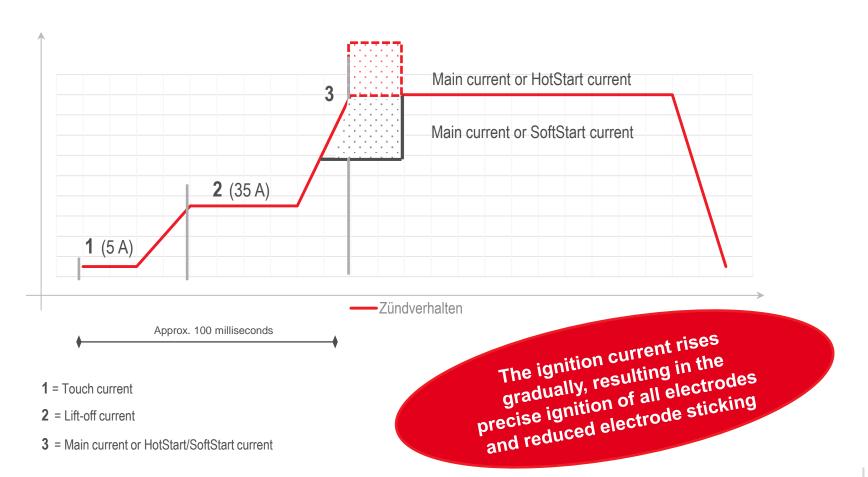
#### **VOLTAGE AND CURRENT CURVE WITH PFC**



Energy-saving, greater operating range due to the use of long mains leads with less losses, improved generator compatibility, higher welding current possible without tripping the circuit breaker



# PRECISE IGNITION AND REDUCED ELECTRODE STICKING THANKS TO OPTIMISED IGNITION BEHAVIOUR





## **MAXIMUM MOBILITY**

**TP 150** 



**TP 180** 



/ Compact dimensions

/ TP 150 dimensions (I x w x h) – 365 x 130 x 285 mm

/ TP 180 dimensions (I x w x h) – 435 x 160 x 310 mm

/ Lightweight housing

/ TP 150 – 6.3 kg

/ TP 180 – 8.7 kg

 New design concept for easy and ergonomic handling

- / Welding power-leads can be wound up on the device
- / Ergonomic handle
- / Shoulder strap

310 mm



# MAXIMUM RELIABILITY AND ROBUSTNESS EVEN UNDER HARSH OPERATING CONDITIONS

PROTECTED
CONNECTION AND
OPERATING AREA

# IMPROVED TILTING STABILITY

/ Greater ground clearance with optimum protection of the electronics / Protection of the edges and prevention of wear



ROBUST PLASTIC HOUSING CONSTRUCTION PROTECTS AGAINST ANY ENVIRONMENTAL INFLUENCES

# LONGER SERVICE LIFE DUE TO ROBUST INNER LIFE

/ All components are assigned a specific place of a function carrier

/ Protection of components from damage

/ Quick replacement of PC boards and components

/ Improved, targeted air flow inside the device

/ Reduced contamination of the PC boards

#### **OPTIMISED FIN ELEMENTS**

/ Better protection against moisture

/ Optimised cooling for a longer duty cycle

/ Integrated dust filter for a better protection of the electronics / IP23-Protection



# CONTROL PANEL INCLINED TOWARDS THE USER WITH A SIMPLE SEVEN-SEGMENT DISPLAY PROVIDES COUNTLESS OPTIONS



- / Protected area with maximum user-friendliness
- / Simple layout
- / Intuitive operation
- / Extremely easy to read
- / Setup menu in the background with numerous settings, e.g. SoftStart/HotStart, anti-stick, dynamic, time shutdown, 2-step/4-step mode etc.



