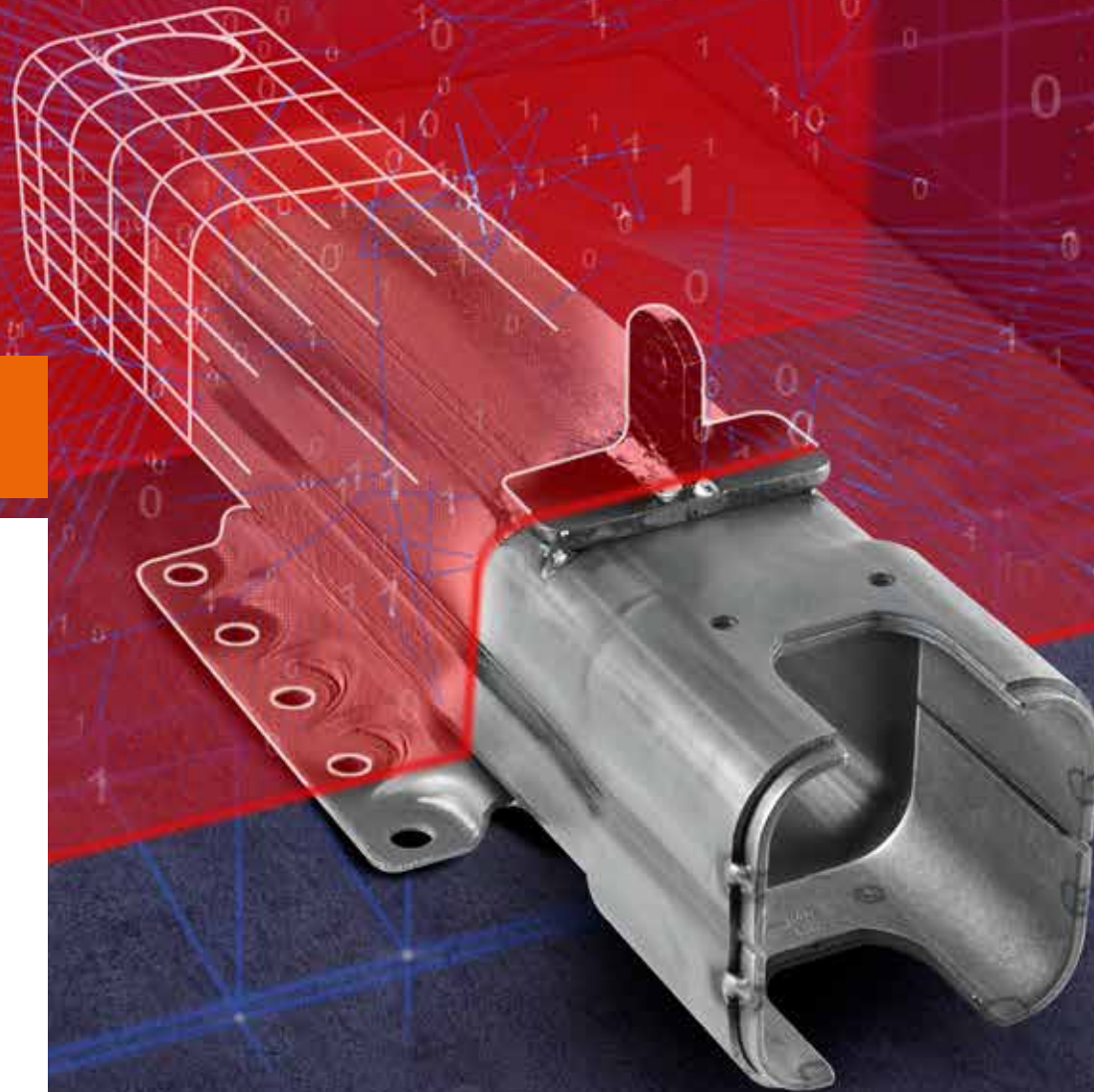


QIROX RoboScan

Efficient welding of small batch sizes with minimum programming expenditure

CLOOS

Weld your way.



QIROX RoboScan

You wish to weld the smallest batch sizes efficiently and automated? Because of component tolerances and a large variety in steel and metal construction, the programming expenditure for automated welding of small batch sizes is often disproportionately high. With QIROX RoboScan you create programs for automated welding in a short time. So the automated welding of workpieces in batch size 1 pays off now.

