

FMW MULTI WELDING SYSTEM

/ MIG-MAG / CMT / TIG / PLASMA / COLDWIRE / HOTWIRE

**/ MULTI PURPOSE
/ MULTI PROCESS**



/ The Fronius Multi Welding System includes the possibility to combine universal welding applications in one system. Further more different welding processes are available, that can be used individually and can be retrofitted at a later date. In sectors like food industry, plant construction and energy generation, where different types of work pieces (tubes, flanges, pipe reducers, fittings, valves, ...) and various metal alloys play a major role, the Fronius Multi Welding System is the first choice.

- / HUMAN MACHINE INTERFACE – SYSTEM CONTROLLER**
- / MULTI WELDING PROCESSES**
- / CIRCULAR, LONGITUDINAL AND THOSE COMBINED IN MULTI WELDING AXES**
- / 10 TRAVELLING AXES ACCESSABLE VIA HMI AND REMOTE CONTROL**
- / MODULAR EXPENDABLE PLANT CONCEPT**
- / Q-MASTER FOR QUALITY MANAGEMENT**
- / ARCVIEW CAMERA SYSTEM**



/ Always the right welding process suiting the application.



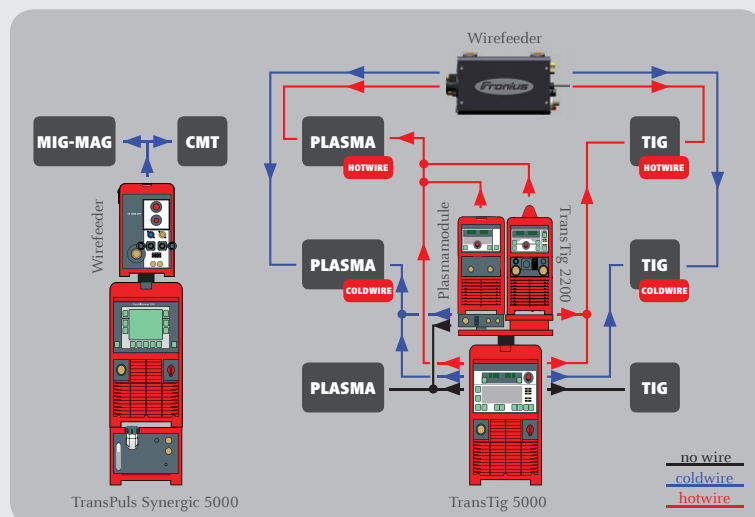
/ Easy and fast changing of torch or rather welding process.

FMW – THE UNIVERSAL MULTI WELDING SYSTEM

/ The Fronius Multi Welding System allows fast changing of welding processes. Equipped with a quick release torches can be replaced in seconds.

The intuitive user interface HMI provides new opportunities and saves time. To be customized in operation and programming, developing of welding procedures have never been so easy.

MULTI WELDING PROCESS



/ There is a maximum of 8 different welding processes available. Depending on the requirements different power source sets can be configured.

