

Empowering SMEs through Digital Manufacturing Solutions



CHALLENGE

SMEs need to stay competitive, but the digital transformation of their shop floor can seem complex and costly

Smart Factory Assembly from Bossard is here to make your SME's operations ready for the digital age. Benefit from streamlined assembly processes, exceptionally accurate process controls and the highest quality standards. Your employees receive digitalized work instructions and can effortlessly interact with tools, leading to seamless data traceability and full compliance with industry regulations – ideal when starting your business or looking to make the leap to major player.

Partner with Bossard to make your SME's assembly process smart and streamlined:



Replace manual and analog tools with automated and smart digital solutions.



Say goodbye to paper and rely on digital instructions to minimize human error, duplicated work and miscommunication.



Make your employee onboarding procedure agile based on best practices and expert guidance.



Turn assembly line complexity and variation into a manageable procedure for all SME employees.



Eliminate manual checklists from the workplace in favor of automated quality control processes.



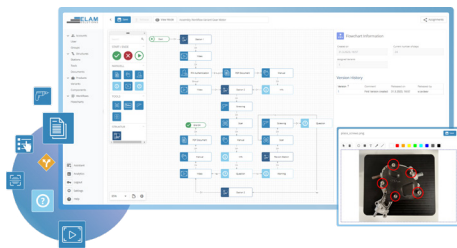
Provide full transparency and traceability of your assembly operations at all times to remain compliant with industry regulations

OPPORTUNITIES

Why Smart Factory Assembly is the top choice for SMEs

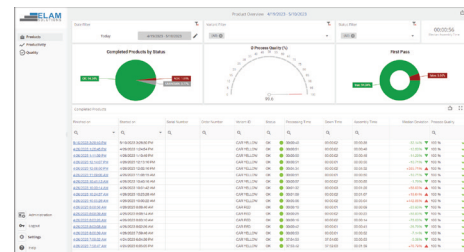
Smart Work instructions

Create interactive workflows that incorporate instructions, checklists and more for a comprehensive work overview.



Data-Driven insights

Collect, analyze and leverage data for better decision-making that benefits your SME.



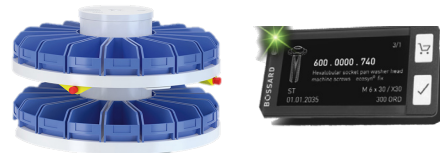
Connected equipment

By connecting all digital tools in the workplace, your SME can enhance operational efficiency, reduce costs and streamline processes with ease.



Enhance efficiency

Pick-to-light is an order fulfilment technology that improves picking accuracy and automatically orders new stock when needed.



