

IRPS Instant Robot Programming System

Efficient welding of small batch sizes with minimum programming expenditure

CLOOS

Weld your way.

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Instant Robot Programming System

IRPS:

Instant Robot Programming System IRPS

You wish to weld the smallest batch sizes efficiently and automated? Particularly in steel and metal construction, the programming expenditure for automated welding of small batch sizes is often disproportionately high. Use the IRPS Instant Robot Programming System to create programs for automated welding in a short time. So the automated welding of workpieces in batch size 1 pays off now.

Overview of the IRPS benefits:

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
- Knowledge of robot programming and welding not necessary

Check and change

The IRPS 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

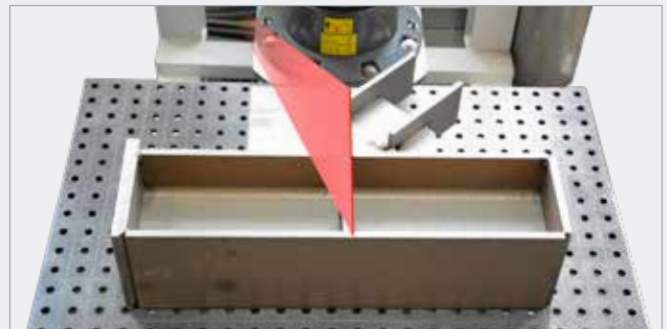


That's how it works:

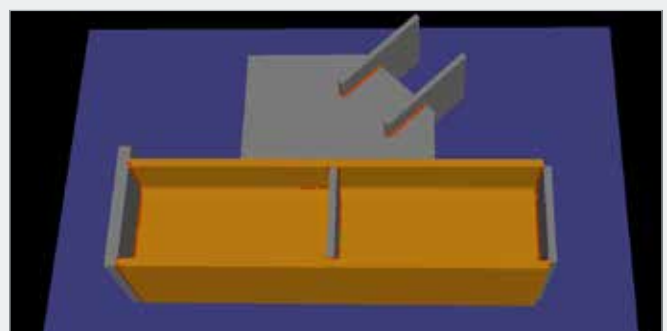
- 1.** **Placing**
The operator freely positions the tacked work-piece on the robot working station.



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



- 3.** **Visualising**
The IRPS converts the saved scanner data into a 3D model. From the comparison of the 3D model with the component geometry saved in the IRPS the welding program is generated automatically. Then the IRPS sends the completely generated program including all welding data to the robot controller.



- 4.** **Welding**
The operator starts welding via a button at the IRPS screen.



All over the world!



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