

PROCESS ANALYSIS AND OPTIMIZATION



aktuelle Bewertung iO/niO Fehlerlogik

Zellenübersicht iO/niO

80R1	80R2	90R	100R2	110R1
960	1180	890	980	1420
1920	2180	1930	920	1490
1780	1090	1810	1000	1530
1770	2170	1760	930	1380
1900	1200	1790	830	1430
940	1080	1850	850	1480
1050	1120	1925	860	1370
1100	1130	900	840	1510
990	1240	1820	870	1570
1170	1110	1870	950	1400

lokale Aktualisierung:

localhost_root_pqs_br221 Sonnabend, 09.06.2007 15:15

Component

A photo of the component for or a better orientation.

Detailed information for every single joint position

Display of welding gun or welding station with the respectively welded joint position of the component.
 For each joint position, the data is separately collected and evaluated.
 The analysis overview shows all individual data such as current curves, voltage characteristics, force or distance and resistance curves.

Plant graphics

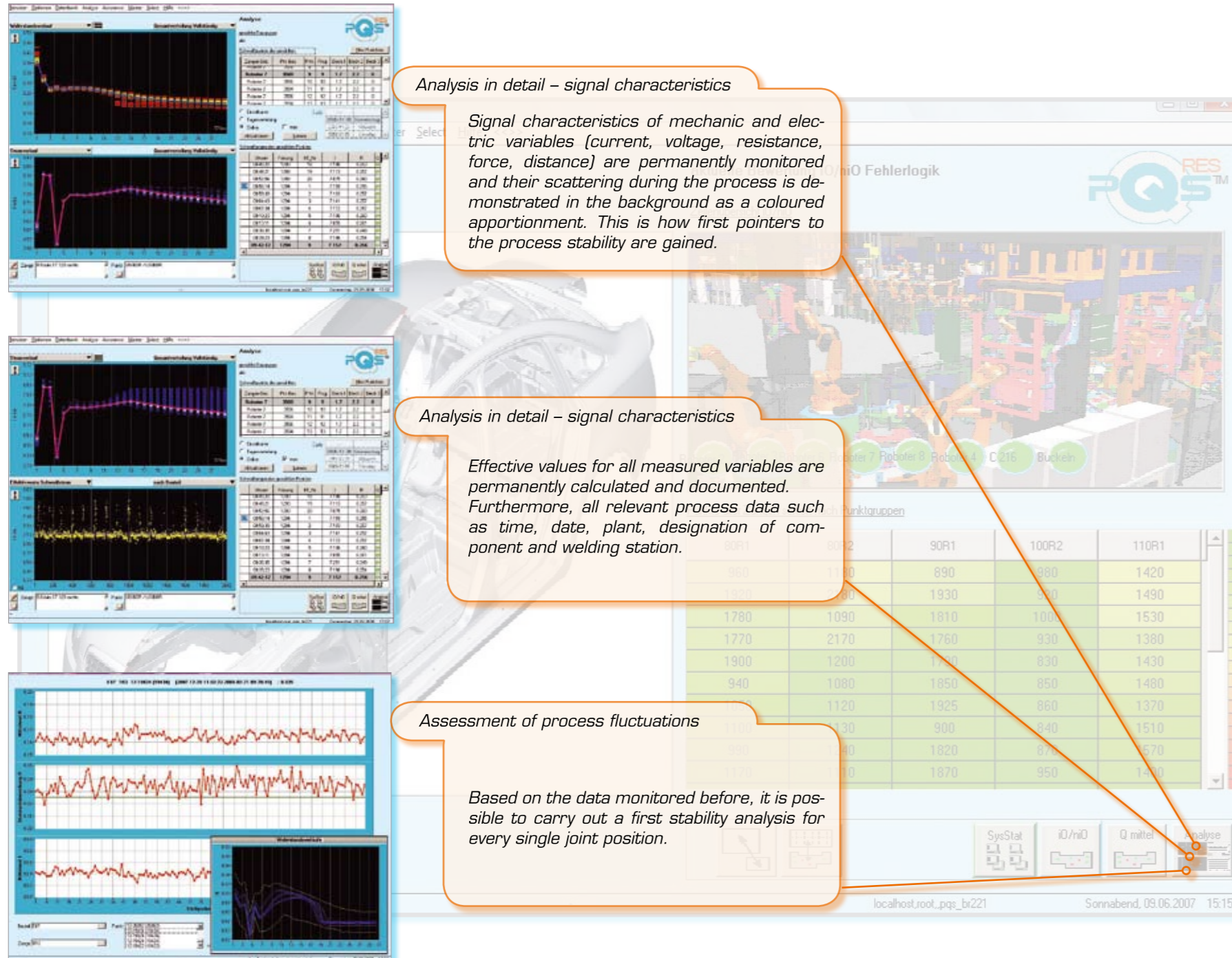
A photo of the welding cell for a better orientation.

Cell overview with group assigning

All important information of up to 16 robots or welding stations is demonstrated online at the same time.

Step 2

PROCESS ANALYSIS



2. Inline Process Analysis and Optimization

No constant quality without process mastering. PQS supports the user actively

- in the assessment of the current process,
- in the ascertainment of correct welding parameters,
- in a fast and efficient optimization.



Step 2

PROCESS OPTIMIZATION

The screenshot displays the PQS RES software interface. At the top left, there is a table with columns for 'Position 1' through 'Position 6' and 'L2R'. Below this, there are three vertically stacked line graphs showing signal characteristics over time. In the center, a 3D model of a robotic arm is visible. At the bottom, there is a data table with columns for '90R1', '90R2', '90R1', '100R2', and '110R1'. The interface includes various control buttons and a status bar at the bottom showing 'localhost:port_42421' and 'Sonabend, 09.06.2007 15:15'.

Plant and stability analysis at the push of a button
 Based on the data and signal characteristics monitored before, PQS automatically creates a complete stability analysis of all joint positions for you. This makes detection of weak points of the process fast and simple and a targeted optimization can be implemented.

Plant and stability analysis in detail
 For every single joint position and welding station a detailed stability analysis can be carried out. Dependencies and coherences can be recognized.

Plant and stability analysis of joint position
 The push of a button makes available all process data for the joint position that needs to be analysed. This facilitates e.g. the optimization of the parameterisation or the setting of controllers.

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