Smart Factory Assembly

Together to a digital and connected assembly
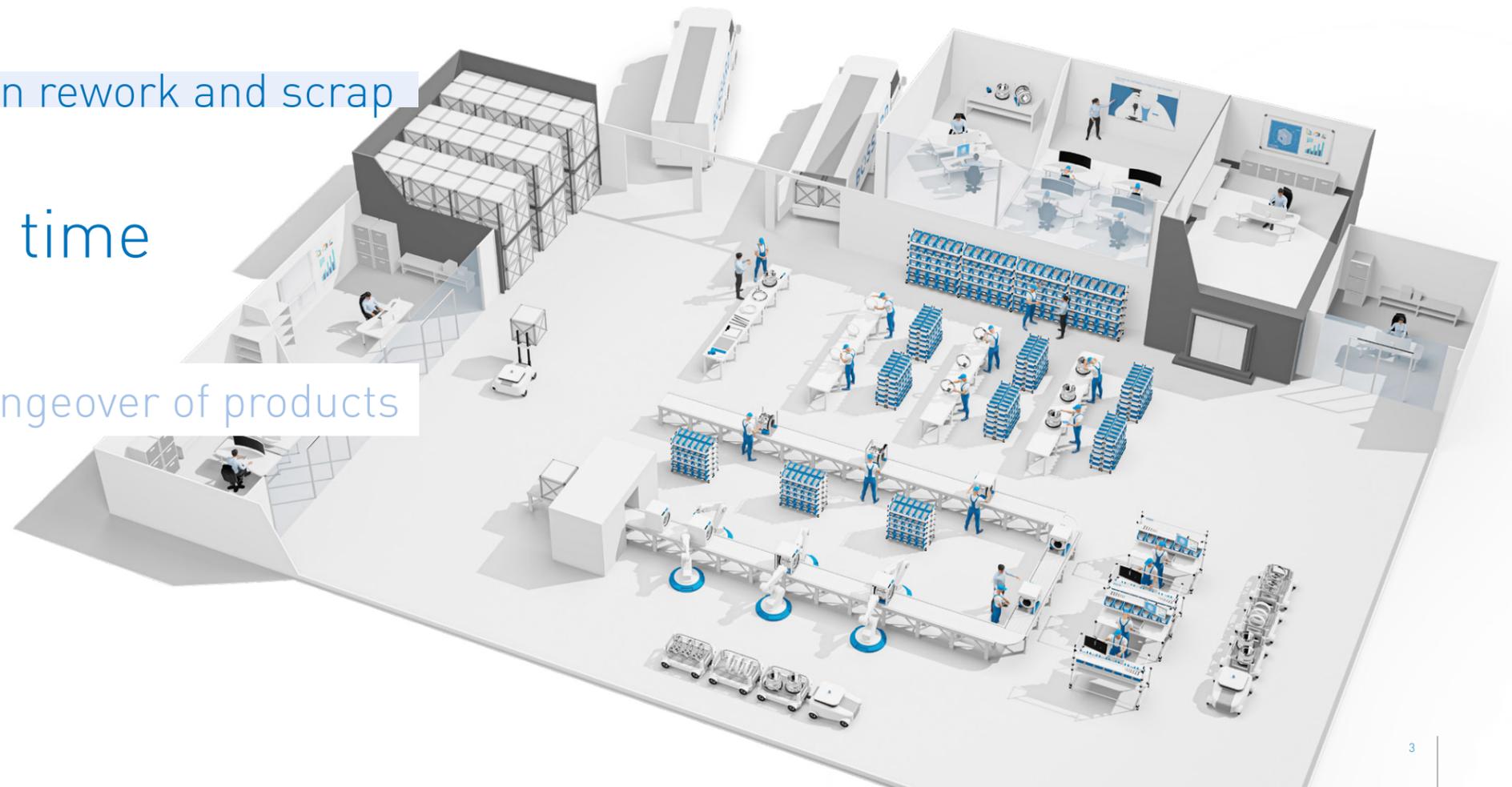
Proven Benefits

100 % traceability & transparency of all assembly operations

50% faster in designing interactive work instructions

80% reduction in rework and scrap

80% less onboarding time

4 times faster changeover of products

Contents

Digitalization in Manufacturing

«Streamline your assembly operations with our cutting-edge Smart Factory Assembly service. Precisely designed to optimize your unique setup, our solution unlocks new possibilities in your production.»

Three components for success

Embrace the future of manufacturing with a smart and scalable solution, designed to help digitize manual work processes.
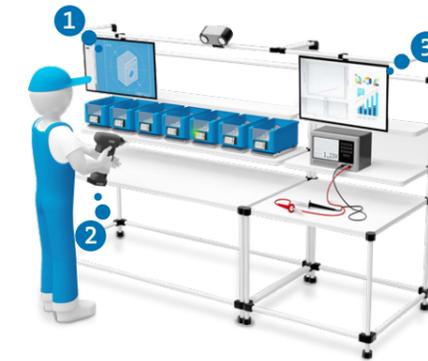
1 Digital work instructions based on a smart structure

Use Smart Factory Assembly to simulate and test workflows and find the right path for your manufacturing environment. 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

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 Solutions 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 operations to create full product quality traceability and transparency during assembly. This helps you to enhance your processes while staying flexible and agile.