A clear competitive edge

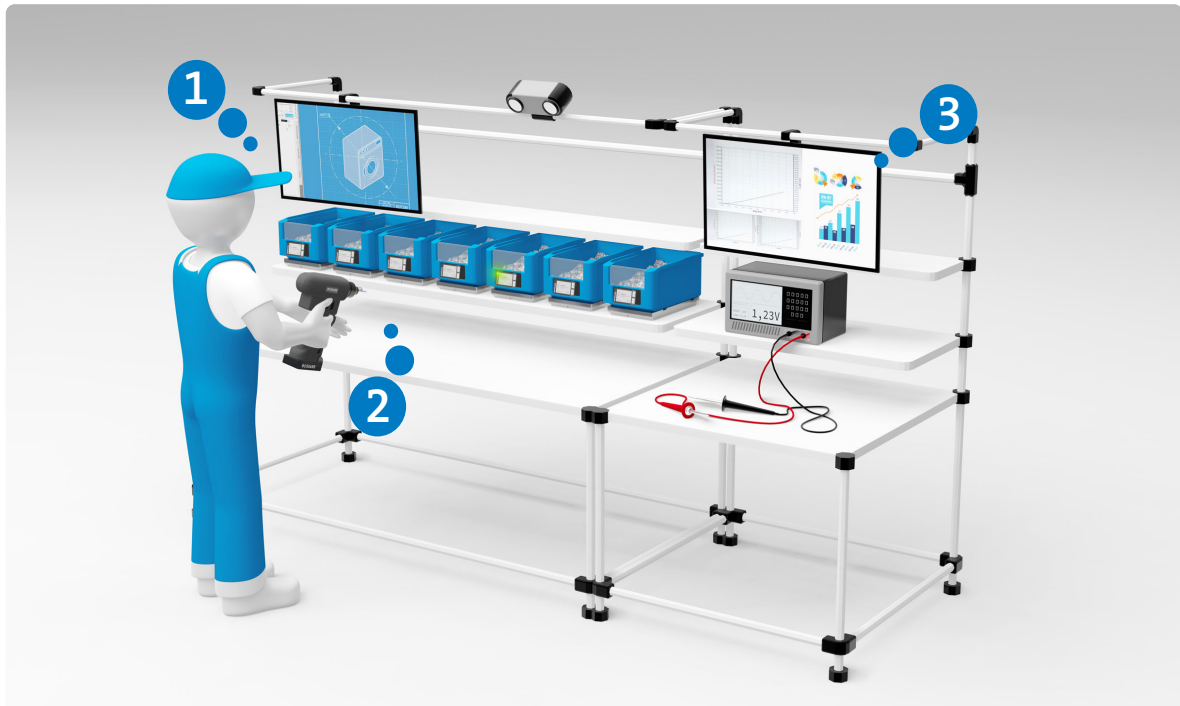
Set content and product restrictions for specific employees. This upgrades workflows, facilitates employee onboarding and plays to the strengths of your professionals – essential for an SME seeking to expand its operations.



“What the SME landscape needs is intelligent solutions that streamline work processes and offer optimal process control in the field of manual assembly. Quality, flexibility and transparency, all in pursuit of fully-fledged automation – this is the goal.”

SMART FACTORY ASSEMBLY - THREE COMPONENTS FOR SUCCESS

Embrace the future of manufacturing with a solution designed for SMEs



1 Digital work instructions based on a smart structure

Use Smart Factory Assembly to simulate and test workflows and find the right path for your SME. This helps you to minimize assembly errors while increasing overall productivity thanks to shorter employee onboarding times and fewer work steps for your workforce. This solution makes it simple to incorporate employee feedback and refine workflows accordingly.

2 Fully connected smart tools and devices in the SME environment

Smart Factory Assembly is designed to help you connect and integrate all assembly tools – smart screwdrivers, pick-to-light, scanners, measuring equipment – within your SME's industry environment. This paves the way for seamless interaction with an ELAM solution and brings you much closer to a fully digitalized factory.

3 Complete traceability of quality data and continuous process improvements

Channel real-time data into your SME's operations to create full product quality traceability and transparency during assembly. This helps you to enhance your processes while staying flexible and agile.



“For SMEs that have not yet embraced digitalization, whether in part or in full, now is the time to take their first steps into digital industry with Smart Process Automation. The benefits are myriad: a competitive edge, enhanced efficiency, and stronger business growth. The world is set to grow ever more interconnected, making it essential for SMEs to develop a clear digital strategy and employ the automated resources available to them.”

SME USE CASE

Establishing reliable processes to minimize errors and improve the bottom line

One Munich-based client, an SME which specializes in highly precise products for semiconductor testing, turned to Bossard in 2022 to find a solution to human errors in the workplace. The answer was a single interconnected workstation that allowed for automated component assembly while ensuring excellent product quality. Building on the success of this solution, the client has since scaled up to four workstations.

The challenge

The client's end consumers employ the product for testing purposes, particularly in the Asian market. In the event of a defective product delivery, a great deal of time and effort is required by the SME to recalibrate or replace it. This situation is exacerbated by the fact that the end consumer is not equipped to perform the recalibration.

1. Financial impact and production quality: users would not pay for defective products, resulting in financial losses and compromised production quality.
2. Unverifiable feedback: it was frequently difficult to verify negative feedback, leading to a culture of acceptance.
3. Complexity of assembly: the product's complexity called for numerous specialists on staff.
4. Rigorous quality checks: the quality representative oversaw in-depth, time-consuming quality checks.