The advantages of QIROX RoboScan at a glance:

Minimum programming expenditure

- Enormous saving of time
- Increase of the system efficiency
- CAD workplace not necessary

Recognition of position and tolerances of the workpiece

- Excellent weld quality
- Saving of time because re-teaching is not necessary

Reduction/Absence of the clamping device

- Reduction of the investment costs
- Minimisation of non-productive times

Shortening of planning times

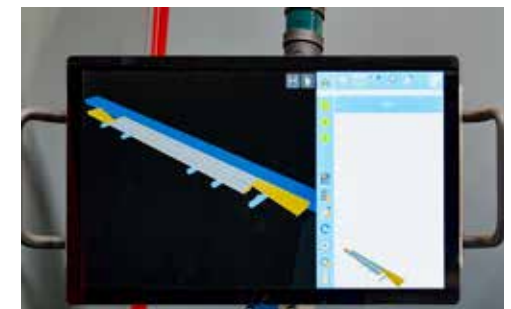
- Just-in-time production
- Reduced personnel and material binding
- Quick delivery periods

Intuitive operation

- Flexible use of personnel and minimum training expenditure
- Only minimal robot programming and welding knowledge required

Automated welding of workpieces in batch size 1

- Recognition of position and tolerances of the workpiece

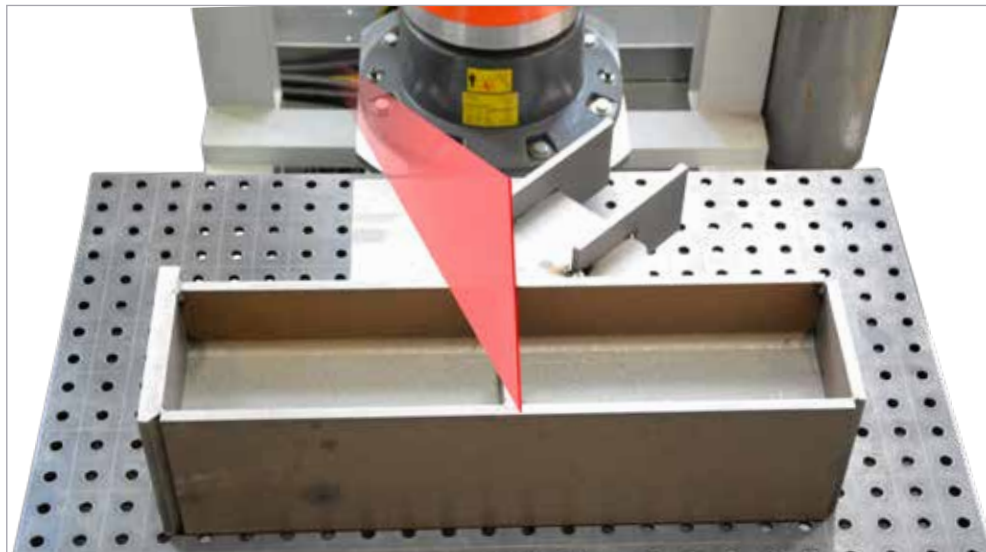


That's how it works:

- 1. Placing**
The operator freely positions the tacked workpiece on the robot working station.



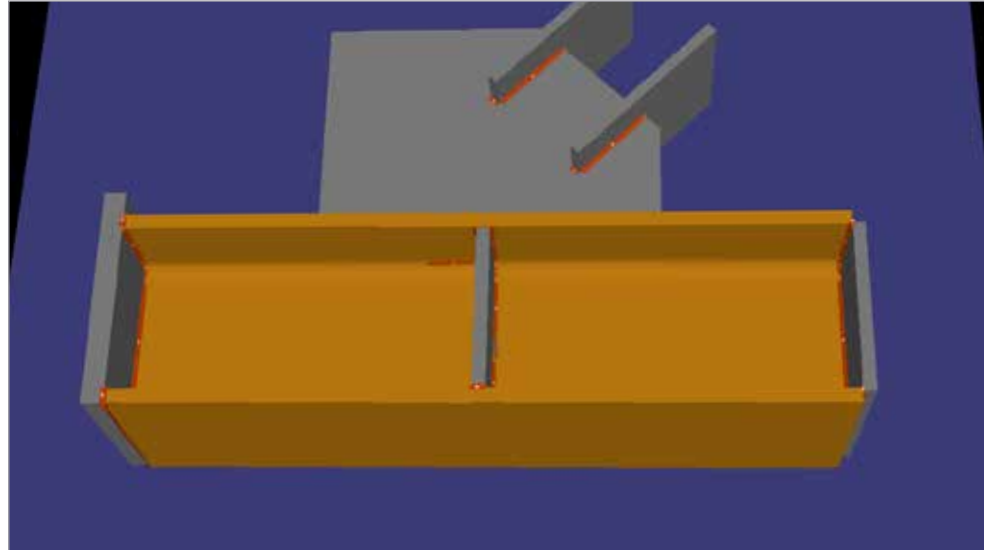
- 2. Scanning**
The scanner mounted at a linear track scans the working surface of the robot system and saves the result.



