THE PROFESSIONAL
COBOT WELDING
AUTOMATION SOLUTION

OUR PERFORMANCE
makes THE DIFFERENCE

DEMMELER COBOT WeldSpace 4.0® HOUSE 40/20

Flexible and versatile welding automation solutions

DEMMELER SYSTEM COMPATBILITY



EN

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Up to two working areas with a maximum cylindrical component size of approx:

3,5 x 1,5 m

3D welding tables can be moved on DEMMELER base rails

DEMMELER® COBOT WeldSpace 4.0® HOUSE 40/20

Maximum flexibility in COBOT welding

The COBOT WeldSpace 4.0® HOUSE from DEMMELER clamps and welds components up to a length of 3.5 metres with reliable repeat accuracy and lasting precision. Whether individual parts, series or small batch sizes with a large variety of parts – you save time during welding and reworking. The fully equipped welding cell with welding robot and welding technology offers scope for unique modularity and flexibility with a wide range of optional configuration options.

Technical specifications of cell	
External dimensions of cell	Approx. 4450 x 2560 x 2740 mm
Weight	3500 kg
Dimensions of workspaces	
Dimensions of SPACE A	3500 x 1500 x 2000 mm
Dimensions per workspace SPACE A1/SPACE A2	1500 x 1500 x 2000 mm each

Linear axis fully integrated in the cobot control



The linear axis, which is fully mathematically integrated into the cobot controller, enables complex and efficient processing of even the most demanding components.

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Product Highlights

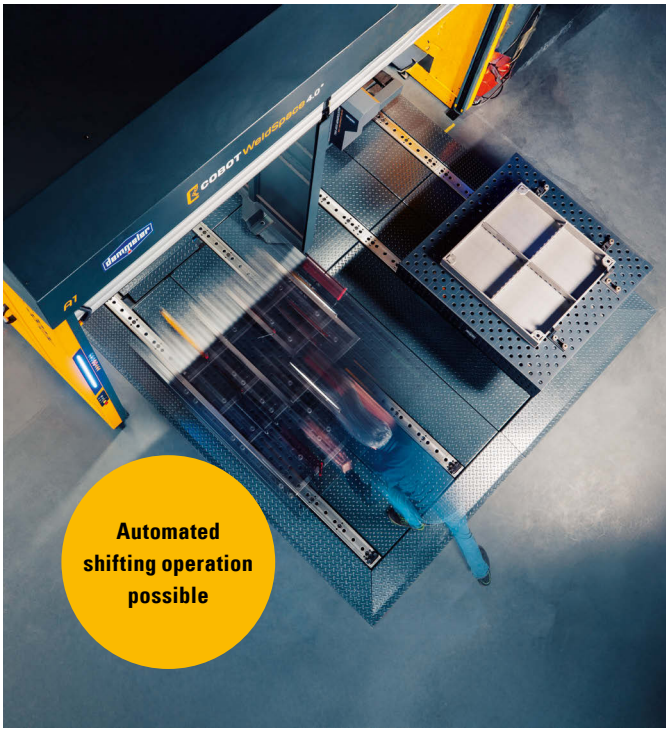
- The Fanuc CRX collaborative welding robot travels on a dynamic linear axis
- Large workspace 3500 x 1500 x 2000 mm for ultimate flexibility
- Option of two separate workspaces with dimensions of 1500 x 1500 x 2000 mm each thanks to removable partition wall and four roller shutter doors
- Optional DEMMELER two-axis manipulator with load capacity of 500 kg
- Can be optionally configured with the DEMMELER base rail system for shuttle operation
- Can also be optionally configured for automated shifting operation

Maximum productivity: Individually configurable workspaces

Two-axis manipulator / 3D welding table 1500 × 1500 mm
- Welding areas are split by the partition wall
- Shuttle operation between SPACE A1 and A2
- Roller shutter doors close automatically and separately during the welding process
- Both workspaces can be optionally configured with the DEMMELER base rail system
- Tilt and rotation axis fully mathematically integrated in cobot control system

Two 3D welding tables each with dimensions of 1500 × 1500 mm
- Two workspaces split by a movable partition wall
- Shuttle operation between SPACE A1 and A2
- Roller shutter doors close automatically and separately during the welding process
- Both workspaces can be optionally configured with the DEMMELER base rail system

3D welding table 3500 x 1500 x 2000 mm
- Large workspace
- Roller shutter doors close automatically during the welding process
- Can be optionally configured with the DEMMELER base rail system





Equipment that is perfectly tailored to your specific tasks.