The solution

A guided system with streamlined instructions enables both novices and experts to assemble the SME's product without any compromises on quality.

They can rely on a suite of integrated tools and benefit from full photographic documentation of the steps in the assembly process. Interim quality checks are also performed, which eliminates the need for additional quality control later on. The entire process is recorded in the system for a seamless, one-piece-continuous-flow production process.

The outcome

In the year following the launch of Smart Factory Assembly at the client's site, they have reduced feedback from end consumers by 80%. The ELAM solution cuts out the manual documentation process altogether in favor of an automated one, enabling the client to demonstrate their commitment to quality while validating the remaining 20% of consumer feedback that does reach the SME. In addition, the solution is sufficiently intuitive that a greater share of the workforce can now oversee the production process, thereby increasing productivity even during busy and holiday periods.

Is your SME ready to benefit from our Smart Factory Assembly expertise?

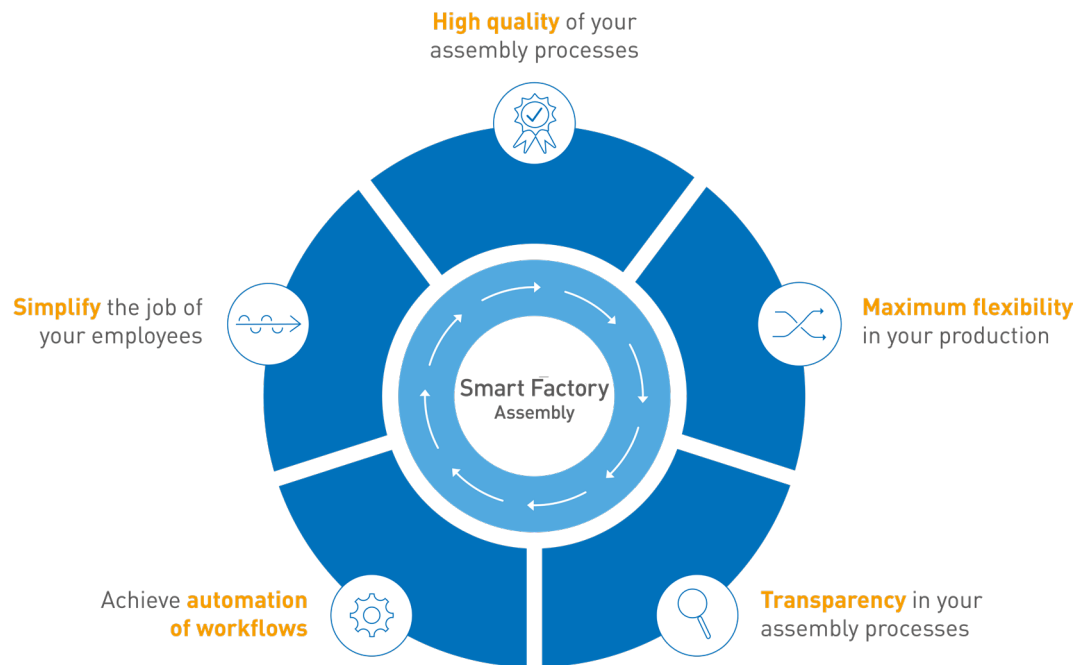
Together, we can find the best solution for your SME.

Get in touch with

smartfactoryassembly@bossard.com today!

A STRONG RETURN ON YOUR INVESTMENT

Summary and benefits



Quality

Effortless quality control and process reliability in all situations.

Flexibility

Strong flexibility even when digitalizing your production layout.

Process automation

Automated data collection and workflow automation, virtually eliminating the risk of human error.

Transparency & Traceability

Full compliance is guaranteed thanks to automated tracking of activities and data recording.

Simplify

A simplified standard operating procedure for quicker onboarding and higher efficiency.