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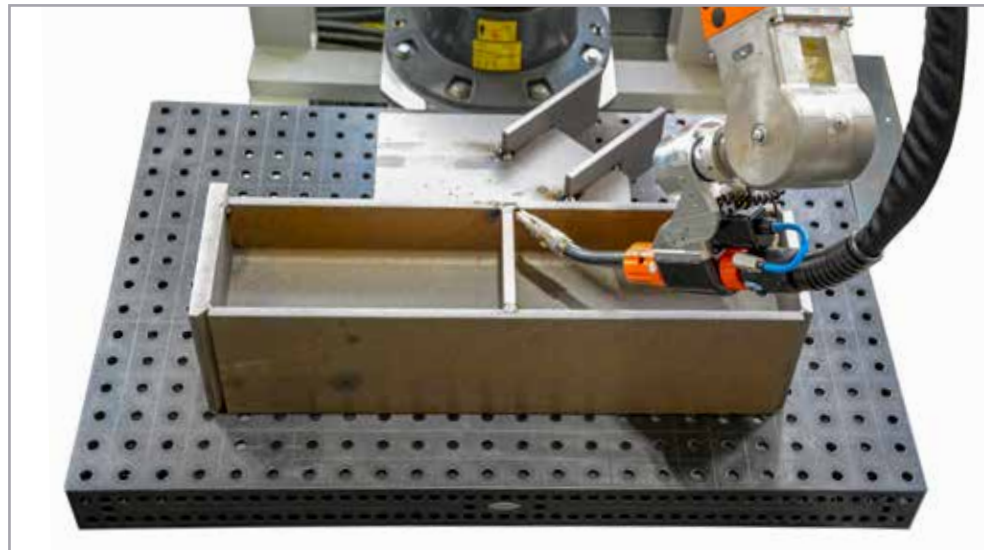
3. Visualising

QIROX RoboScan converts the stored data from the scanner into a 3D model. The welding program is automatically generated from the comparison of the 3D model with the component geometry stored in QIROX RoboScan. All robot movements are checked for collision. Then the QIROX RoboScan sends the completely generated program including all welding data to the robot controller.



4. Welding

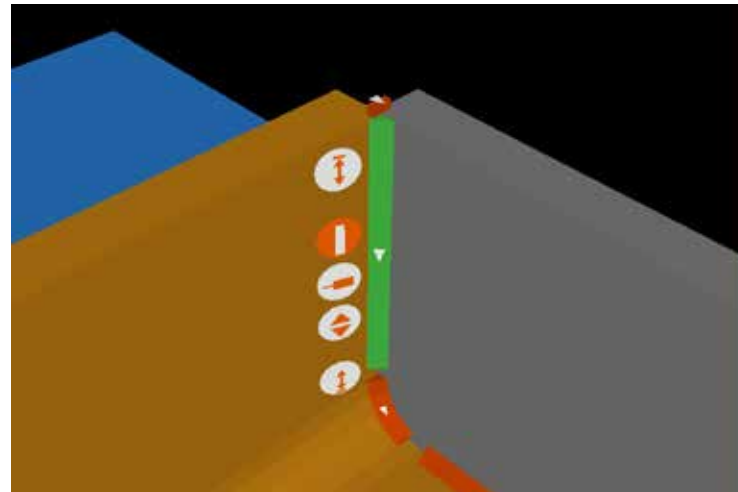
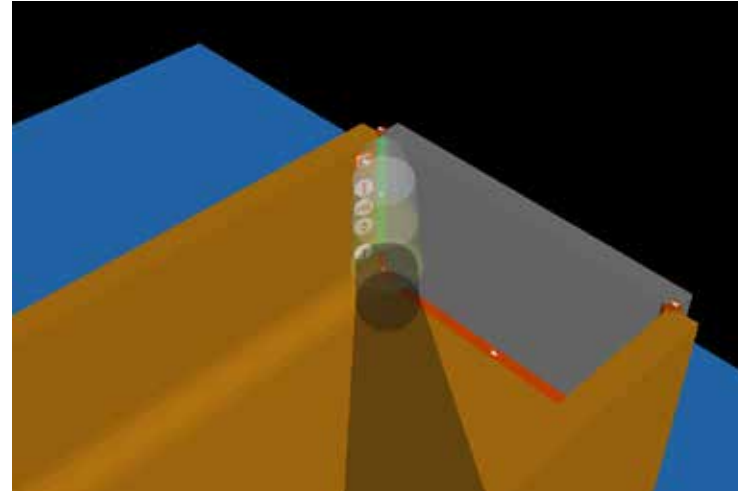
Welding is automatically started.