Perfectly coordinated welding processes

- Welding systems designed for the COBOT WeldSpace 4.0®
- Robot welding equipment from the Fronius brand
- Extensive job libraries
- Integration and software extension of the DEMMELER WeldSoft F 1.0 software
- Input of the welding jobs from the power source and simple selection using a list on the control panel



High-quality welding robots

FANUC CRX Cobot:
User-friendly collaborative robot for users with little or no robotics experience.



Intuitive programming and operating concept

Professional welding software with numerous features for industrial welding, such as arc sensor, tactile sensor, etc. Programming and teaching of points using the Teach Pendant user interface for pass-through teaching and easy drag-and-drop programming.



Maximum safety

COBOT WeldSpace 4.0® contains all safety-relevant equipment:

- Protective enclosure with protective welding glass and roller shutter doors made from aluminium cladding with viewing elements
- Depending on the model, protective devices such as safety light grids and curtains, as well as protective welding walls

Maximum productivity with the smallest footprint

- Practical layout and optimum utilisation of the working space
- The welding cell can be configured in three different standard versions as well as clamping or positioning options, depending on the welding requirements

Ultimate flexibility and efficiency

- The cell can be flexibly integrated and adapted to changing requirements
- You have access to the comprehensive selection of DEMMELER accessories to set up your clamping fixtures as well



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DEMMELER® WeldSoft F 1.0

Simple programming via drag-and-drop

Whether you are an experienced programmer or a beginner – the professional welding software DEMMELER® WeldSoft F 1.0 offers numerous features for industrial welding, such as arc sensor, tactile sensor, etc. Programming and teaching of points using the Teach Pendant user interface for pass-through teaching and easy drag-and-drop programming.

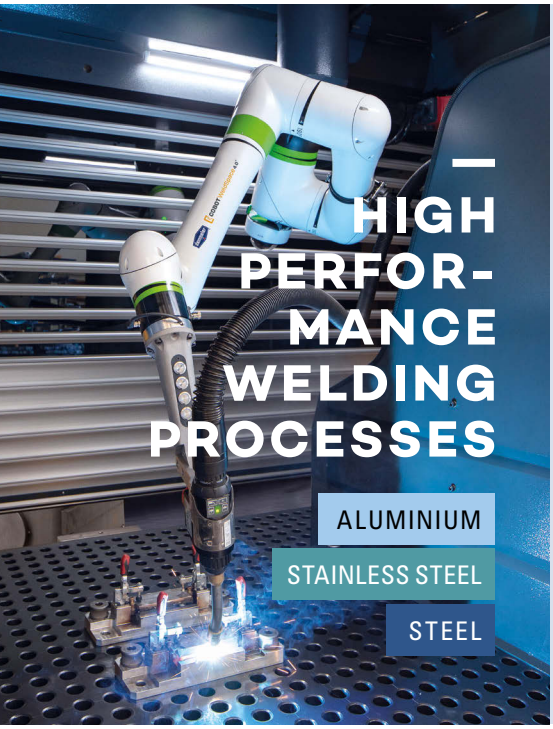


Perfect interaction: The control system of the COBOTS



Easy programming with the Tablet Teach Pendant

Clear programme management with display of various parameters
- Current runtime component
- Job runtime
- Arc time



DEMMELER® job library

All COBOT and welding parameters in one place

Extensive protected DEMMELER® job library – High-performance welding jobs developed in DEMMELER's welding laboratory

Registered users can use the job library of the DEMMELER® WeldSoft F 1.0 software to access over 100 protected welding jobs with all the important parameters matched to the material, power source and welding process. You can also view the videos on the welding processes via QR codes on the stored data sheets.

Type of welding seam depending on material

Fillet weld | **Overlap weld** | **Corner weld** | **Vertical weld**

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HIGH PERFORMANCE+



3D CLAMPING SYSTEMS
MANIPULATORS
COBOT WELDSPACE 4.0®
NC ROTARY TABLES
TOOL ARENAS
CONTRACT MANUFACTURING






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Service expertise at DEMMELER:
Thanks to their reliable design and construction, our products require only minimal service and after-sales support. Nevertheless, a service hotline, worldwide spare parts delivery and direct on-site assembly at the customer's premises are part of our range of services.

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