The impact on your ShopFloor

Production Management

All production and quality data is automatically documented and stored in a production lifecycle file. This documentation can be quickly and easily accessed at any time, ensuring seamless traceability.

Work Preparation

The central creation and management of digital work instructions enables easy control of all variants and their versioning. This can be conveniently performed from the office, allowing updates and modifications. Additionally, the modular setup facilitates the adoption of complete assemblies or work sequences from existing instructions, streamlining the efficient creation of work instructions.

Shop Floor

The production employee is supported throughout the entire process in order to eliminate as many sources of errors as possible. The work instructions can be specifically adapted to the respective assembly employee with respect to language, level of training and level of detail.

ONE PLATFORM. ENDLESS POSSIBILITIES.

Why connectivity matters

Simplify the assembly process while increasing productivity. Connect a large variety of tools and gauges, such as, vision systems, pick to light, bit selectors, torque/angle tools, test & measurement equipment, printers, scanners, and identification systems.

Our Solution - ELAM Solutions
Interactive Worker Guidance | Smart IoT Platform
Data Analytics Dashboard

+1000 Smart Tools compatible from tightening to riveting tools.
With potential to integrate every open protocol smart tool.

All I/O communication devices are plug-and-play compatible.
Integrate every I/O Smart Tool, Sensor and machines into ELAM Solutions.

Choose from a wide range of pick-to-light devices, from time-managed steps to automatic weight acknowledgement.
This has nearly unlimited applications, ranging from mobile to fixed technologies.

Lots of possibilities, from USB webcams to AI-supported smart cameras.
Use your existing webcams, our mobile app or even your smart phone to take pictures and scan codes. Verify highly complex assembly steps with our Bossard Smart Cameras.

Integrate a wide range of printers, foot pedals, scanners, badge readers and much more into your assembly process.
All of these and many more are available through our Bossard Smart Factory Assembly portfolio.
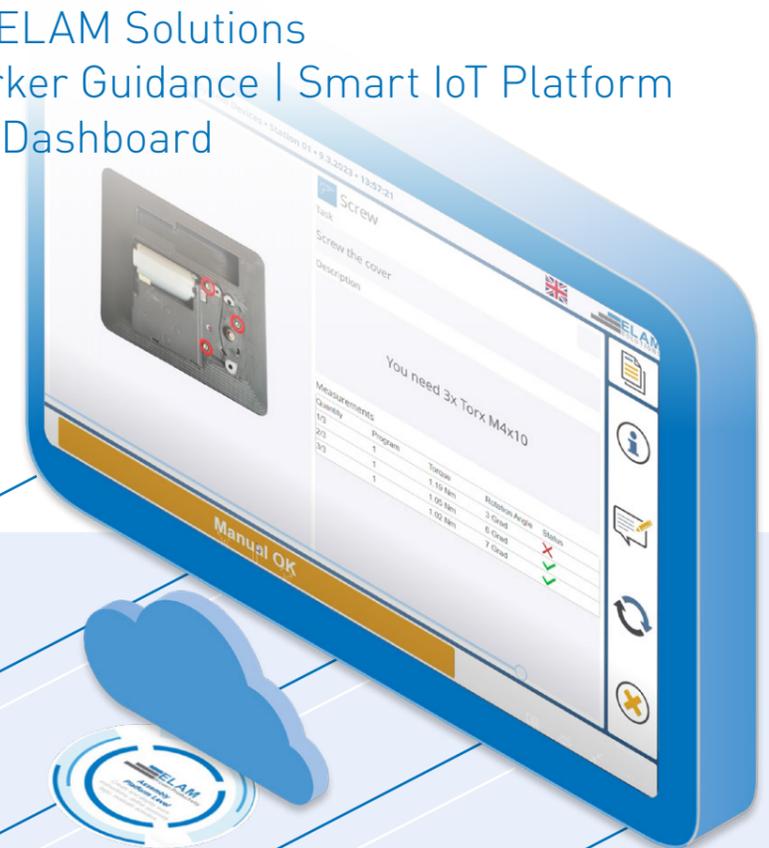
Don't see the IoT tool you're looking for on this page? Have a special request or a preferred brand in mind?
Reach out to our team – we'd love to hear from you and will get back to you shortly.

REAL-TIME PRODUCTION DATA DASHBOARD

Bossard ELAM SOLUTIONS

# Our all-in-one platform that simplifies your assembly process

With Bossard ELAM Solutions, you can evaluate and visualize production data for maximum efficiency – from individual workstations to the entire process. All quality indicators and procedures are securely stored in the database.

