



FCW Smart





FCW Smart

Application examples:

- Tube-tube connections
- Tube-flange connections
- Valve seats
- Bearing seats

- + Low investment costs
- + Simple, intuitive operation and programming
- + Motorized torch slides (AVC / OSC)
- + CE-compliant protective housing with automatic anti-glare protection
- + Multi-process capability

Welding equipment

- WIG/Plasma: iWave
- MIG/MAG/CMT: TPSi
- Selectable „Welding Packages“

Protective cabin

- CE approved
- Automatic front door with anti-glare protection
- Manual sliding doors left/right
- Prepared for fume extraction

Welding table

- 1500 x 1000 mm
- D28 system holes with 100 x 100 mm grid





Rotation unit Option

- Motorized rotary unit
- Swivable via handwheel
- Face plate $\varnothing$ 450 mm
- Hollow shaft $\varnothing$ 120 mm
- Purging gas unit

Tailstock Option

- Mounted on linear slide
- Electro-pneumatic operation
- Centre-distance 860 mm

Motorized linear slides

- Horizontal slide for oscillation
- Vertical slide for automatic distance control (AVC)
- Step axis Option

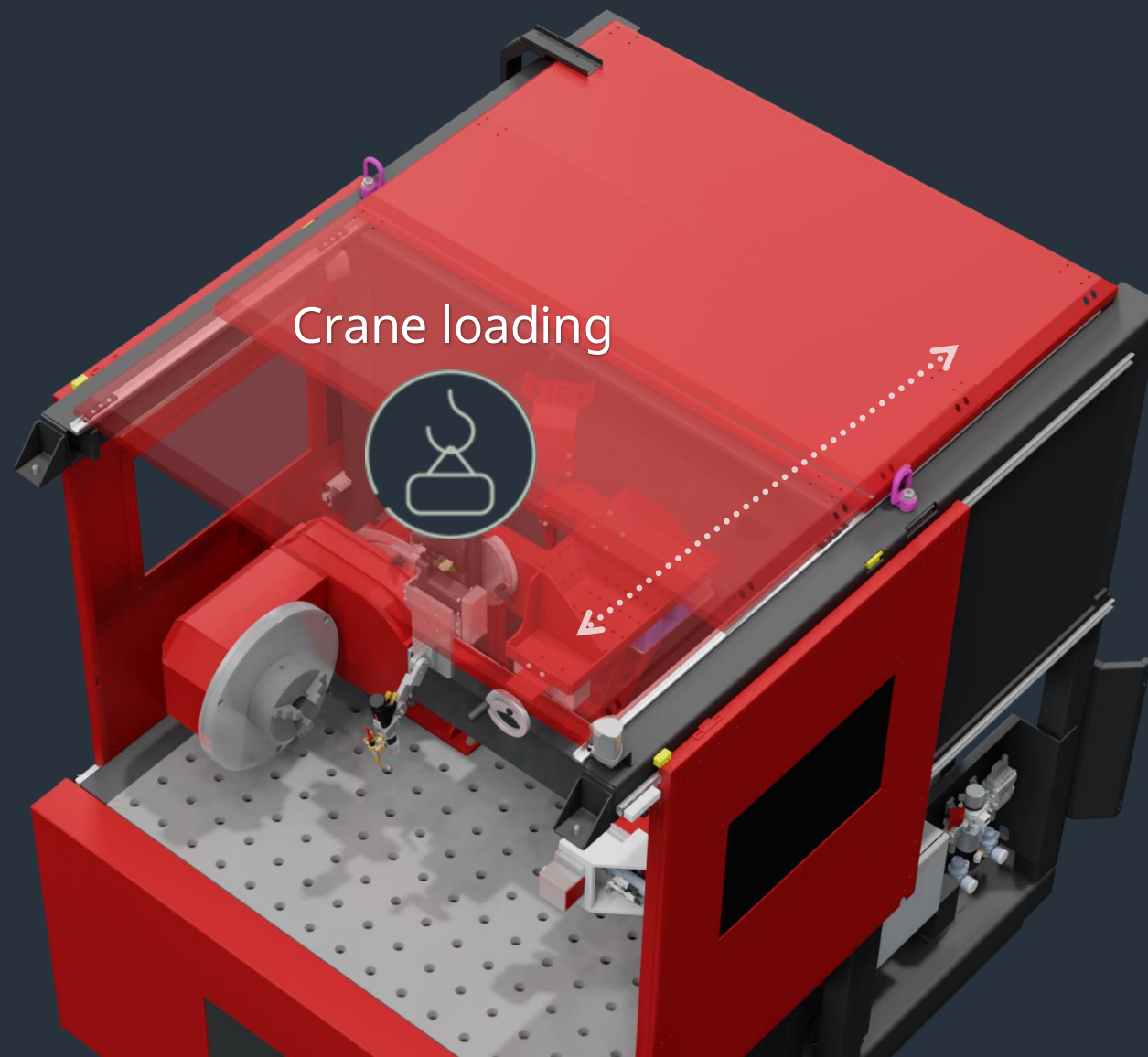
Control unit

- Polaris Mobile Panel
- 10" Multi-Touch Screen
- Mounted on swivel arm

Optimal accessibility

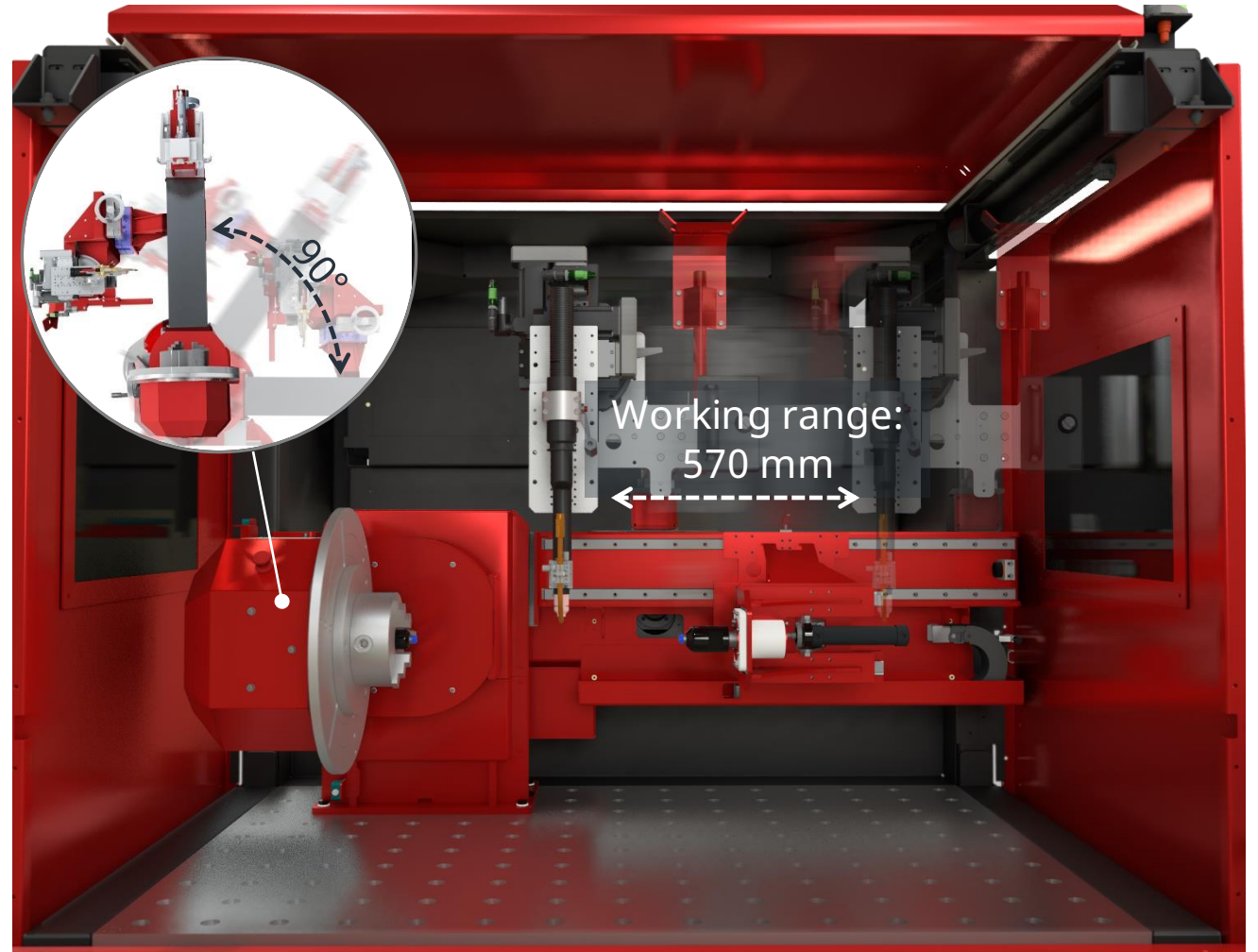
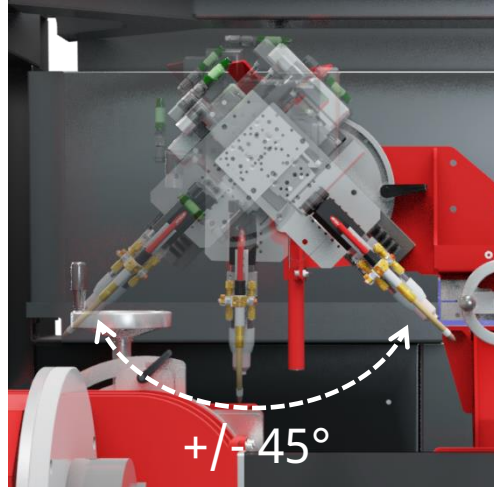
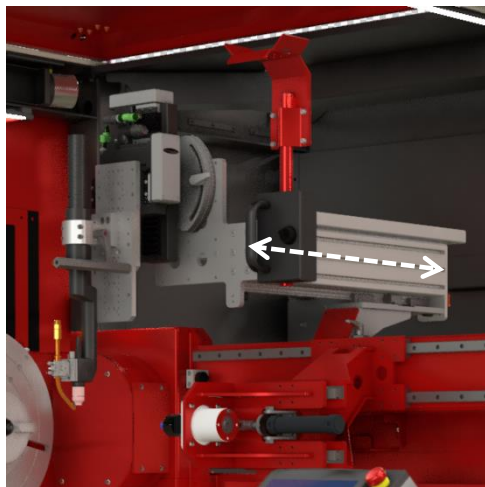
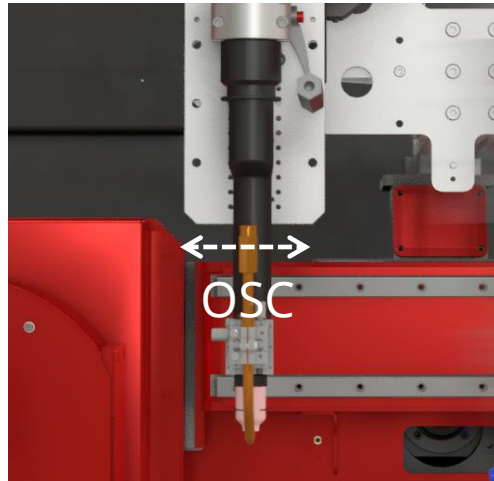
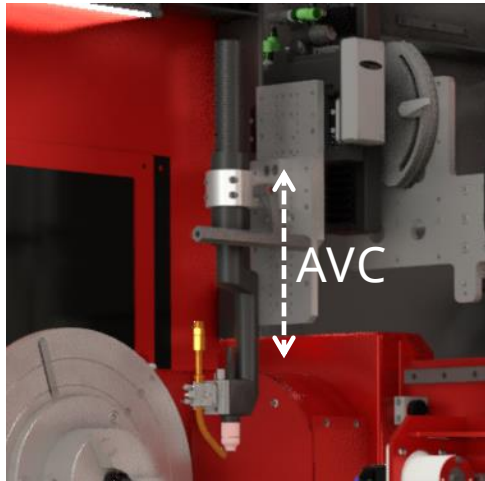


