ROBOLIVE

A SOLUTION DEVELOPED BY DRESSLER AUTOMATION

DRESSLER

AUTOMATION

We cover the entire electrical domain of manufacturing automation with our services and products for more than 50 years.

DESIGN

Electrical system design and schematic drawings

TRAINING

Ramp-up production support and specific training programs.

PROGRAMMING

Applications, controls, and robots

PLANNING

Specifications development and project management

COMMISSIONING

Virtual and on-site, controls and industrial robots.

A SOLUTION 50 YEARS IN THE MAKING

A few years ago, we were looking for a way increase the efficiency of our own robot programming. We were tired of:

- Manually programming from scratch due to differences between reality and simulation
- Optimizing processes iteratively because of missing insights of root causes
- Losing connection between reality and simulation

RoboLive® began as an internal project and has grown into a software solution for all.

ROBOLIVE

TRANSPARENCY FOR YOUR PRODUCTION ROBOTS.

RoboLive® is a one-stop solution for the commissioning,
analysis, and quality assurance of your robotic production processes.

ONE SOLUTION

We customize it to your needs.
Your product, your IT, your standards.

ONE INTEGRATION

We arrange your data and set it up.
You don't worry, just work simplified.

ONE TOOLSET

Add required elements to the numerous
functions offered by our core element.

ONE PURPOSE

We help to increase your efficiency.
Expect a high ROI within months.

ROBOLIVE

FIVE ELEMENTS, ONE SOLUTION.

Supplement RoboLive®'s core element Process Visualization with whatever specific element you need.

PATH CALIBRATION

Align theoretical paths to your equipment.

VEHICLE-O DETERMINATION

Get accurate coordinates mathematically.

PROCESS VISUALIZATION

Access all your robotic process data.
Anytime, anywhere, in 3D space.

SOFTWARE OVERVIEW

Summarize the current plant status.

ROBOT DOCUMENTATION

Produce manuals with one click.

PROCESS VISUALIZATION

RoboLive® gathers, processes, and distributes all your robotic process data, automatically. Get critical insights at a glance, with no additional effort:

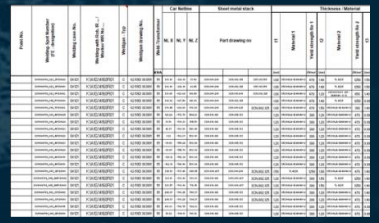
- Planned instructions versus real-time data on 3D model of your product
- Complex parameters for process like welding and gluing
- Comparison of plant status due to tracking of all robot programming activities

Process Visualization is simple, accessible, and accurate: Any personnel, rather than just trained specialists can understand issues and fixes.

CURRENT WAY TO UNDERSTAND DEVIATIONS.

1ST: RANDOM TEST SHOW ERROR

2ND: COMPARE PART WITH PLANS



3RD: IDENTIFY ROBOT FOR PROCESS

4TH: STOP PRODUCTION

5TH: ROOT CAUSE ANALYSIS

All of this adds up to avoidable outcomes:

DOWNTIME, BAD PARTS, AND ADDITIONAL WORKLOAD

ROBOLIVE

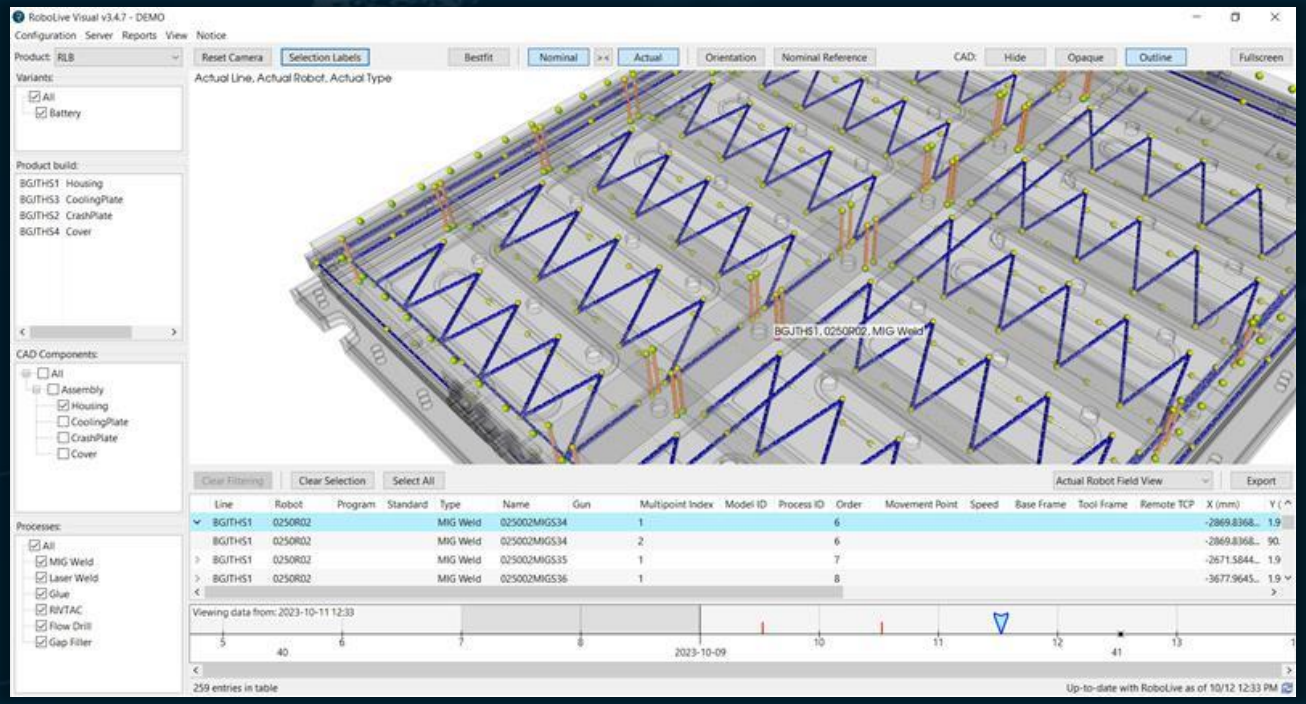
ONE INTERFACE, ALL ROBOTIC PROCESS DATA.

DISTRIBUTION

Distribution of robot data of all products via clients

OVERVIEW

Filter by components, join types and process points



VISUALIZATION

Visualization of all process points on 3D model of the product

INFORMATION ACCESS

Detailed listing of all process and their parameters

TIMELINE

Comparison of states and tracking of changes

DATA SERVER

Automated synchronization with all robots via central data management

ROBOLIVE

MAKE YOUR DATA WORK FOR YOU.

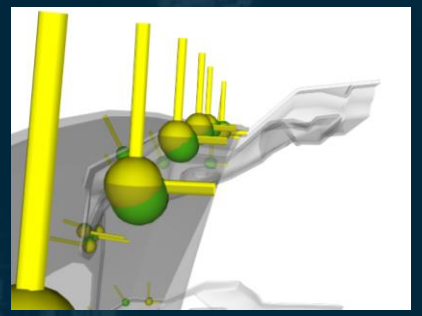
DURING COMMISSIONING

- Checking the robot programming
- Automatic documentation of progress
- Comprehensive insights for simplified handover

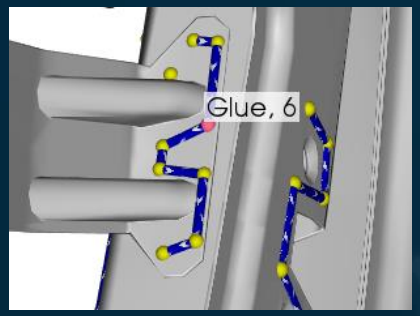
DURING OPERATION

- Automatic process points change detection
- Offline process analysis without standstill
- Simplified correction of weak points

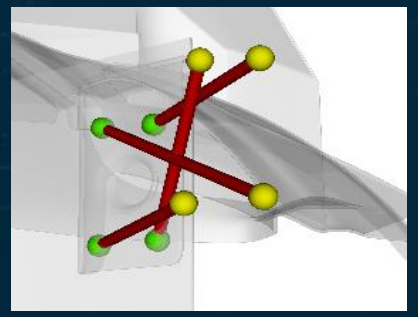
COMMON ISSUES THAT ROBOLIVE® DETECTS:



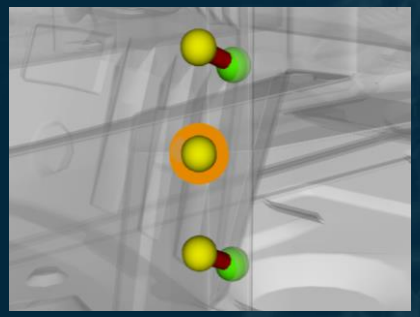
TOOL ORIENTATION



SEAMS & JOINT LABELS



SWAPPED IDS & WRONG FRAMES



DEVIATIONS & MISSING LINKS

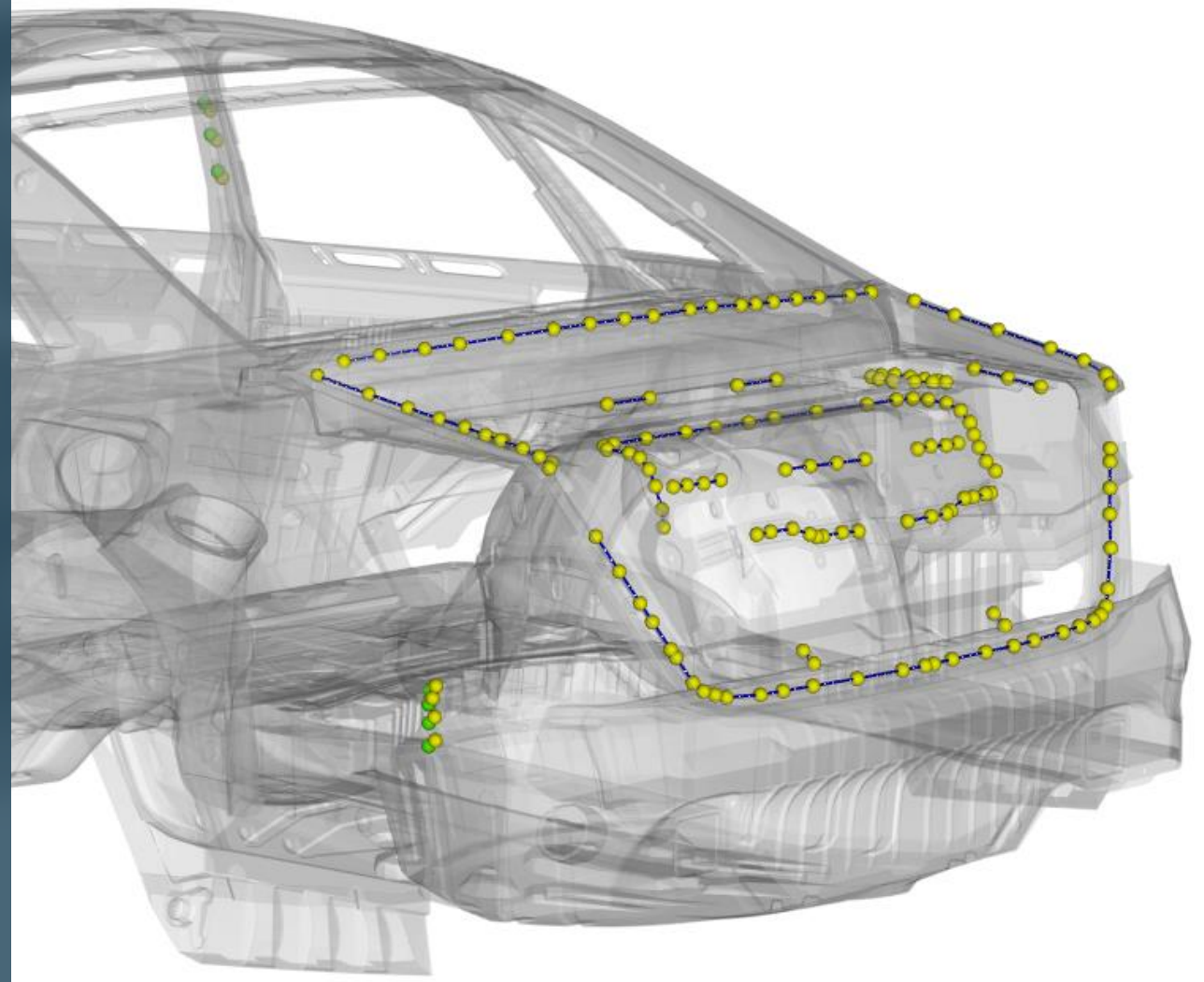
ROBOLIVE

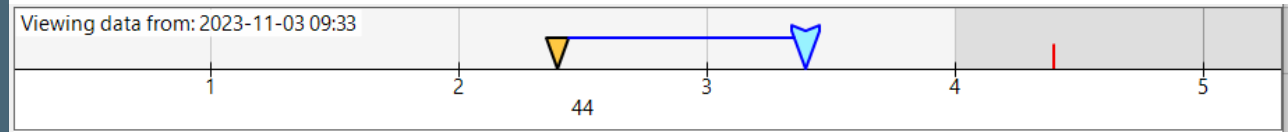
SEE CHANGES MADE TO YOUR ROBOTS

Compare two line conditions over a certain period easily by selecting two data sets on the timeline.

RoboLive®'s Process Visualization will show which programs have been changed within this period and how they have been changed.

This allows you to trace and understand programming work during commissioning and ongoing production, and catch changes that might have otherwise gone unnoticed.





ROBOLIVE

IDEALLY RUN SIDE BY SIDE.

SAVINGS YOU CAN COUNT ON:

-15%

DOWNTIME DUE TO MATERIAL JOINING ISSUES

Comprehensive analysis takes place offline, without stopping production.

-75%

PROGRAMMING-RELATED REWORK AND SCRAP

Deviations and changes are detected, enabling real predictive maintenance.

-60%

PERSONNEL EFFORT FOR HANDLING PROCESS DATA

Knowing the plant's status. employees can be deployed in a targeted manner.

Manufacturers using RoboLive® can expect to see an annual increase of

+3% OEE

ROI EXAMPLE MANUFACTURING

Producing
150,000 vehicles per year
One model
For 3 years
With 300 joining robots

Using this RoboLive® elements:

PROCESS VISUALIZATION

PATH CALIBRATION

VEHICLE-0 DETERMINATION

SOFTWARE OVERVIEW

ROBOT DOCUMENTATION

ROBOLIVE

APPLICATION

1. Control of subcontracted commissioning
2. Handover
3. Production monitoring

USE CASES

- Trace and guidance of programming work
- Visual validation of process points