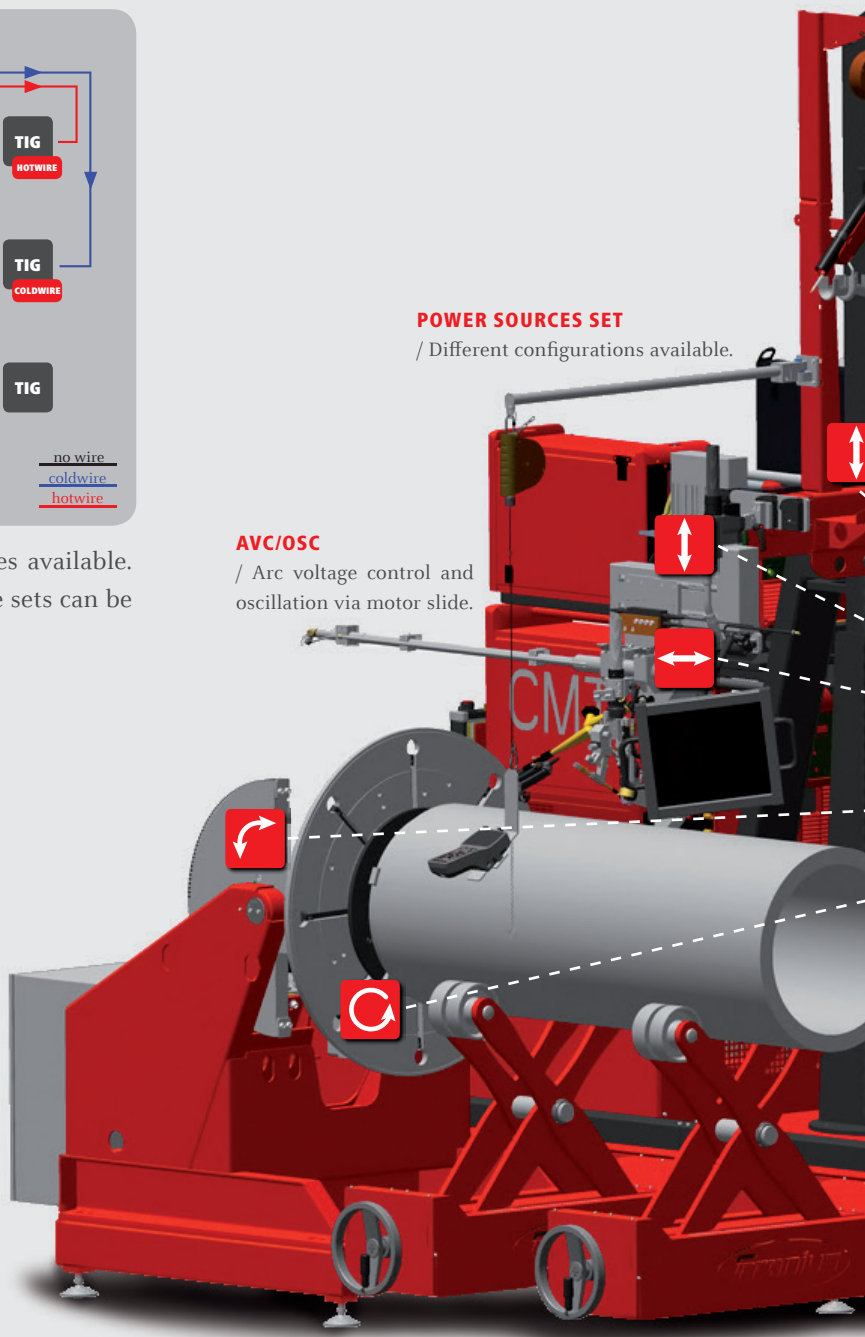


ARCVIEW

/ The camera module is installed at the torch and sends live pictures to the control panel and via ethernet through internet.

HMI T-10

/ The highend system controller allows controlling up to 10 motorized travelling axes supported by a graphical interface. A remote control allows access to all relevant functions.



POWER SOURCES SET

/ Different configurations available.

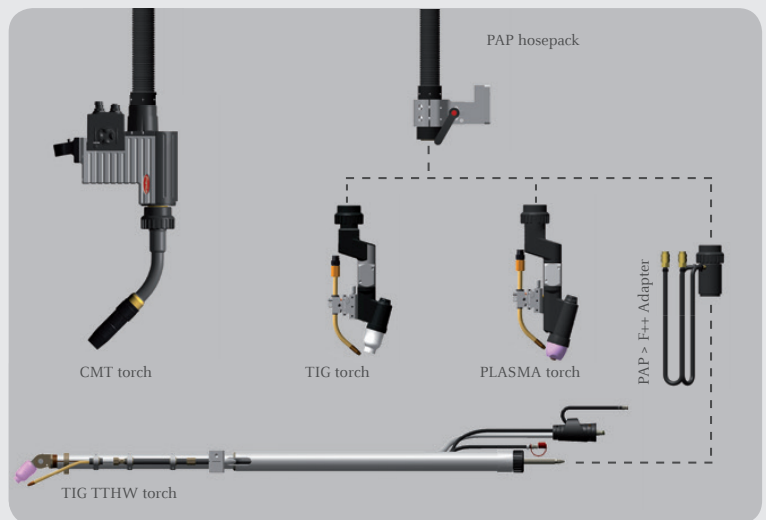
AVC/OSC

/ Arc voltage control and oscillation via motor slide.

SUPPORT UNITS

/ Adjustable support units for perfect work piece guiding. Linear guides allow precise and easy movement.

