

/ Perfect Welding / Solar Energy / Perfect Charging



FCW 650

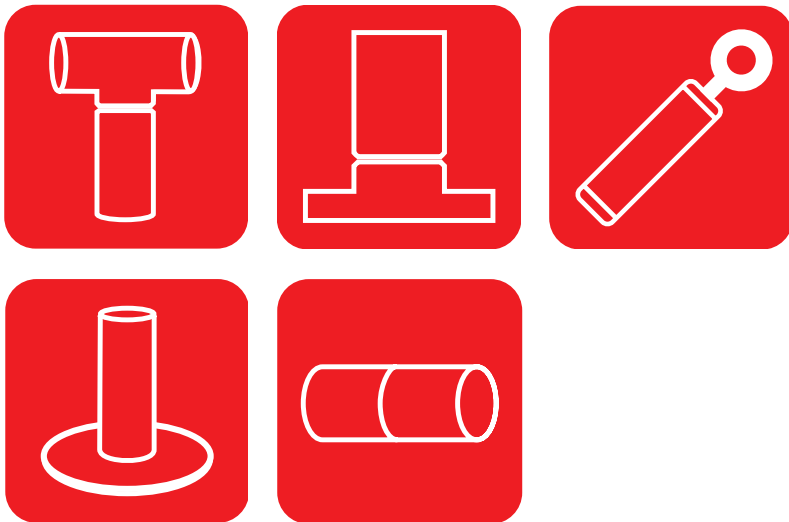
Compact circular welding system – MIG / MAG, TIG / TIG CW

TOP QUALITY CIRCULAR SEAMS. ALWAYS REPRODUCIBLE. COST-EFFICIENT & COMPACT.

The FCW 650 circular welding system enables reproducible, high-quality circumferential seams at the push of a button. All system components are combined on a compact, mobile platform and allow rapid adaptation to different applications.

What's your
Welding Challenge?
— Let's get connected.

APPLICATION EXAMPLES



EVERYTHING UNDER CONTROL

The compact FCU-20 control unit controls the entire welding sequence according to its stored programs: Automatic torch feed, start of the welding process and monitoring of the exact welding speed.

QUICK POSITIONING & SECURE FIXATION

The welding head can be quickly positioned using the manual column & boom. A pneumatic slide moves the torch into the welding position. An optional motorized slide for arc length control (AVC) is available for the TIG version.



TIG weldhead with AVC slide

TIG / TIG CW OR MIG /MAG

The FCW 650 welding system is available as TIG/TIG CW or as MIG/MAG version. Both have one thing in common: The world's leading power source technology from FRONIUS!

PRECISION IN EVERY TURN

Turntables of the FTT series guarantee perfect adherence to specified rotation speeds - for optimum and reproducible welding quality. With a tilting range of 0 - 90°, the parts can be positioned individually. Various clamping systems are available for order.



