

WeldCube Navigator



Logical and simple
guidance to unleash your
welding potential

Logical & simple

High-quality welds are essential for many products. Faulty or missed welded joints lead to high manufacturing costs. The earlier these faults are identified in the manufacturing process, the quicker it is to respond to them. Using the guidance and job pre-setting functions of the WeldCube Navigator can shorten the training and familiarization period for new welding specialists. This not only saves resources but also time and money. This is how the WeldCube Navigator helps you to unleash your welding potential.

WeldCube Navigator – Real-time feedback solution for welding specialists

WeldCube Navigator helps to standardize manufacturing processes and avoid errors, increasing the quality of production. In a pre-defined step-by-step guide, the welding specialist is guided safely through their tasks at the workstation. The work steps to be completed are visualized on a suitable display and the correct welding parameters are directly set on the power source. It is easy to operate using the buttons on the Fronius welding torch.

Better control for better results: WeldCube Navigator supports you step-by-step in the manufacturing process. A visualization of the work steps and the pre-set defined welding parameters offer maximum support and minimize the risk of error.



The benefits for you



Improve
welding quality

Incorrectly used welding parameters or failing to follow the correct welding sequence can be challenges in the manufacturing process. With WeldCube Navigator you can avoid distortion or using incorrect welding parameters.



Shorten training
and familiarization
period

Supported by the WeldCube Navigator, new welding specialists can quickly get started in manufacturing. The WeldCube Navigator specifies which seams are to be welded using which parameters.



Respond to
errors quickly

It is important to act quickly in the case of problems, particularly for safety-critical or multirun welds. By taking immediate corrective action, the number of rejected parts or time-consuming repair work can be minimized or even avoided entirely. WeldCube Navigator is able to halt further welding if there is an error until the affected seam is checked by a welding supervisor and the system is released again.



Two functions in
one tool

2 in 1: The sequencer guides the welding specialist through the work process step-by-step, and the instructions required for this are digitally created in the editor.



The sequencer

guides you clearly and simply through all welding tasks.



- 1 Log in to WeldCube Navigator and select the work instructions.



- 2 Step-by-step: A display visually shows the work steps in the defined order and the corresponding welding parameters are automatically set.



- 3 Live monitoring and error alerts enable a quick response and correction if necessary to minimize waste and rework.



- 4 Torch navigation for MIG/MAG and TIG: Users can operate the software 100% using the torch trigger while they are working.