DIFFERENT MACHINE TORCHES



/ The PAP hosepack allows using 3 different torches with the same hosepack. Torch or rather process changing is fast and easy.

COLUMN AND BOOM

/ Equipped with servo motors for horizontal and vertical travel. The base has an additional horizontal travel axis.



**AXES
MOTORIZED**

UP TO 10 MOTORIZED AXES

/ Up to 10 axes are accessible by the HMI system controller. Any axis can be used as welding or positioning axis.

-  **TILTING AXIS**
-  **ROTATING AXIS**
-  **VERTICAL TRAVELLING AXIS**
-  **HORIZONTAL TRAVELLING AXIS**

POSITIONER

/ For vertical and horizontal work piece positioning. Axes can be used as travelling or welding axes.

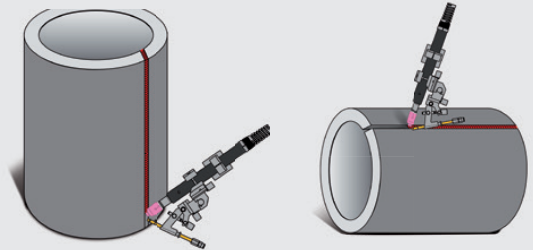
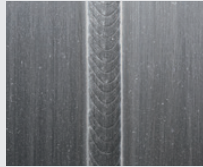
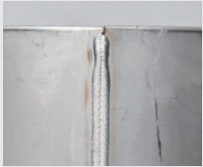


MULTI PURPOSE WELDING



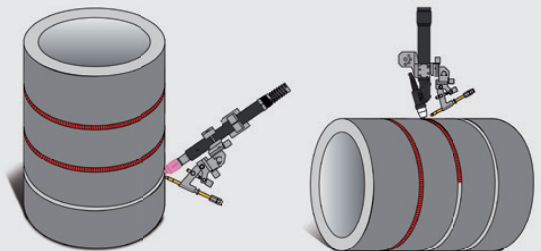
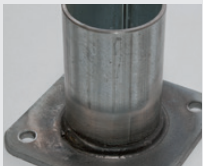
LONGITUDINAL WELDING

/ In horizontal and vertical work piece position.



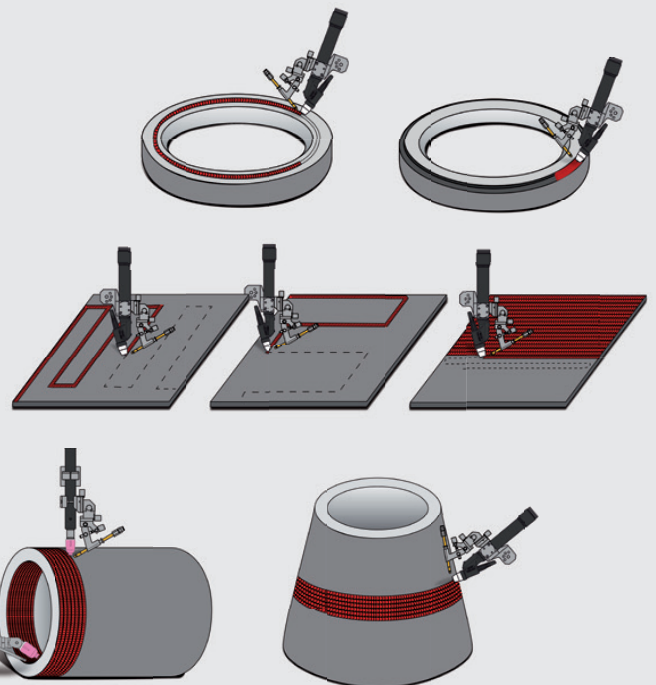
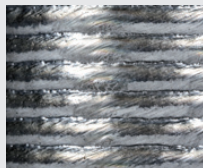
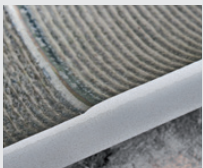
CIRCUMFERENTIAL WELDING

/ In horizontal and vertical work piece position.