ELAM Solutions is more than a digital work instruction tool – it's a smart platform that bridges the physical and digital worlds of production.

By connecting with IoT hardware like smart tools, sensors, scanners, and pick-to-light systems via a dedicated IoT Gateway, ELAM Solutions ensures every assembly step is guided, monitored, and confirmed.

It also integrates seamlessly with ERP and MES systems through standard interfaces, enabling smooth data exchange for orders, traceability, and production reporting.

From real-time tool feedback to unified production data, ELAM Solutions delivers a fully connected and transparent manufacturing process.
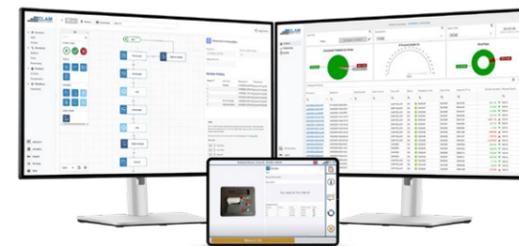
Advantages of our All-in-One Dashboard

– Identify areas for improvement in your operations
– Trace the quality of your products
– Achieve transparency in the assembly process
– Make decisions based on real-time data
– React with flexibility and agility

SOFTWARE   **HARDWARE**

Seamless Integration – Connecting ELAM Solutions with Hardware and Systems

SAP
MES
ERP
ORACLE

Microsoft Dynamics 365

Plug & Play Integration: Connect any ERP or MES system with our standardized API.

SERVICES

Bossard offers three levels of service support for ELAM Solutions to ensure optimal system performance and quick issue resolution:

Bronze: Standard support with issue resolution handled in the regular service queue. Contact via email. No included hourly support.

Silver: Prioritized support with a 16-hour mtta (mean time to acknowledge) time and 60-hour mttr (mean time to repair) time. Customers can contact Bossard via their Key Account Manager. Includes 1 hour of support per month.

Gold: Premium support with immediate hotline access, 4-hour mtta time, and 16-hour mttr time. Includes 4 hours of support per month.

Product availability and specifications may vary by region. Please contact your local subsidiary for more details.

Software

ELAM Solutions is Bossard's smart Software-as-a-Service (SaaS) solution for Smart Factory Assembly. It enables companies to digitalize and optimize their assembly processes, ensuring efficiency, quality, and traceability.
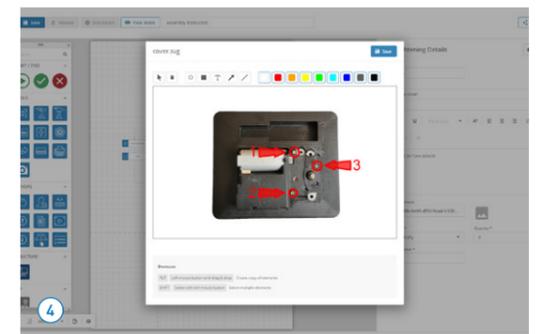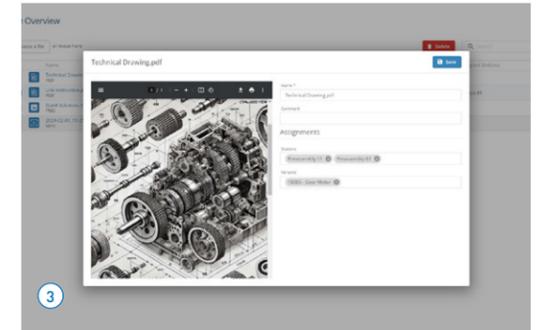
With ELAM Solutions, workflows can be visually designed, intuitively created, and flexibly adapted. Operators receive step-by-step digital work instructions in real time, while intelligent validation features ensure that every assembly step is performed correctly. This reduces errors, improves productivity, and supports continuous process improvement.

BASIC	PRO	ENTERPRISE	ADD-ONS
55 EUR	**120 EUR**	**Please contact us**	**Optional add-ons**
⊘ Digital Work Instructions	⊘ Digital Work Instructions	⊘ Digital Work Instructions	⊘ ERP Connector Enables ELAM Solutions to connect to your ERP through a standard REST API (from 290 EUR per month)
⊘ Static Documents	⊘ Static Documents	⊘ Static Documents	⊘ Quality and Production Dashboard Enables your system to visualise in a dashboard all the generated data from the assembly process (from 45 EUR per month)
	⊘ Standard IoT Portfolio	⊘ Standard IoT Portfolio	⊘ Order Management Create your order within ELAM Solutions. Import orders from 3rd party systems with CSV files (from 25 EUR per month)
		⊘ Custom IoT Devices	
		⊘ Custom Features	
		⊘ Factory wide license contracts	

Product availability and specifications may vary by region. Please contact your local subsidiary for more details.

