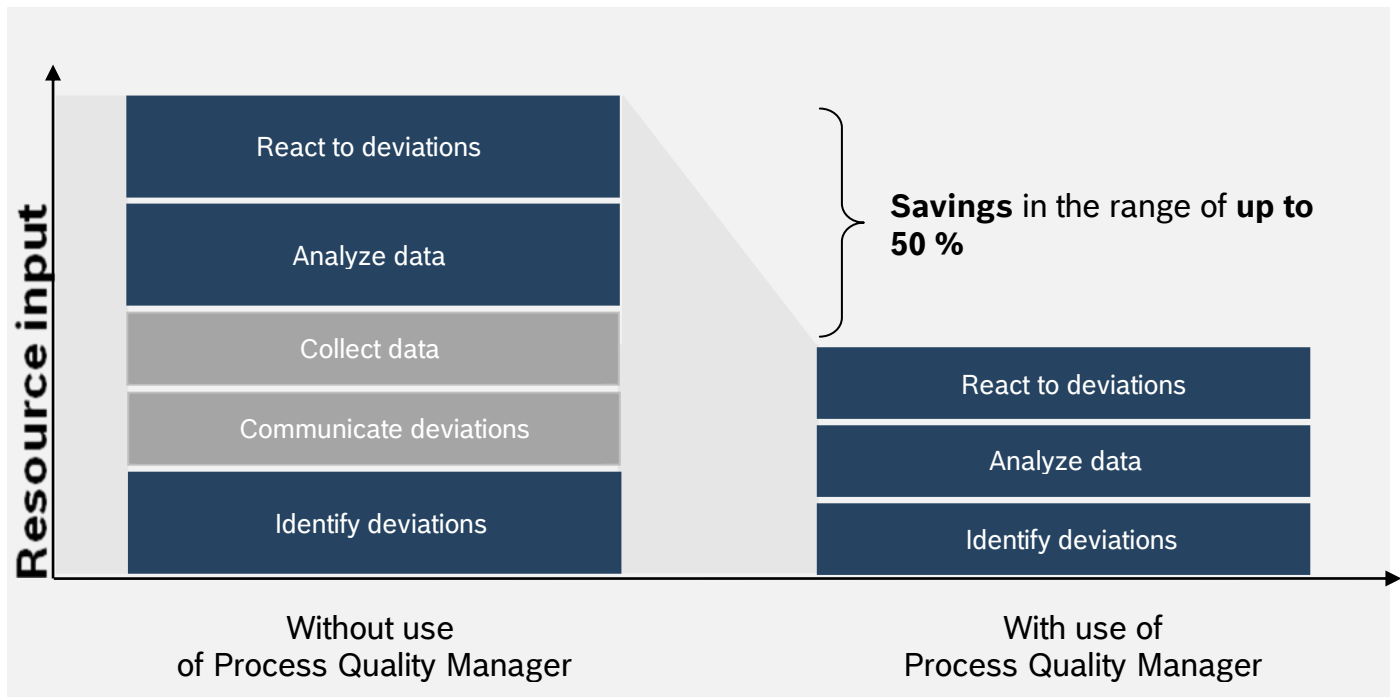




Early warning facilitates a quick response in the event of any process errors. This results in increased efficiency owing to reduced error and rework costs, and therefore a boost in output.

Effectiveness of the Process Quality Manager (PQM)



Process optimization and realization of savings

- Identification of deviations from the target process by using the PQM
- Data analysis immediately after the identification of the deviations
- The steps “Communicate deviations” and “Collect data” can be skipped
- Notification for expert teams when defined thresholds are reached or exceeded

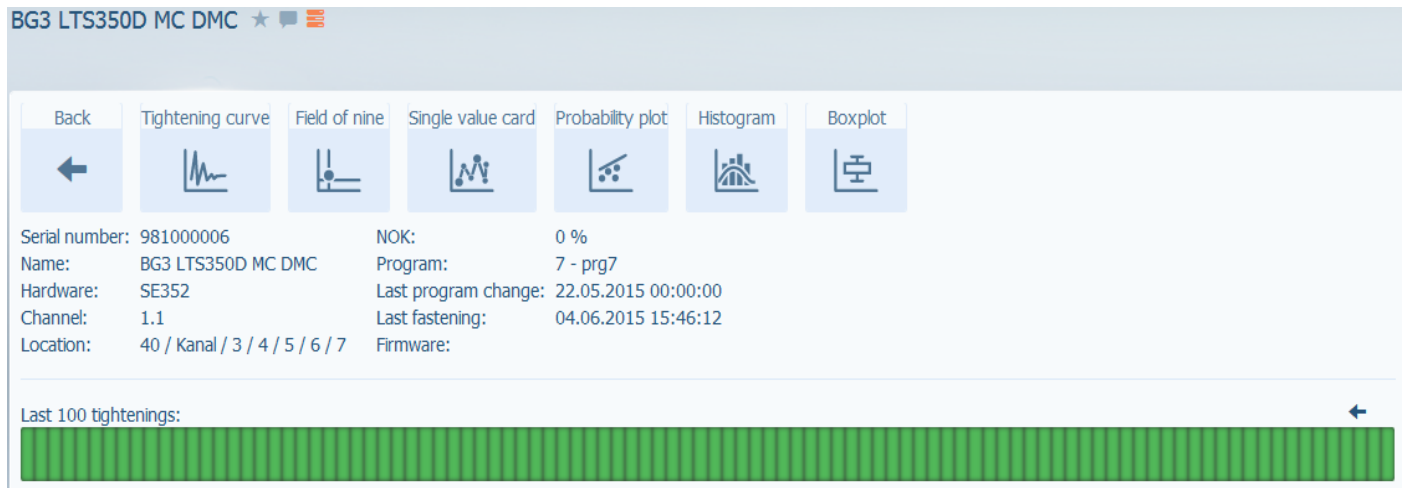
Structure of the Process Data Cockpit



Optimal overview and fast navigation

- Visualization through Process Data Cockpit and easy access with standard web browser
- A plant overview enables the navigation through plant, areas, lines, stations, tightening applications, channels
- A status overview for the entire plants uses color changes (green / red) to indicate the current status of all connected tightening systems
- Management of users, roles and rights: Definition of access rights in accordance with the field of responsibility

Analysis of tightening processes



Identification of trends and tendencies with statistical analysis

- Aggregation and preparation of torque and angle process data as basis for the analysis
- A variety of views are available to experts for analysis of the tightening processes
- Visualization through tightening curve, field of nine, single value card, probability plot, histogram and boxplot

Documentation and Reporting



Broad range of reporting and documentation possibilities

- Storing of the component ID for every completed tightening process in the database
- Based on this data base the user can create, save, and send user-defined reports using a wide variety of search fields

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