Rail-guided
manual side doors



Crane loading

Individually positionable



Welding equipment

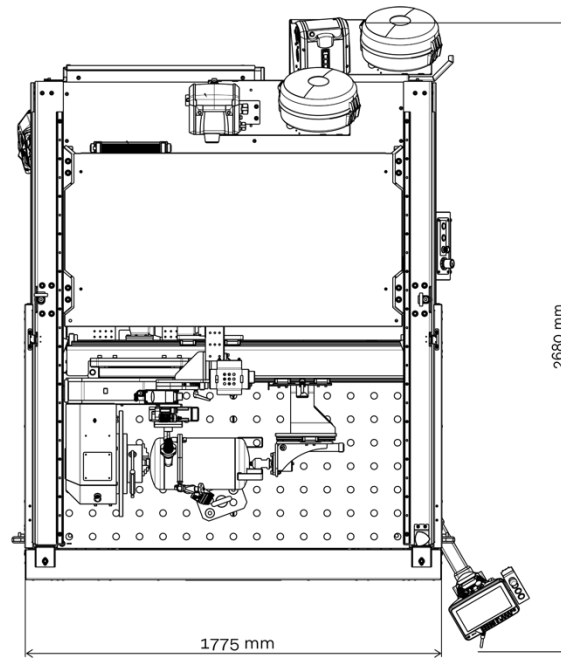
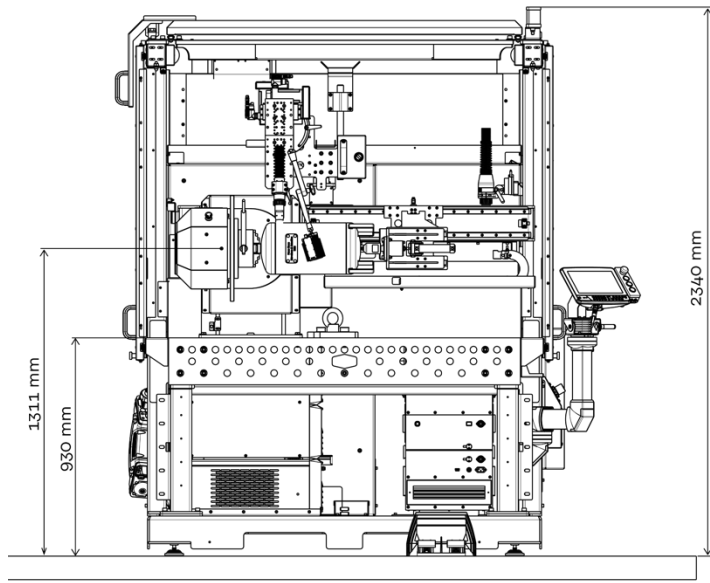
TIG TT/MW:

- iWave
- Cooling unit CU
- CWF

MIG/MAG/CMT:

- TPSi
- Cooling unit CU
- WF





Technical data

Power / Air supply:

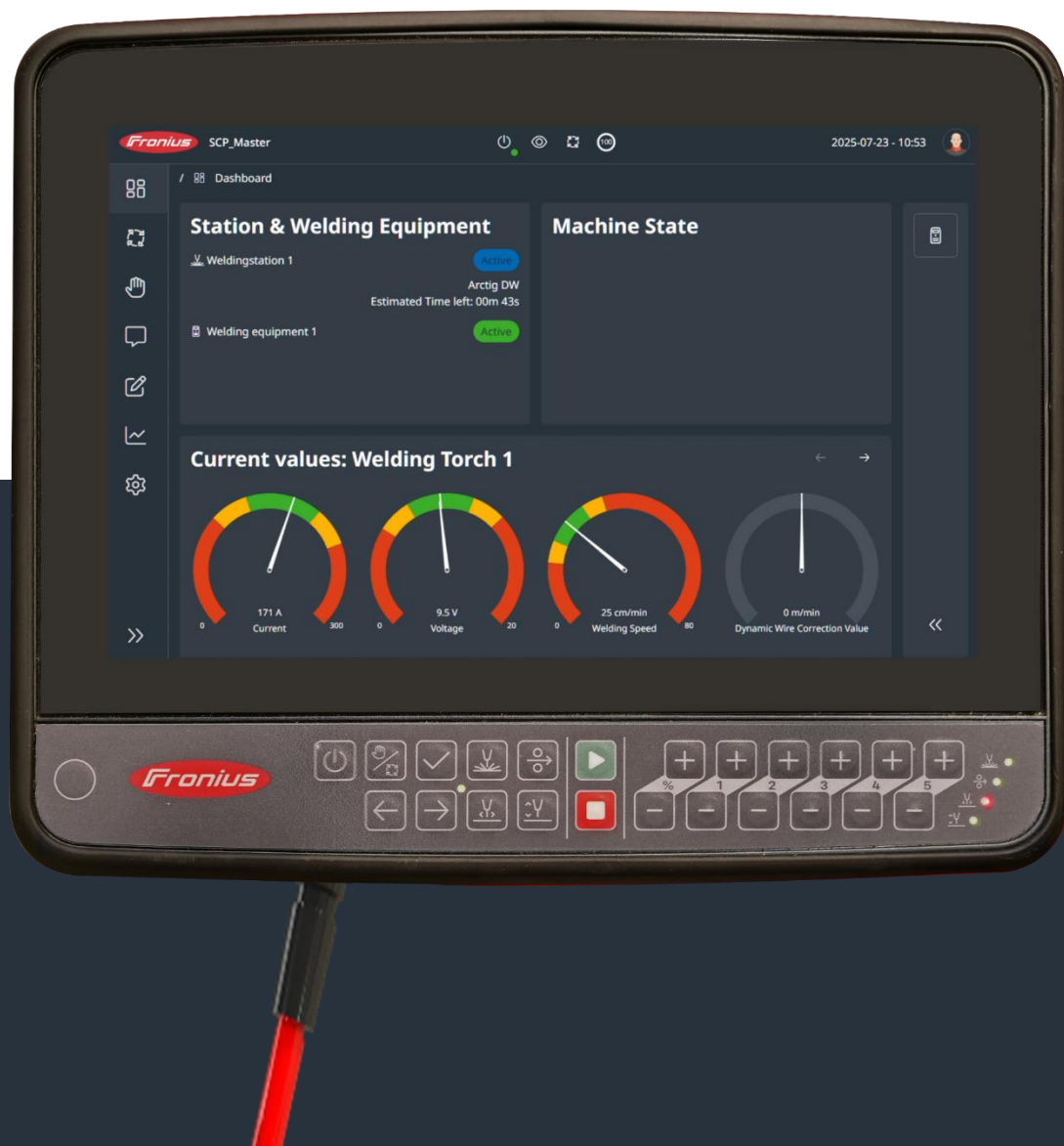
- Mains voltage: 400V/N/PE 50-60 Hz
- Power consumption: 15 kVA
- Compressed air: 6 – 7 bar