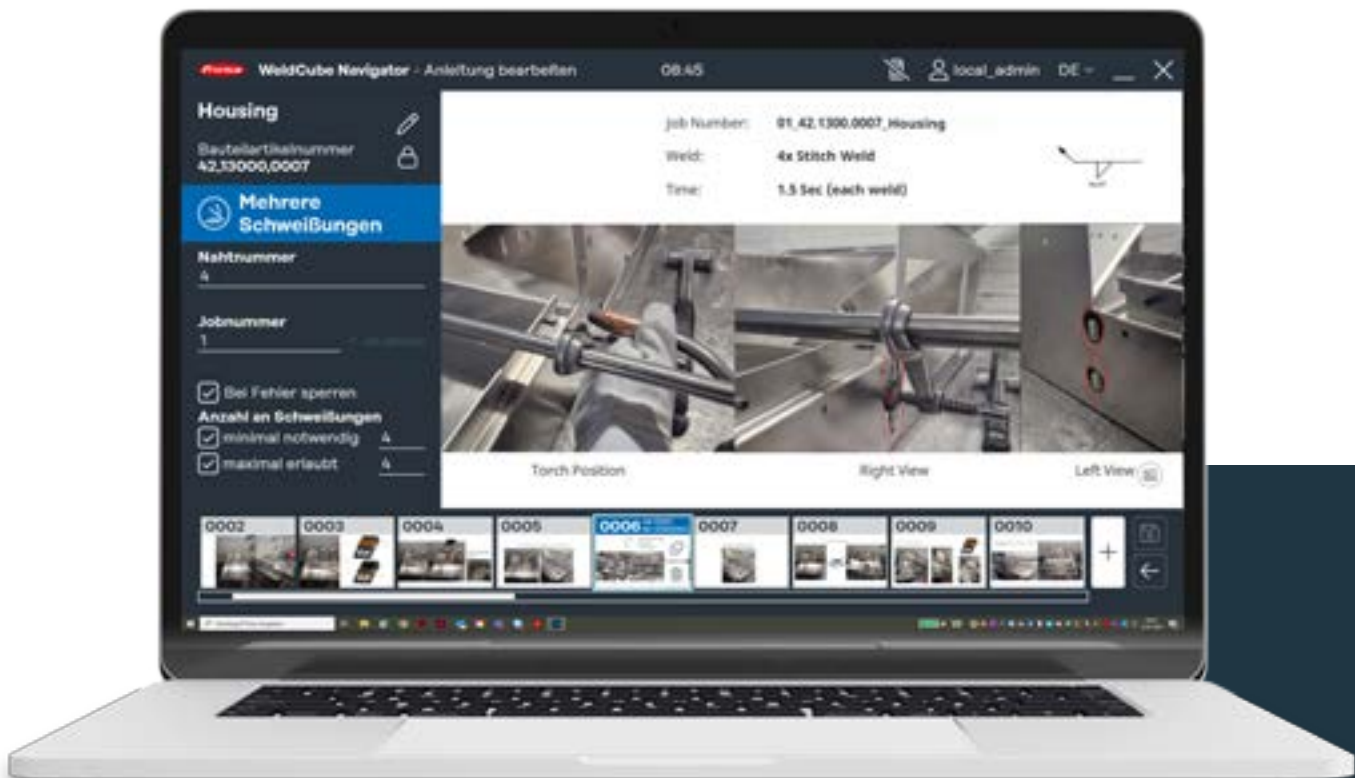
Complete

The editor

digitizes and visualizes your work instructions for manufacturing.

Create and save digital work instructions for manual welding production:

- Individual illustrations for each work step offer maximum flexibility with regard to the information provided.
- Specifications such as the number of allowed seams, predetermined welding job, and response in the case of an error can be defined for welding steps. When using systems with the WF25i Dual, the definition of welding job to work step also controls which process line is automatically activated on the system.
- General work steps can be used to define preparatory tasks, intermediate steps, and rework.



From the first weld to the last:

e control

Maximum flexibility



Compatible with
**TPS/i &
iWave**

No matter whether you're performing MIG/MAG or TIG welding— you can use WeldCube Navigator with the TPS/i, the iWave, and the WF 25i Dual. When used in combination with our high-end welding systems, the software optimally supports the production of high-quality welds and keeps flaws to a minimum.

For seamless integration into your manufacturing processes: Additional digital solutions in the Fronius WeldCube portfolio add further functionality for the WeldCube Navigator and provide optimal support in unleashing your full welding potential.

Central user management

Minimal administration and maximum overview: You can assign individual authorizations to each user via the authorization system integrated into every Fronius welding system. When someone logs in with a key card or fob, the system immediately knows what they are – and are not – allowed to do. Wondering how you can assign and manage authorizations centrally for several welding systems? Central User Management, a stand-alone solution from the WeldCube portfolio, provides the answer. With just a few clicks user rights are defined centrally for one or more welding systems and the relevant information is automatically sent to all connected systems.

Data management

WeldCube Premium: central data documentation

Based on the welding data from all connected welding systems, WeldCube Premium offers intelligent management, analysis, and statistical functions, as well as graphical visualization of the results.

This means, for example, that an entire component could be visualized live and progress monitored during fabrication.