- Instant weak point identification
- Quality loop reduction
- Bottleneck reports

SAVINGS

- 504 T€/a due to less downtime
- 334 T€/a due to less personnel effort
- 200 T€/a due to less scrap

➢ ~1 M€/a

AMORTIZATION WITHIN 3 MONTHS
TOTAL ROI: 1818 %

MINIMAL EFFORT FOR MAXIMUM SAVINGS.

DATA GATHERING

From Robot to Server

- Automatic data exchange
- As frequently as you'd like
- Via FTP, SMB, or any protocol
- On all robot types, e.g. FANUC, KUKA, Yaskawa, ABB

DATA PROCESSING

Virtual Machine on Server

- One-time server setup
- One-time product configuration
- Lifetime licenses
- Easy handling of data updates

DATA DISTRIBUTING

From Server to Client

- Via SMB , VPN possible
- Limitless licenses for clients
  - Windows 64bit
  - Render 3D graphics

IT JUST WORKS. FOREVER.

1ST: DATA EXCHANGE

For preparation we need this data:

- CAD models of product
- Nominal and robot data
- Actual robot backups

We can work with whatever format you provide us with.

2ND: PREPARATION

1. We take a look at your data
2. We customize your RoboLive®
3. We test and verify our insights

3RD: CONFIGURATION

Initial setup of our server requires:

- IP address in your network
- Virtual Machine on your server

Then we integrate your products.

ANY QUESTIONS?

We're ready to answer any question you have about RoboLive®, including information on your demo installation. Visit our website today, or reach out directly.

robolive.info
office@robolive.info

DRESSLER AUTOMATION CORP.
102 Jordan Drive
Chattanooga TN, United States of America
+1 423 509 0268

DRESSLER AUTOMATION GMBH
Braunschweiger Straße 20
38170 Schöppenstedt, Germany
+49 5332 93060