

MANY ROBOTS COUNTLESS DATA ONE ACCESS

RoboLive® is our solution for the commissioning, analysis, and quality assurance of robotic production processes.

PROCESS VISUALIZATION

Process Visualization automatically links all existing data and visualizes it on a CAD model of the product.

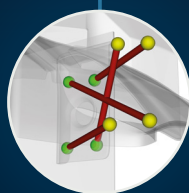
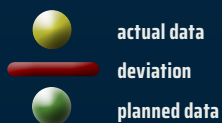
It provides access to all the relevant information needed to understand your production processes.

All parties involved can see, understand and implement the necessary corrective actions.

With the timeline, all previous conditions can be checked and compared.

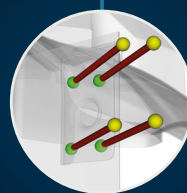
The screenshot displays the RoboLive software interface. At the top, there are navigation tabs like 'Einstellungen', 'Ergebnisse', and 'Hinweise'. Below that, a sidebar on the left contains a tree view of 'Produktaufbau' (Product Structure) and 'CAD-Komponenten' (CAD Components). The main area shows a 3D CAD model of a car chassis with numerous green data points overlaid. Below the model is a data table with columns for 'Nom. Varianten', 'Nom. Linie', 'Nom. Station', 'Nom. Roboter', 'Nom. Process ID', 'Nom. Typ', 'Nom. Verbindungstyp', 'Nom. X (mm)', 'Nom. Y (mm)', 'Nom. Z (mm)', 'Nom. W (deg)', 'Nom. P (deg)', 'Nom. R (deg)', and 'Nom. Länge (mm)'. A timeline at the bottom shows a sequence of events from 2022-01-03 to 2022-01-26. A blue circle highlights a specific point on the timeline, which is linked to a detailed view of a component in the bottom row of the interface.

Nom. Varianten	Nom. Linie	Nom. Station	Nom. Roboter	Nom. Process ID	Nom. Typ	Nom. Verbindungstyp	Nom. X (mm)	Nom. Y (mm)	Nom. Z (mm)	Nom. W (deg)	Nom. P (deg)	Nom. R (deg)	Nom. Länge (mm)	Tat. ^
	I1DAGH	420	420RB_100	11094183	Punktschweißen	Enschranken	-21.52	-234.914	-270.892	-92.577	43.434	86.255		I1Dv
	I1FRA4	420	420RB_100	11091761	Punktschweißen	Verstärken	977.452	-550.758	490.124	89.702	-7.205	-87.625		I1FF
	I1FRA4	420	420RB_100	11091762	Punktschweißen	Verstärken	1022.22	-549.998	-496.512	89.61	-11.559	-88.042		I1Fv
	I1FRA4	420	420RB_100	11091763	Punktschweißen	Enschranken	1265.914	-544.527	492.922	89.61	-11.559	-88.042		I1Fv
	I1FRA4	420	420RB_100	11091764	Punktschweißen	Verstärken	1109.689	-542.264	500.947	89.743	-11.388	-88.699		I1Fv



Starting situation

Condition after robot programming



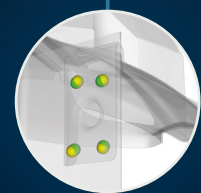
1st step

Correction of the designation



2nd step

Correction of the frame data



Final result

Correction of the actual data

PROBLEMS FROM OWN EXPERIENCE

Plant free of defects at acceptance?

Before the system is handed over from the system integrator to the manufacturer, the robot programs are inspected and compliance with the standards is analyzed. A visual comparison of nominal and actual data can only be partially established by time-consuming re-measurement, which means that various deficiencies remain undetected.

Constant deficiencies during operation?

Manual documentation and tracking of necessary changes to the robot programs are time-consuming and error-prone. A visual overview of all processes and their development does not exist. Instead, an increasingly elaborate quality assurance cycle occurs to reduce resulting product defects

Dependent on the only expert?

The operations in a complex production plant are difficult to understand, even for experienced technicians. While operating and observation programs have been available at the control level for a long time, no visual help has existed for robots so far, so that only a few specialists really know how to deal with them.

ELEMENTS



Process Visualization

Get an overview of all relevant information to understand your production processes!



Vehicle-0 Determination

Correct origin and orientation of the robots' frames of reference. Without laser measurement!



Software Overview

Get all robot-specific information and data in tabular form!



Robot Documentation

Create technical manuals for each robot automatically!

ROBOLIVE

A SOLUTION OF DRESSLER AUTOMATION

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