

Quality Management System (QMS)

Quality Management System provides complete coverage for every department within a manufacturer.

Plex Online's Quality Management System (QMS) includes more than 40 interconnected functions across engineering, quality and manufacturing to imbed quality into every part of manufacturers' operations. Manufacturers benefit from increased process repeatability, reduced variation, increased production throughput and reduced defects.

Master Part Lists

The part list includes all part data – part descriptions, types, and revisions – and an easy-to-use mechanism to upload small digital photos of each part. Built-in links to other functions enable manufacturers to efficiently track all part data when viewing key part dates, customer part numbers, APQP checklists, inventories, shipment histories, program histories and other functions.



Complete Process Routings

Process routings define all steps required to manufacture or process all given parts including operation number, operation name, approved workcenters and suppliers, crew size, weight, container type and other key routing data.

Support for Infinite Levels of Bills of Materials

Plex Online supports infinite levels of Bills of Materials (BOM). It provides indented, exploded, and drilldown BOMs and many options to visualize and edit BOMs. The system handles BOMs with any number of components.



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Comprehensive CAD Reduces Data Entry

Plex Online numbers and names each dimension on part drawings, then synchronizes dimensions and their tolerances to part specification lists which in turn drive control plans, checksheets, and data collection. This saves manufacturers from having to type in dimensional data and ensures complete coverage across Engineering, Quality and Manufacturing. The system is used with AutoCAD 2004 but will also work with most other CAD systems.

Part Specifications

Manufacturers establish and maintain detailed lists of dimensions and characteristics on specific parts, including target values and tolerances.

Process Flow Charts

Plex Online enables manufacturers to create industry-standard, presentation-quality process flow diagrams driven from the parts' process routings.

FMEA Creation, Editing and Viewing

Manufacturers create, edit and view QS/ISO-9000-required Failure Mode & Effects Analyses (FMEAs) on screen. The system accommodates common and part-specific FMEAs.

Flexible Control Plans

Manufacturers create, edit and view QS/ISO-9000-required control plans and detailed inspection instructions on screen – including sample frequencies, gages, types of control

charts, and other quality data. Plex Online accommodates common and detailed control plans, and automatically links control plans with manufacturers' part specification systems.

Dynamic Control Plans

Plex Online enables manufacturers to comply with the AIAG/Ford Motors' industry quality standard that requires combined specification-level control plans with process FMEA methodology, Gage R&Rs and Cp/Cpks.

Checksheet and Process Instruction Authoring

Manufacturers can author process instructions and checksheets that are fully integrated with, and driven from, control plans. Users can enter inspection data directly into the on-screen checksheet, validate it against the specification limits, and store that data in the Plex Online database.

Statistical Process Controls (SPCs)

Plex Online's Statistical Process Control (SPC) function collects inspection data and conducts in-process SPCs. It handles capability studies, dock audits, part layouts, final inspection sheets, PPAP inspections, and special user-defined checks. It performs all statistical calculations and prints a variety of reports, such as histograms, averages and ranges, run charts and more. The SPC function is automatically linked with part specification, control plan and gage control functions.

Other Quality Functions for Complete Coverage

Plex Online's complete QMS also includes the following tools to help manufacturers analyze and solve quality issues, meet customer requirements, and comply with regulations and audits:

- Problem control – also known as problem reporting and resolution, corrective action, or customer concern log
- Cost recovery
- Issue management
- Five whys
- Document control system
- Specification/document management
- TS-16949, ISO, and AS9100 compliance
- Visio integration
- Internal and supplier auditing
- Gage control



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