Features and Add-ons

1) Flowchart Editor
With the no-code Flowchart Editor you can easily create digital assembly instructions for your products. Complex assembly processes are displayed visually and in a transparent way.

2) Digital assembly instructions
Guide your employees through assembly processes step by step. Standardized processes lead to minimizing errors and optimizing efficiency throughout the entire production cycle.

3) Document management
Manage your documents in one place and grant your employees full access to the latest information whenever required.

4) Image Editor
An image is often worth a thousand words. Edit your images in one place and show your employees important information for assembly and production.

Add-Ons

Order management
Centrally manage manufacturing orders to optimize planning, increase efficiency, and minimize errors.

Quality & Production Dashboard
Gain real-time insights from workstation to line level. Ensure traceability, monitor product quality, and identify improvements with centralized data and transparent reporting.

ERP integration
Seamlessly connect your ERP via REST API to import and retrieve data efficiently, streamlining processes and reducing errors.

Hardware

Technical details

High-quality hardware components, fully integrated into ELAM Solutions – with the Smart Work Assistant as the central IoT gateway for all applications.

Smart Work Assistant

The central component of every workstation, used to display work instructions and act as a gateway device to ELAM Solutions and all connected IoT tools.

Fixed Displays

– Standard workstation setup with mounted screens, all sizes available
– Step-by-step guidance for employees during assembly
– Touchscreen interface enables intuitive support and efficient quality data collection
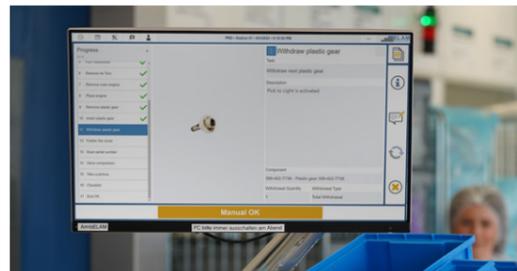
Mobile Devices

– Display work content on a tablet or mobile device
– Display work instructions, simple assemblies or drawings and parts lists
– Flexible use within the production line

Smart Work Assistant

Art. No.	Model	Description
9079062	ELAM Solutions: Smart Work Assistant Client with WiFi, 10x digital I/O's and Ubuntu operating system	WiFi / Bluetooth HDMI / Display Port 2x USB, 3x Ethernet (Internet/Tool/DHCP)
9079064	ELAM Solutions: Smart Work Assistant Mini Client with WiFi and Ubuntu operating system. (not for Pick-to-Light, no digital I/O's)	WiFi / Bluetooth, HDMI / Display Port Connection to Pick-to-Light Connection to manual hand switch 10x digital output 24V@500mA per Pin 10x digital output 6x USB 3x Ethernet (Internet/Tool/DHCP)

Display Peripherals and Accessories

Art.No.	Model	Description
9062830	Tablet Computer	Tablet suggestion Microsoft Surface Pro 9 13" Tablet Intel Core i5, 1.6GhZ 8 GB RAM, 256GB SSD
9046661	Touch Monitor 23"	23" touch panel, for optical display of ELAM Solutions. Multitouch capable. Available in different sizes. Without wallmount
9094303	Touch Monitor 27"	27" touch panel, for optical display of ELAM Solutions. Multitouch capable. Available in different sizes. Without wallmount
9046663	Wall mount	Wall mount for display
9052876	Quick-change device	Enables the quick attachment and replacement of devices on an EDP holder.

Camera Solutions

BOSSARD CAMERA SOLUTIONS

See every step. Prove every result.

Cameras are the fastest path to certainty on manual and semi-automated lines. With ELAM Solutions, start with a webcam, add OK/NOK I/O cams, or use smart cameras for live guidance and traceable proof at every step.

Beyond simple verification, Camera Solutions add a new layer of confidence to your production. They not only capture what happens at the workstation, but also transform visual input into actionable data. Operators receive live feedback during assembly, while supervisors gain transparent documentation that can be stored, shared, and audited at any time.

Cameras also strengthen training and process reliability. By recording each step, deviations are easier to detect, and best practices can be reinforced across teams. When combined with ELAM Solutions, this creates a closed feedback loop: operators are guided and verified in real time, and management benefits from consistent reporting and traceable proof of quality.