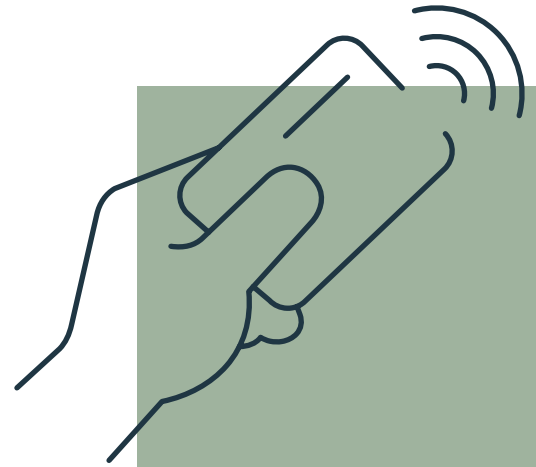
Integrated into the rework station, WeldCube Premium indicates the need for action and offers the option of setting the status of a seam/component to “OK” following successful repair.

WeldCube Air: cloud-based data documentation

WeldCube Air is the cloud-based solution for the central recording of welding data. Access to your welding data is easy and straightforward with any device with an internet connection.



For more information, please visit:
www.fronius.com/weldcube-navigator.



For today, tomorrow, and beyond

By using modern technology, we help take the pressure off people and the environment, and safeguard the future for subsequent generations. The digitization of manufacturing instructions and their visualization via suitable displays eliminates the need to work with paper and print instructions. This not only saves resources but also time and money.

Functions

Functions	WeldCube Navigator	Upgrade options
Weld sequencing for manual welding		
Log in to welding system and WeldCube Navigator with Fronius key card or key fob (optional: customer-specific key cards)	•	• Central User Management
Workflow – visual guidance through the welding process based on a pre-defined sequence	•	
Real-time alerts in case of an error (missed/incomplete seams, limit violations)	•	
Specification of welding parameters (jobs) for defined welding tasks	•	
Automatic setting of specified jobs during welding	•	• OPT/i Jobs for the creation and management of jobs on a PC
Lock facility in the case of an error: if desired, further welding can be disabled until a supervisor releases it.	• OPT/i Limit Monitoring to monitor for limit violations	
Torch navigation: The software can be operated via the welding torch	• Fronius JobMaster or Up/Down torch	
Import and export work instructions	•	
Traceability and data documentation		
Local recording on the welding system and tabular visualization using SmartManager including export options	• Average value for each weld seam	• OPT/i Jobs, OPT/i Documentation, OPT/i Limit Monitoring
Central solution for welding data documentation and graphic visualization		• WeldCube Premium, WeldCube Air

Unleash your welding potential

To ignite the welding potential of our customers: that is our mission. As the innovation leader for arc welding and global market leader for robot-assisted welding, we create both advanced and profitable welding solutions, which are inspired by our sustainable mindset. We enjoy long-standing relationships with our customers. We understand their challenges and perspectives and maintain a close relationship with them through our regional service teams throughout the world. We listen, understand, and help shape the mindset of the welding industry. Our strength lies in combining the knowledge of our customers with our expertise in order to unleash their full welding potential.

Fronius Canada Ltd.

2875 Argentia Road, Units 4,5 & 6
Mississauga, ON L5N 8G6
Canada
T +1 905 288-21 00
F +1 905 288-21 01
sales.canada@fronius.com
www.fronius.ca

Fronius USA LLC

6797 Fronius Drive
Portage, IN 46368
USA
T +1 877 FRONIUS
sales.usa@fronius.com
www.fronius-usa.com

Fronius UK Limited

Maidstone Road, Kingstons
Milton Keynes, MK10 0BD
United Kingdom
T +44 1908 512 300
info-uk@fronius.com
www.fronius.co.uk

Fronius International GmbH

Froniusplatz 1
4600 Wels
Austria
T +43 7242 241-0
F +43 7242 241-95 39 40
sales@fronius.com
www.fronius.com