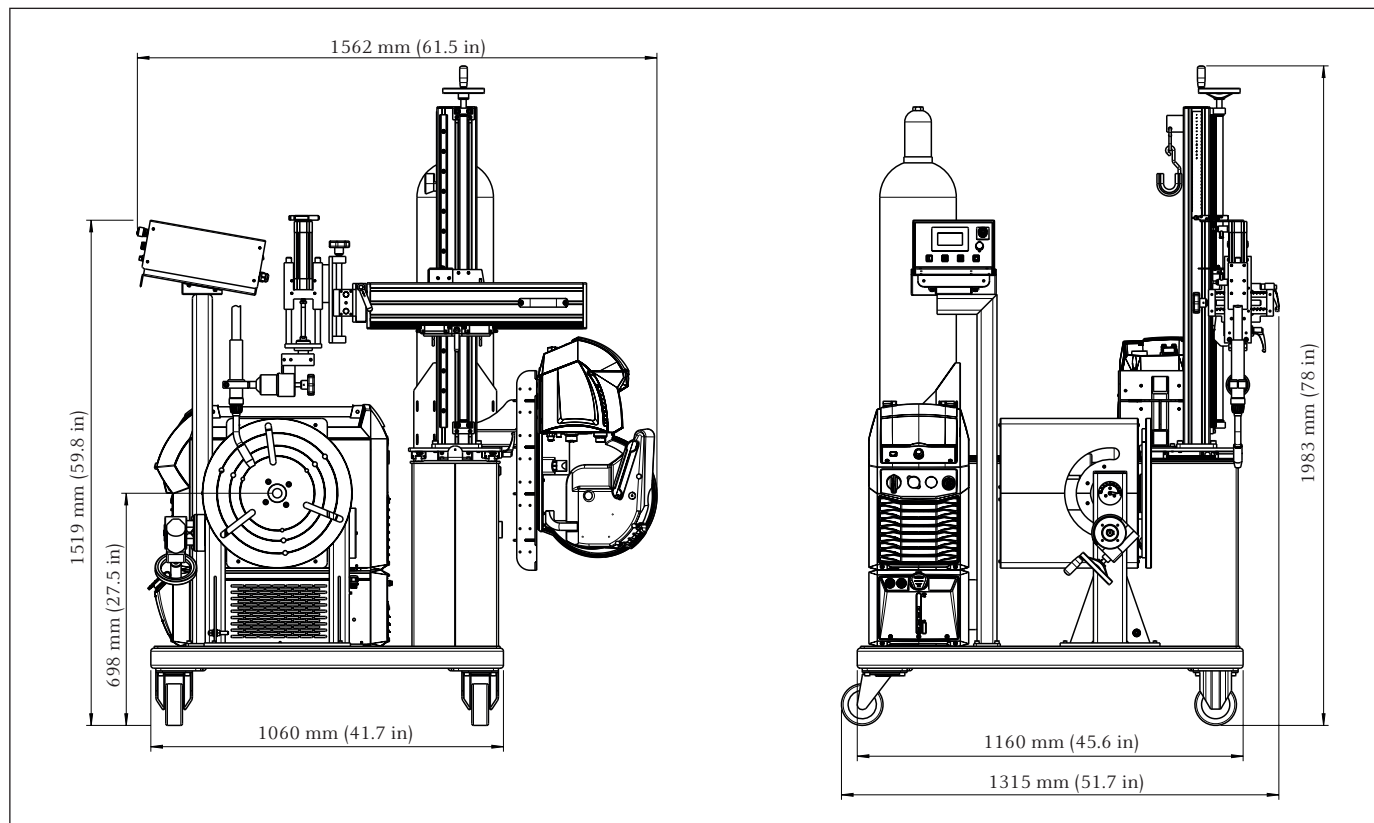
CONFIGURATIONS / FEATURES

| | MIG / MAG | TIG / TIG CW |
|---------------|-------------------------|-----------------------|
| Power source | TPS 400i C PULSE | TransTIG 3000 Job G/F |
| Cooling unit | CU 1100i | FK 2500 FC |
| Machine torch | MTB 400i W | TTW 4000P-M-F++ |
| Wire feeder | WF 25i/4R/G/FSC | KD 4000 D-11 |
| Turntable | FTT 40/MA FTT 150/MA | |

/ All system components are mounted on a compact base with wheels
 / One control unit for all system components
 / For steel & CrNi materials (1 layer)
 / Parts diameter range up to 650 mm
 / Parts weight up to 150 kg (FTT 150/MA)
 / Completely configured for TIG or MIG/MAG welding
 / Welding positions: PA, PB, PC

TECHNICAL DATA

| | FCW 650 with FTT 40/MA | FCW 650 with FTT 150/MA |
|-----------------------|---|--------------------------------|
| Dimensions | 1315 x 1562 x 1983 mm (51.7 x 61.5 x 78 inch) | |
| Max. parts weight | 40 kg (88 lbs) | 150 kg (330 lbs) |
| Max. parts diameter | 650 mm (25.6 inch) | 650 mm (25.6 inch) |
| Weldable diameter TIG | 3 - 300 mm (0.11 - 11.81 inch) | 3 - 500 mm (0.11 - 19.68 inch) |
| Weldable diameter MAG | 10 - 550 mm (0.39 - 21.65 inch) | 5 - 650 mm (0.19 - 25.59 inch) |
| Rotation speed range | 1.4 - 11.2 rpm | 0.8 - 6.2 rpm |
| Max. torque | 20 Nm (14.8 ft lb) | 73 Nm (53.8 ft lb) |



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THREE BUSINESS UNITS, ONE GOAL: TO SET THE STANDARD THROUGH TECHNOLOGICAL ADVANCEMENT.

What began in 1945 as a one-man operation now sets technological standards in the fields of welding technology, photovoltaics and battery charging. Today, the company has around 4,550 employees worldwide and 1,241 patents for product development show the innovative spirit within the company. Sustainable development means for us to implement environmentally relevant and social aspects equally with economic factors. Our goal has remained constant throughout: to be the innovation leader.

Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com

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