SQS3

Your Path to Error-Free Assembly & Quality

Effortless Efficiency & Unmatched Quality

The Scalable Quality Solution 3 (SQS3) is designed to transform your product assembly. Whether starting with a single station or managing a complex line with multiple variants, SQS3 eliminates errors and boosts efficiency. By linking stations through a centralized remote configuration, it ensures consistent quality, reliability, and transparency across production.

Error proofing is essential in today's manufacturing. Preventing mistakes improves productivity, reduces rework costs, and ensures products meet quality standards, enhancing customer satisfaction and brand reputation.

With SQS3, advanced error-proofing techniques integrate seamlessly, ensuring compliance with regulations and paving the way for flawless assembly.

Why Choose SQS3?

Minimized error rates ensure smoother operations, reducing unexpected line stops, and keeps your line moving.

- **Improved Quality and Efficiency:** Ensures consistent product quality while minimizing costs and errors and increasing efficiency.

- **Visual Operator Guidance:** Our interactive step-by-step visuals ensure operators perform tasks correctly from the start.

- **Correct Tightening:** Ensures the right tools and programs are used for each fastener, meeting precise specifications and avoiding future problems.

- **Traceable Rework:** Track and repair defects at designated stations, preventing costly recalls.

- **Quick Training:** New operators quickly learn the process, reducing both training time and operational downtime.

- **Traceability for Compliance:** Full traceability guarantees adherence to industry standards and regulations for peace of mind.

Complete Traceability & Data-Driven Excellence

Manage SQS3 functions for all workstations across the shop floor from a single, user-friendly interface, whether you're on-site or working remotely. This centralized approach ensures that every station operates under the same high standards of quality and efficiency.

Seamlessly sync build and result data with your MES system for full traceability and compliance, providing complete oversight and control of your production processes.

The integration with ToolsNet8 ensures every component and assembly step is documented, making it easy to trace issues back to their source. Protect your brand and ensure customer satisfaction with reliable recall protection and detailed production records.

Identify trends, address potential issues before they become problems, and continuously improve your manufacturing processes with data-backed insights using ToolsNet8.

Cost Saving

Implementing a zero-defect strategy reduces rework, leading to significant cost savings and increased productivity. By eliminating defects at the source, resources are used more efficiently, minimizing the financial impact of scrap. SQS3 helps you achieve higher quality standards without added cost.

Enhanced Productivity

Streamlined processes and fewer errors lead to significant productivity gains, helping you meet production targets effortlessly. SQS3 optimizes every aspect of your assembly line, ensuring each product meets exact specifications, reducing downtime, and boosting output.

Elevate Your Assembly Process

SQS3 implements error-proofing functionalities tailored to your needs. From pick-to-light and part verification to operator guidance, it drives productivity, efficiency, and quality across your assembly line.

Visual Operator Guidance

Our interactive step-by-step visualization system guarantees that operators complete every assembly task correctly on the first attempt, every single time. This guidance minimizes errors and maximizes efficiency.

Tool Location Verification

Monitor and track tools to ensure sequence and specification adherence, enhancing assembly accuracy. By combining SQS3 error-proofing techniques with Atlas Copco's tool location verification solutions (ILG, ILT, or ILS), you ensure every bolt is tightened correctly, creating a controlled assembly environment.
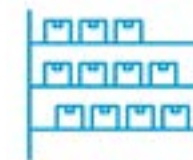
Advanced Tool Control

- **Tool Interlock:** Control and verify the use of DC tools and wrenches via the controller, with automatic program or job selection.
- **Support for Mult-Spindle and PF6 FlexSystem:** Flexible support for bot fixed and hand-held tools.
- **Digital I/O Capability:** Simplifies the connectivity of external I/O devices, eliminating the need for a PLC.

Integrated Data Exchange API

Data Analysis: Use ToolsNet8 for comprehensive data analysis and process optimization.

Enhanced Assembly Line Features

Pick-to-Light/Pick-by-Light & Part Verification: Visual cues guide operators in picking the correct parts from bins, enhancing accuracy and speed.

Seamless Integration with Smart AMS

Easily enhance process control by integrating SQS3 at critical stations with high defect rates. Together with Smart AMS, these solutions provide optimal error-proofing coverage, boosting operational efficiency.

Ready to Transform Your Assembly Line?

Discover how Scalable Quality Solution 3 can transform your manufacturing process.

Contact us to learn how SQS3 improves quality, reduces downtime, ensures correct tightening, enhances rework efficiency, and provides traceability for compliance—boosting overall efficiency.