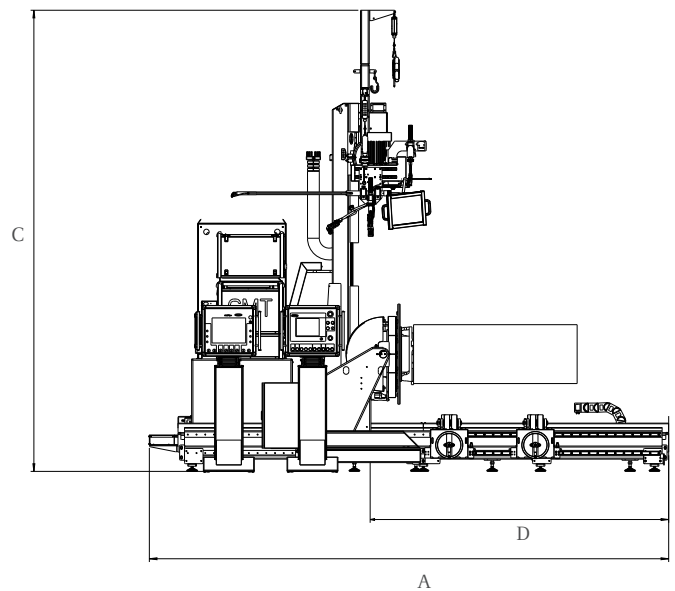
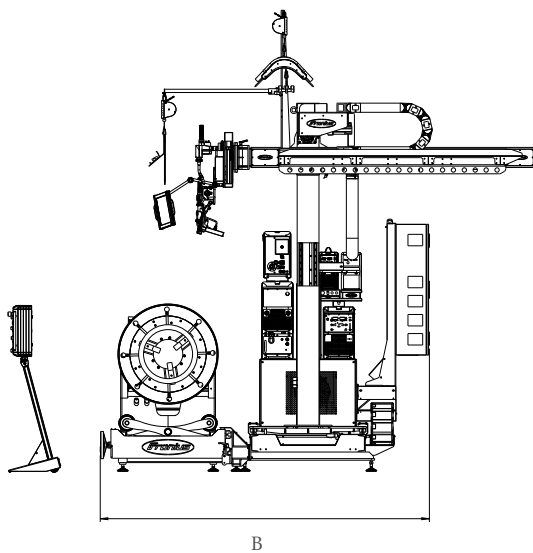
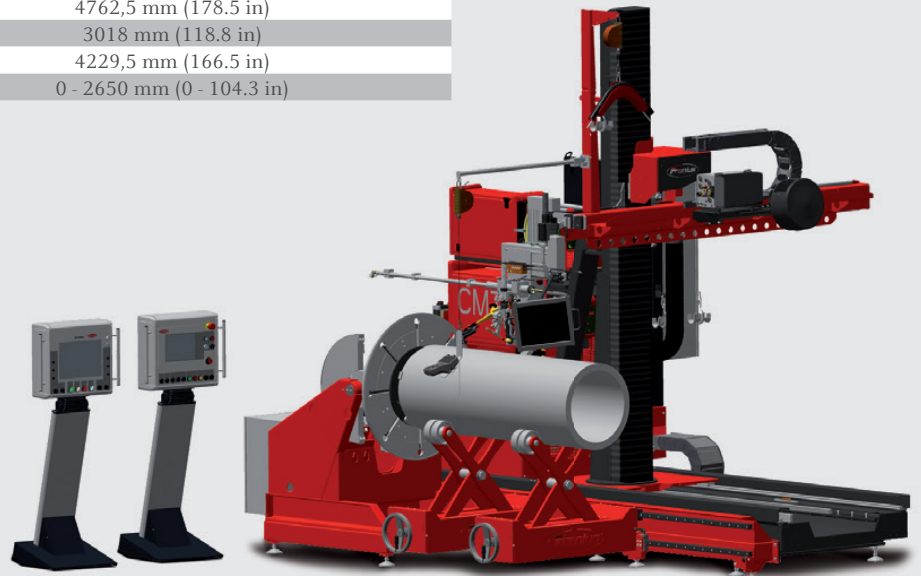
CLADDING

/ More than one welding axis is required.