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WEBCAM

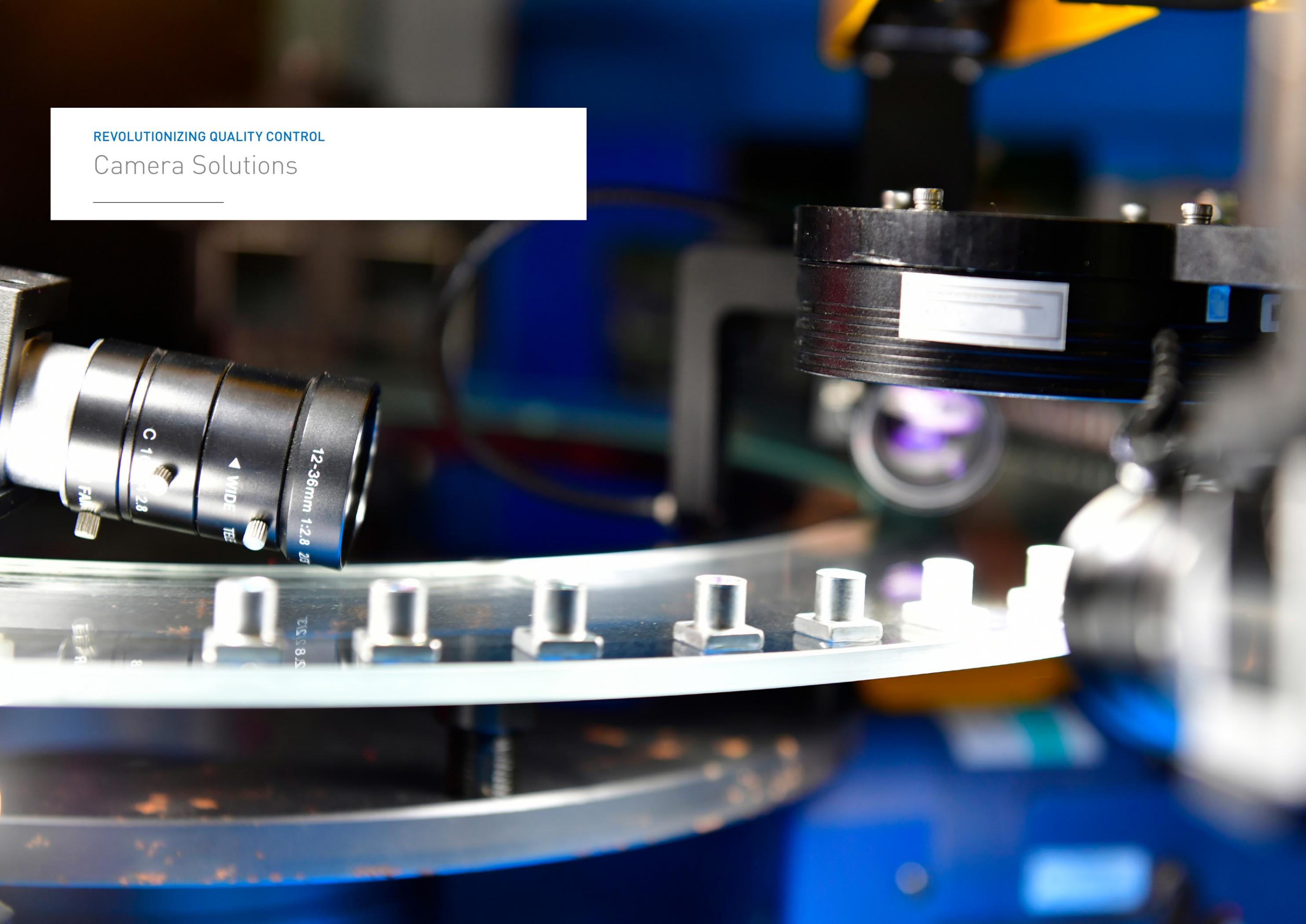**I/O CAMERA**

SMARTCAMERA

The right choice depends on your goal: identify, verify, or certify.

Model	Functionality	Use Case	Advantages
Webcam	Supports USB webcams with resolutions up to 4K. It needs to work on Linux Ubuntu.	Barcode/QR scans; pictures for product-related quality reports and End-Of-Line checks / picture documentation	Use your existing, inexpensive USB webcams to scan barcodes or QR codes, or to take pictures for product-related quality reports.
I/O Camera	Every I/O-capable smart camera	Part presence/orientation; completeness checks;	Use your existing I/O-capable smart cameras to integrate with ELAM Solutions without any programming effort. This allows you to start specific programs on your smart camera and receive OK or NOK signals.
SmartCamera	Bossard Smart Camera powered by Sentinus	Picking; Placing; OK/NOK (Positioning & Difference); Tool usage; Outlier detection; Labelled cable routing; Quality inspection; Barcode/QR scans; Document OCR; Defect Detection	This is the only camera that allows you to live stream from your work instructions while assembling, providing real-time feedback. A picture is saved in the product report after every step, either OK or NOK, to provide more transparency of your assembly quality.

! Camera Solutions add value wherever visual proof is required – from regulated industries to operator training and quality audits. They provide certainty where traditional picking signals reach their limits.

Your Brands. Our Solution.

Whether you work with our product portfolio or prefer to use your favorite brands, ELAM Solutions is flexible. Many leading manufacturers are already integrated - ready to go right away, without any detours.