- (1) Set value indicator
- (2) Unit indicator
- (3) Set value button
- (4) Display
- (5) Welding process indicator
- (6) Welding process button
- (7) Adjusting dial
- (8) Status indicators



## **ADDITIONAL SETTINGS**



Energy-saving thanks to automatic switching off of the power source

#### "tSd" time shutdown parameter

- / Automatic switch-off
  - / The ECO parameter automatically switches the machine off after a specified time
  - / Automatic energy savings for customers
  - / Switches off the power module no open circuit voltage is emitted during this time

#### "FUS" parameter

- / Fuse protection
  - / Adjusts the fuse protection for the machine
  - / Host of customer benefits: fuse protection can be adapted to differing mains fuse protections at the deployment site
  - / Can be adjusted according to machine or mains variant





# WE'VE THOUGHT OF EVERYTHING...

#### **GENERATOR-COMPATIBLE**

Incl. overvoltage protection of up to 400 V without damage

# USB UPDATES

Protected inside the housing – allows special processes to be updated and system information to be read easily





# SUITABLE FOR CEL-ELECTRODES

Specially selectable operating mode for Cel electrodes for perfect welding results

# Transformer 150 Transformer 15

# OPTIONAL TMC CONNECTION SOCKET

For TIG welding torches with U/D function and remote control

# EASY CHANGING OF MAINS CABLE / PLUG ON MV VARIANTS

Easy and quick changing of the mains cable/plug according to the place of use due to a water-tight, lockable plug connection on the back side of the machine (Fronius Power Plug)

# COMPLIANCE WITH ALL RELEVANT STANDARDS

CE, UL/CSA, CCC etc.

#### **TP 180 MV VARIANT**

120-230 V -20% / + 15%



## **POWER SOURCE VARIANTS**

TP 150

TP 180

#### **Standard**

#### **RC** (Remote Control)

TMC socket for use with remote control

#### TIG

- / Integrated gas solenoid valve, TMC socket
- / TIG pulsing, TAC, Up / Down function, 2-step / 4-step mode
- / Touchdown ignition
- / TP 180: 220 A





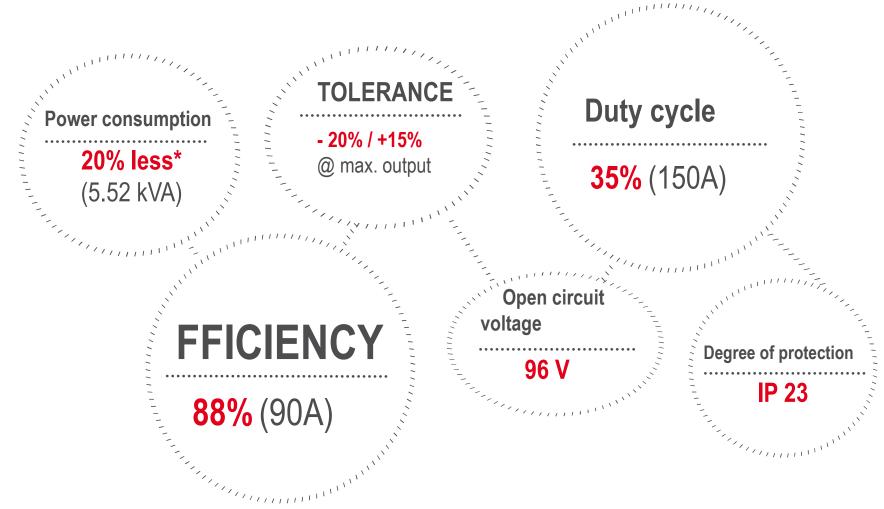
#### MV (Multi Voltage)

- / Increased mains voltage range 120-230V -20/+15%
- / Fronius Power Plug: water-tight, lockable pluc connection for mains cable / plug variants
- / UL-/CSA certificate