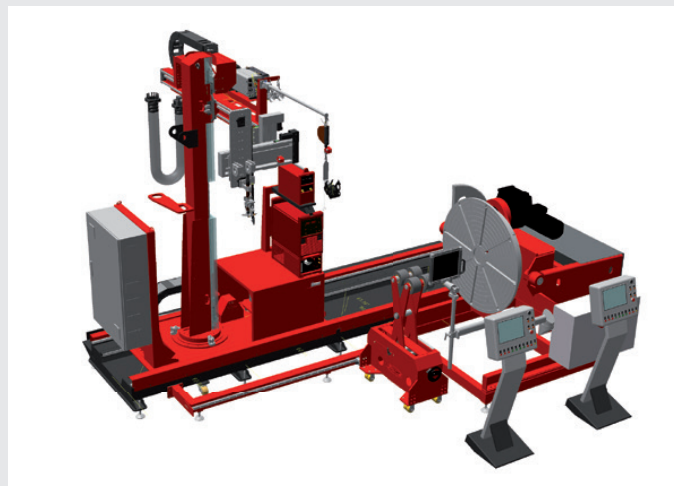
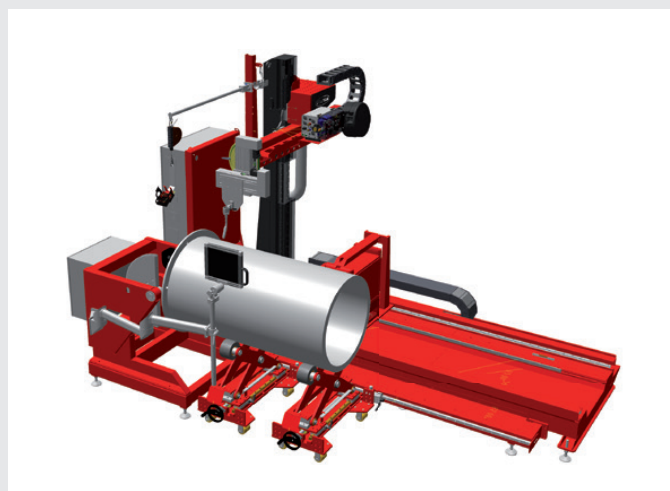
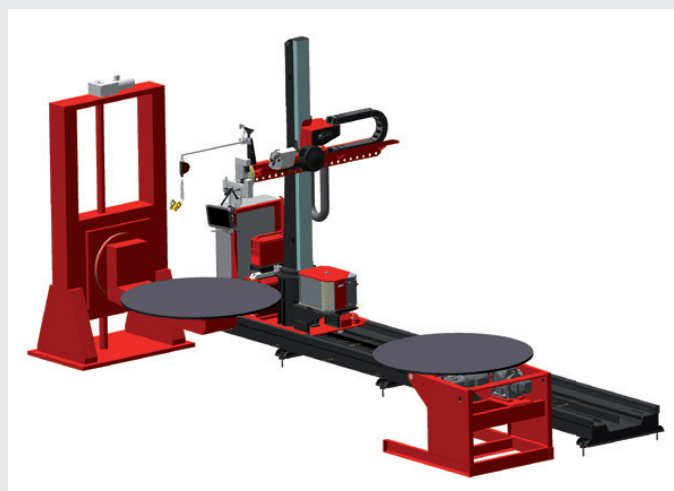


TECHNICAL DATA

FMW	
Welding process	MIG-MAG/CMT/TIG/PLASMA/COLDWIRE/HOTWIRE
Mains voltage 50 - 60 Hz (excl. positioner)	3 x 400 V/63 A
Hollow shaft (gripper chuck)	270 mm (10.6 in)
Work piece diameter (gripper chuck)	50 - 540 mm (2 - 21.3 in)
Work piece length	max. 2500 mm (98.4 in)
Work piece weight	max. 1000 kg (2204.6 lb)
Overall weight	4500 kg (9920.8 lb)
DIMENSIONS	
A (length)	4762,5 mm (178.5 in)
B (width)	3018 mm (118.8 in)
C (height)	4229,5 mm (166.5 in)
D (base travel)	0 - 2650 mm (0 - 104.3 in)



FMW SOLUTIONS



/ Battery Charging Systems / Welding Technology / Solar Electronics

WE HAVE THREE DIVISIONS AND ONE PASSION: SHIFTING THE LIMITS.

/ Whether Battery Charging Systems, Welding Technology or Solar Electronics - our goal is clearly defined: to be the technology and quality leader. With around 3,000 employees worldwide, we shift the limits of what's possible - our more than 850 active patents are testimony to this. While others progress step by step, we innovate in leaps and bounds. Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com



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