Curious? Click **[here]** for more details or reach out to us directly.

KEYENCE

SENSOPART

Bossard SmartCamera powered by Sentinus

Integrated with ELAM Solutions, Bossard SmartCameras verify assembly steps, detect defects, and ensure quality. They increase efficiency, cut errors, and are invaluable for quality assurance and production optimization.
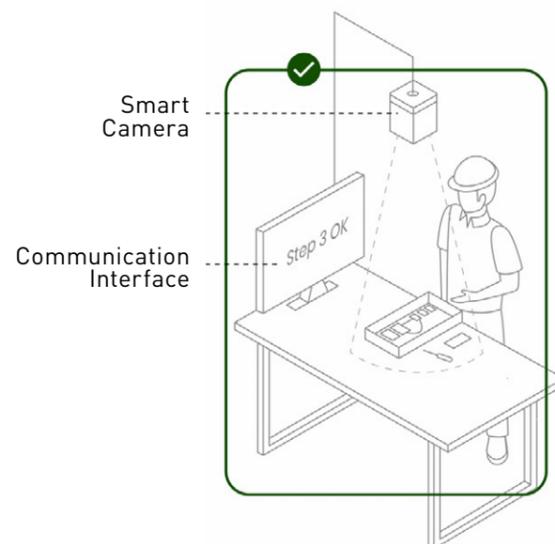
How it works

The Smart Camera uses computer vision to recognize hands, tools, parts, labels, codes, and assembly states in real time. It overlays guidance and checks each step against configurable rules, releasing or stopping the process automatically. All results are logged to ELAM Solutions for full traceability and continuous improvement. Running on-device, it minimizes latency while scaling easily across stations and variants.

Why to choose?

– High-resolution imaging for precise monitoring
– Real-time analysis for instant error detection
– Seamless integration with ELAM Solutions
– Versatile use (e.g., component verification, barcode scanning)
– Enhanced quality control with reduced human error
– Automated documentation for easy traceability
– Customizable configurations for specific needs

Smart Camera

Communication Interface

Step 3 OK

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Technical details

Features:

Picking	Labelled Cable Routing
Placing	Quantity Inspection
OK/NOK (Positioning & Difference)	Barcode / QR Code Reading
Tool Usage	Document OCR
Outlier Detection	Defect Detection

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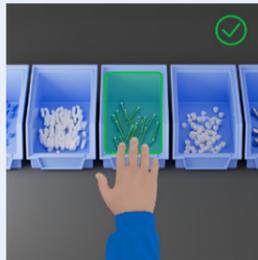Curious? Click **[here]** for more details or reach out to us directly.

KEYENCE

SENSOPART

Use Cases

Picking:
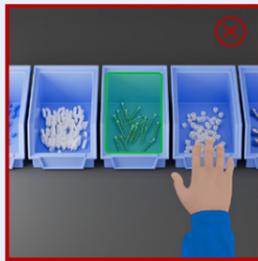

What is detected?
– Whether the hand reaches into the correct bin.
– Whether the part pick is correctly confirmed.
– Multiple picks can also be queried.

How does it work?
– The camera recognizes the hand movement and locates it at the correct bin.
– The process is only released when the hand remains briefly in the correct area.
– The "trigger area" can be configured easily in a web app.

Goal/Benefits
– Avoidance of mispicks and wrong parts.
– Immediate feedback increases operator confidence and trust.
– Less scrap, less rework, lower costs.

Placing:

What is detected?
– Whether the intended component was placed or a step was skipped.

How does it work?
– The camera distinguishes three states: previous, current, and next step.
– The process continues only if the current step is correctly recognized.
– If a step is skipped, the process stops automatically.

Goal/Benefits
– Ensures that no part is forgotten.
– Faster feedback during the process instead of at final inspection.
– Reduction of complaints and rework.
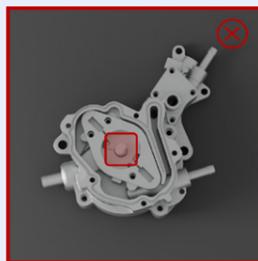
OK/NOK check:
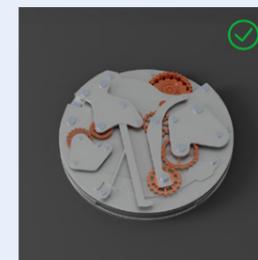
What is detected?
– Whether a part is assembled correctly.
– Whether deviations or errors are present.
– Different known error conditions.

How does it work?
– Vision models classify states automatically as OK or NOK.
– Results appear immediately on the screen or in ELAM.

Goal/Benefits
– Errors are detected immediately and can be corrected at once.
– No defective product proceeds further in the process.
– Complete quality documentation.

