

Step 4

INLINE MONITORING

The screenshot displays the PQS RES software interface. On the left, there are three stacked windows showing process data analysis with line graphs and data tables. The main window features a 3D CAD model of a robotic assembly line with various components highlighted in different colors. Below the model is a data table with columns for different robot stations and their respective values.

	90R1	100R2	110R1
890	890	880	1420
1930	1930	820	1490
1810	1000	1530	
1760	930	1380	
1900	1200	1790	830
940	1080	1850	850
1050	1120	1920	860
1130	900	840	1510
1240	1820	870	1570
1870	950	1400	

Analysis of process data and test data

Now it is possible to compare the quality features achieved with the actual process data and to start programming the process monitoring.

Programming of process monitoring = activation of quality assurance

The intelligent Q-SAVE technology provides for an automatic clustering of the process data within the tested process area. At this stage, the comparison between the process and quality data by the person responsible or the process is important. The setting found this way is the basis for the INLINE process and quality assurance.

Inline monitoring activated

At the push of the button, the monitoring setting individually found for every single joint position is activated and the process is permanently monitored for every joint position with regard to variances. The user can individually adjust the Q-stop strategy according to his requirements. The Q-stop of the plant is then transmitted to the robot, SPC or machine and the component concerned can be discharged.

4. Inline Monitoring

The standard cost-intensive sampling inspection as a verification is now planned to be replaced by an automated, verifiable solution. High-value monitoring solution with a maximum error recognition.