Check and change

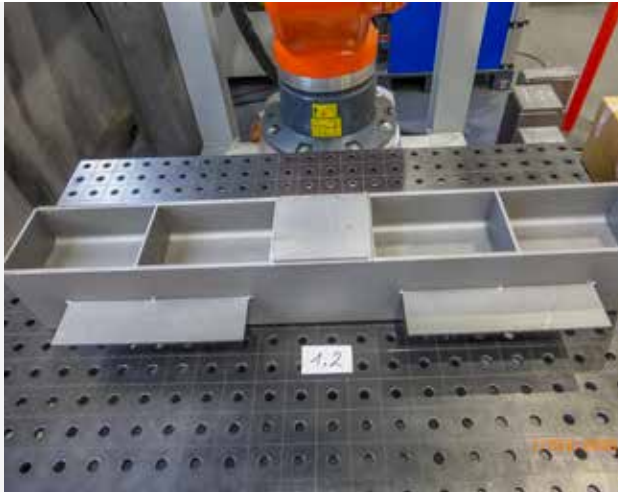
QIROX RoboScan has many functions available so that you can process the generated 3D data of the workpiece at the screen simply and intuitively:

- Weld length
- Weld direction
- Welding order
- Angle and distance of the torch to the weld
- Changes of the welding parameters
- Set tack points
- Insert tactile 2D search runs
- Create paths for multi-layer welding



Typical components

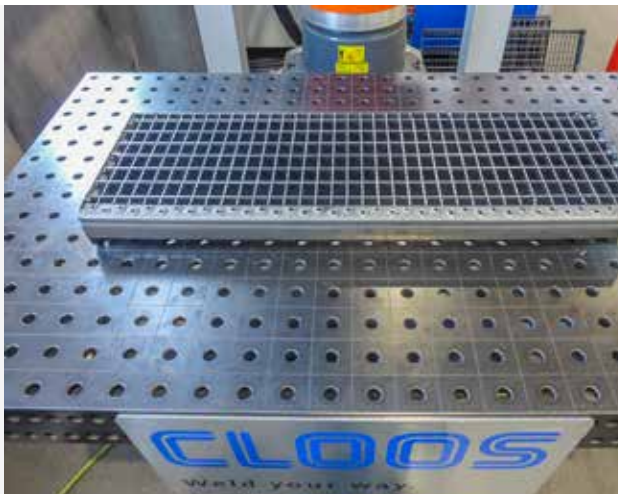
Steel beams



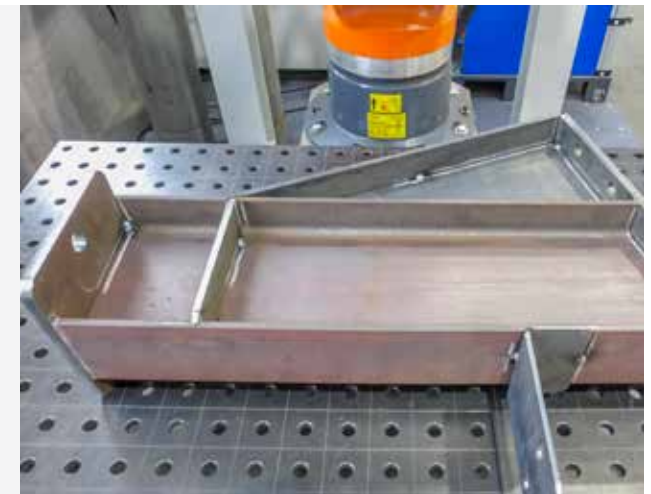
Railing



Grating



Gusset plate

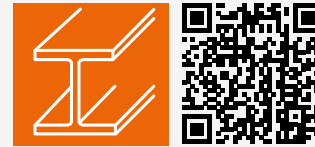


References

Steel beams



Gusset plate



Grating



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