#### TIG MV (Multi Voltage)



## **TP 150 – TECHNICAL HIGHLIGHTS**





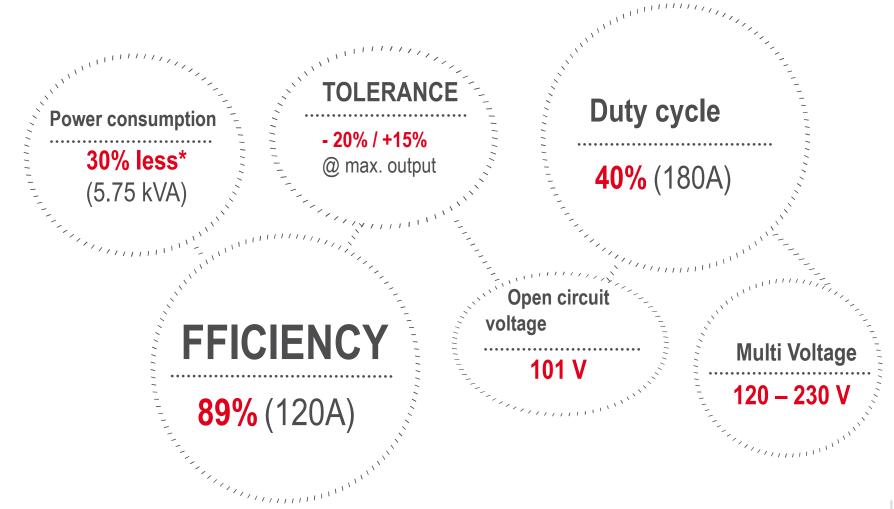
# **TP150 - TECHNICAL DATA**

	TP 150
Mains voltage - 20% / +15%	1x 230 V
Cos phi	0.99
Efficiency	88%
Primary power consumption	max. 5.52 kVA
Welding current range (230V)	10 – 150 A
Welding current range TIG (230V)	10 – 150 A
Welding current @ (230V) MMA/TIG	
10 min / 40 °C 35% d.c.	150 A
10 min / 40 °C 100% d.c.	90 A
Open circuit voltage	96 V
Working voltage	20.4 – 26.0 V
Working voltage, TIG	10.4 – 16.0 V
Degree of protection	IP 23
Dimensions L/W/H	365 / 130 / 285 mm
Weight	6.3 kg





## TP 180 - TECHNICAL HIGHLIGHTS





# TP 180 (MV) - TECHNICAL DATA

	TP 180	TP 180 MV
Mains voltage - 20% / +15%	1x 230 V	1x 230
Mains voltage MV -20% / +15%	-	1x 120
Cos phi	0.99	0.99
Efficiency	89%	89%
Primary power consumption	max. 5.75 kVA	2.28 kVA – max. 5.75 kVA
Welding current range (230V)	10 – 180 A	10 – 180 A
Welding current range TIG (230V)	10 – 220 A	10 – 220 A
Welding current @ (230V)		
10 min / 40 °C 40% d.c.	180 A	180 A
10 min / 40 °C 100% d.c.	120 A	120 A
Welding current @ (120V / 20A)		
10 min / 40 °C 40% d.c.	-	120 A
10 min / 40 °C 100% d.c.	-	90 A
Open circuit voltage	101 V	101 V
Working voltage	20.4 – 27.2 V	20.4 – 27.2 V
Working voltage, TIG	10.4 – 18.8 V	10.4 – 18.8 V
Degree of protection	IP 23	IP 23
Dimensions L/W/H	435 / 160 / 310 mm	435 / 160 / 310 mm
Weight	8.9 kg	8.9 kg



# **TIG WELDING TORCHES**

## / Welding torches

ITEM NUMBER	DESIGNATION
4,035,978	TTG 1600A FS/TL/4m
4,035,979	TTG 1600A FS/UD/4m TMC
4,035,862,635	TTG 1600A S/B25/4m system
4,035,989	TTG 2200A F/UD/4m TMC
4,001,549	Adapter Bayonet 25mm²/50mm² (for TP150)

#### **Abbreviations:**

/ FS = Fronius Small (bayonet with internal gas)

/ TL = Trigger Less

/ UD = Up-/Down

/ TMC = Tig Multi Connector (robust socket for the availability of all functions)

/ S = Gas-valve torch

/ B25 = Bayonet 25 mm<sup>2</sup> with external gas



/ Perfect Welding / Solar Energy / Perfect Charging



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