Tool usage:
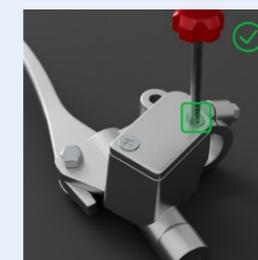
What is detected?
– Whether the correct tool was used.
– Whether the operation actually took place.

How does it work?
– The camera visually identifies the tool.
– Movements and interactions are checked.
– If used incorrectly, the process remains locked.

Goal/Benefits
– Safety in critical processes such as screwing or bonding.
– Guaranteed correct tool usage without additional devices.
– Complete traceability.

Use Cases

Labelled cable routing:
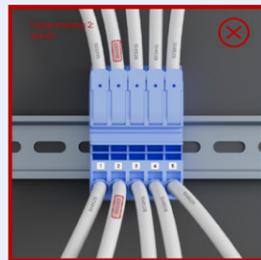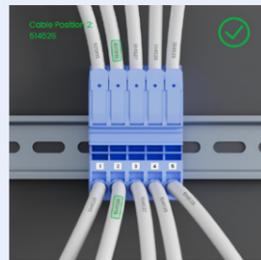
What is detected?
– Whether the cable is inserted into the intended connector.
– The operator is shown the intended connection by recogniz-
  ing the cable label.
– In-process control, not only at the end.

How does it work?
– The camera reads the cable label and visualizes the correct
  position.
– It detects the correct socket position.
– The process only continues when cable and connector
  position match.

Goal/Benefits
– Avoidance of costly wiring errors.
– Documentation of every single wiring step.
– Quality inspection directly in the process.
– Reduced rework.

Quantity inspection:

What is detected?
– Whether the correct number of parts is present.
– Whether components were inserted twice or not at all.

How does it work?
– The system counts parts automatically.
– Comparison with target quantities stored in ELAM.

Goal/Benefits
– Complete deliveries - no missing or duplicate parts.
– Higher customer satisfaction and fewer complaints.
– Reliability in packaging and assembly.

Barcode / QR-Code:

What is detected?
– Barcodes and QR codes on components or packaging are
  automatically detected and digitized.
– Unique identifications for traceability.

How does it work?
– The camera reads codes automatically.
– Comparison with predefined reference codes.

Goal/Benefits
– Full traceability.
– No manual data entry needed - enabling 100% quality
  control.
– Faster and more digital documentation

Document OCR:

What is detected?
– Printed texts on labels, delivery notes or documents.
– Serial numbers, manufacturing and quality data.

How does it work?
– OCR converts text directly into digital data.
– Reliable even on difficult surfaces.
– Comparison with the predefined reference codes.

Goal/Benefits
– No manual entry – fewer errors.
– Efficient and fast documentation.
– Easy archiving of production data.

Use Cases

License Models
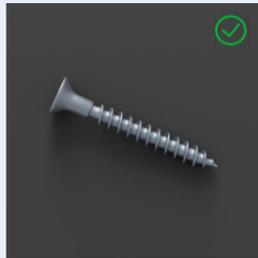
Defect Detection:

What is detected?
– Surface defects such as scratches, cracks, or dents.
– Color deviations or wrong/missing components.

How does it work?
– The camera compares the actual state with standard refer-
  ences.
– Defective parts are detected immediately and the process
  is stopped.

Goal/Benefits
– 100 % real-time quality control.
– Less scrap and fewer complaints.
– No defective products.

CORE	ADVANCED	PRO	HARDWARE
Basic features per SmartCamera:	Features for assembly inspection:	Specific features that are not included in our CORE or ADVANCED license models can be developed according to your process.	Please contact our experts for camera pricing.
Picking	OK / NOK	Please contact our experts for your tailormade solution.	
Placing	Tool Usage		
	Outlier Detection		
	Labelled Cable Routing		
	Quantity Inspection		
	Barcode / QR Code		
	Document OCR		Service: Customer-specific development based on effort.
	Defect Detection		

ELAM Solutions license and service are not included.

Your Brands. Our Solution.

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Curious? Click **[here]** for more details or reach out to us directly.

KEYENCE   **SensoPART**

Bossard Picking Solutions

Pick fast. Pick right.
Smart refill.

Combine SmartLabel for digital Kanban and visibility, Pick-to-Light for guided, zero-defect kitting, Smart-Tower for compact, weight-verified picks. All options integrate with ELAM Solutions for end-to-end trace-ability.

By combining digital labels, LED guidance, weight-verified kitting, and optional vision support, Bossard ensures that every pick is precise, validated, and documented in real time. SmartLabel, Pick-to-Light, SmartTower, and Smart Camera each address different needs, but all integrate seamlessly with ELAM Solutions to provide full process control and traceability.

Through this combination, picking becomes faster, error-proof, and fully connected: operators are guided visually or digitally, confirmations happen automatically, and data flows directly into higher-level systems. The result is a transparent and efficient picking process that scales with your production demands – from a single bin to a fully integrated factory.