Dimensions / Weight:

- Dimensions B x T x H: 2340 x 2680 x 2336,5 mm
- Weight: ca. 2800 kg

Max. Part dimensions

- L= 1000 mm (without tailstock)
Ø= 450 mm
- Max. distance Chuck → torch: 570 mm
- Weight: 300 kg



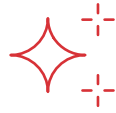
Polaris



Next-generation system control

- 10" mobile panel with multi-touch screen
- Full access to power source parameters
- Easy programming via drag & drop
- Perfect quality management due to welding data recording

Polaris



Everything at a glance

The dashboard provides a quick overview of:

- Status of the welding station
- Remaining welding time
- Current process data in real time



Polaris ✨

Sequence programming made easy

- Library with ready-made modules and templates
- Easy drag & drop



Polaris ✨

Direct access to welding parameters

Access all welding parameters directly on the Polaris control panel. All settings are synchronized with the welding power source in real time.



Polaris ✨

Guided program sequence

Visual assistance as support during program execution



Polaris ✨

Process data in real time

- Visual display of all relevant welding process data in real time
- Direct adjustment option



Polaris ✨

Record welding data

The integrated data recording function provides a detailed analysis of the welding process. Ideal for quality assurance.



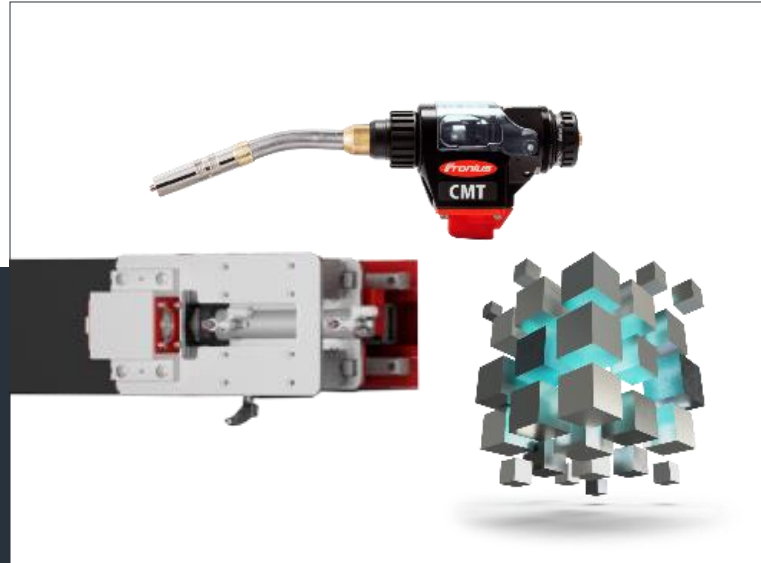
Options /
Accessories

Basic equipment / Options



Basic equipment:

- Base frame with welding table
- Rotation unit with welding head
- TIG/MAG/CMT welding equipment
- Protection cabin
- Polaris Mobile Panel MC10



Options

- Tailstock
- Push Pull CMT TPS400i
- Fume extraction
- Weldcube
- Gripper chucks
- Camera system



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