DXQ3D.onsite

Work efficiently with Dürr robot systems

With the **DXQ**3D.onsite software all Dürr painting and sealing robots can be programmed, parameterized and simulated. It offers a full spectrum of options for the diagnosis and optimization of processes and parameters for plant operators and programming experts. Those functions are thereby accessible in both online and offline mode.

EXTENSIVE TOOLBOX

The basic package includes a comprehensive toolbox with all editors and functions for adjusting car bodies or parts, colors, color changes, rinsing parameters and time programs to one another. All path programs can be displayed, mirrored and transferred in a 3D view. The measurement and calibration can be carried out intuitively. Furthermore the system status is displayed as a graphic diagnoses in an easily understandable form.

FURTHER HIGHLIGHTS

Offline programming for displaying and editing path programs

Simulation of one or more robots with virtual controller

Importing 3D models in different CAD formats

ProcessLogAnalyzer for graphical analysis of the process flow

Path generation for EcoPaintJet Pro stations

Visual Analytics – Graphical tool for the visual analysis of data from **DXQ**equipment.analytics

Scope of services

DXQ3D.onsite

BASIC PACKAGE

- Large toolbox for parameterization of application processes
- 3D representation of the parts with the assigned path programs
- Mirroring and transferring path programs

OFFLINE PROGRAMMING

- Complete representation of robots, applicators and cells with parts as 3D graphics
- Extensive toolbox for creation and optimization of the path programs
- Simultaneous accessibility and collision testing of path points, even during programming

SIMULATION

- Simulation of main programs and painting modules with a virtual controller for all station types (Stop&Go, Tracking) and robots
- Simulation of all station kinematics including robot-to-robot communication
- Prediction of the exact program run times and utilization
- Calculation of paint consumption

CAD IMPORT

- Easy data exchange with external CAD systems
- Import of all important CAD formats without external converter
- Integrated export function of previously converted 3D models
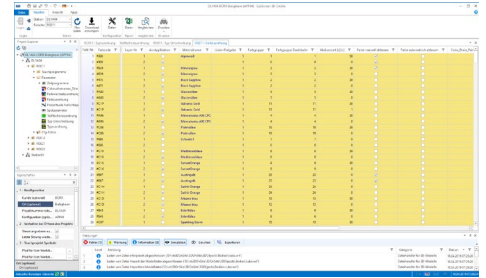
ProcessLogAnalyzer

- Detailed, graphical evaluation and analysis of process flows
- Concise presentation of the correlations between process events and the associated time programs.
- Access to historical data in case of unexpected process incidents
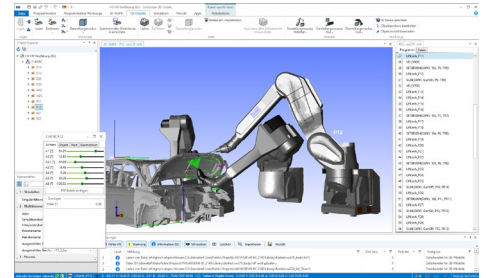
PATH GENERATION EcoPaintJet Pro

- Automatic path generation based on CAD models
- Consideration of surface geometry (concave and convex surfaces)
- Recalculation of all path points in case of changed requirements
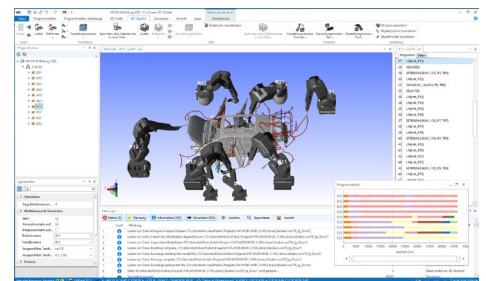
VISUAL ANALYTICS

- Graphical analysis of data from **DXQ**equipment.analytics
- Various filter options for data selection and period selection
- Visual comparison of different time periods and robots
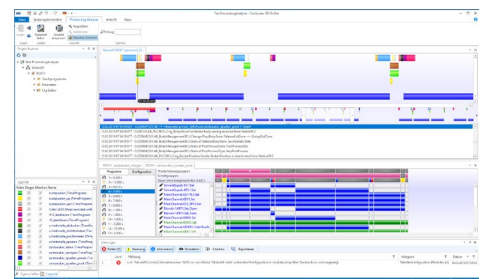- 3D representation of the robots' axis positions

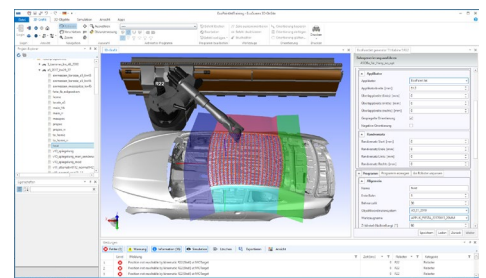Basic package – Parameterization Color assignment

Offline programming

Simulation

ProcessLogAnalyzer

Path generation EcoPaintJet Pro