SMARTLABEL   **PICK-TO-LIGHT**   **SMARTTOWER**

Three solutions – One seamless flow.

Model	IoT Status in ELAM	Pick Confirmation	Advantages
SmartLabel	No	Time-based ELAM step	A mobile solution. SmartLabel is assigned to a box, which can then be placed anywhere. The same label can also be used for Smart Factory Logistics by Bossard.
Pick-to-Light	No	Button / Touch / Sensor	All Pick-to-Light (PTL) variants use bright LEDs at the location to guide operators to the right bin, quantity and sequence. ELAM validates each pick and advances the workflow.
SmartTower	Yes	Button press or weight	It is very space-efficient due to its multiple layers (up to six layers, each containing up to 18 boxes). Confirmation is either via a button press or a weight measurement.
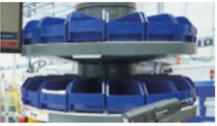
? Prefer vision over lights? In specific stations, a smart camera can confirm picks within a limited field of view and support training or documentation. Best used as a complement to PTL or SmartTower where vision adds value.

SmartLabel. Make every bin smart.

SmartLabel turns any box or shelf into a live informa-
tion point. The e-paper display shows part data and
order status in real time, while replenishment can be
triggered with a single button press.

How it works

SmartLabel Cloud is an intelligent modular label
solution that can be fixed anywhere. All relevant
product information, as well as real-time order
status and delivery date, are visible at a glance on
the display through the newest IIoT communica-
tion. This guarantees a better product information
overview on-site and ensures full control and
reliability. Users can release orders directly at the
point of use at the touch of a button.
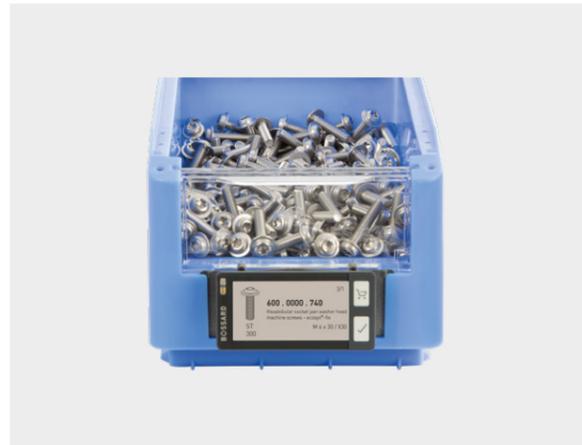
The SmartLabel display is based on the e-paper
technology. It is easy to read under all lighting
conditions through improved mounting position.
A long battery lifetime (up to 5 years) ensures
minimal maintenance and sustainability. Smart-
Label Cloud is a modular all-in-one system that is
a pioneer for further technological enhancements
such as Pick-by-Light, enabled by an integrated
LED.

Why to choose Bossard SmartLabel?

– Always up to date: real-time order status and ETA refresh automatically
– Replenish with one touchdirectly from the shop floor
– Works anywhere: wireless, long-life e-paper, flexible placement
– Lower cost of ownership with minimal maintenance
– End-to-end visibility when integrated with ELAM Solutions and
  Smart Factory Logistics

Features

- ◎ VISUAL PROOF
- 📶 WIRELESS
- 📍 MOBILE
- ADAPTABILITY
- 24 REAL-TIME INFORMATION UPDATE
- ⚙ FULL CYCLE CONTROL
- 💡 LED - PICK TO LIGHT ENABLED
- 📈 ARIMS - ACCESS TO OPERATION DASHBOARD

Highlights

– Native integration for traceability
– Interfaces with ERP/MES/WMS systems
  via ELAM Solutions
– Multi-order workflows supported
  without additional hardware
– Supports scalable configurations
  with up to 100 PTL modules per controller

Automatic-demand recognition Seamless order management

Smart Factory Logistics

Delivery and replenishment Consolidated shipment
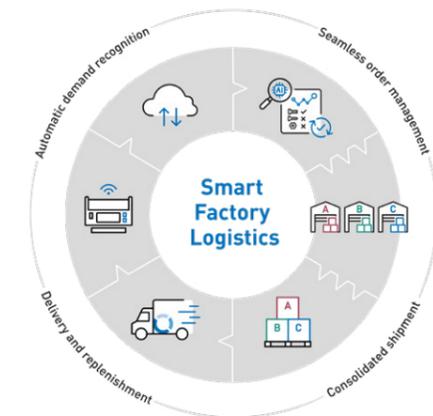
Order process with Bossard SmartLabel Cloud

1. **Demand recognition**
   Operator pushes the order button on the SmartLabel.

2. **Seamless order management**
   Data is sent to Bossard online and processed.

3. **Consolidated shipment**
   Ordered items are consolidated and shipped to the customer.

4. **Delivery and replenishment**
   Items are delivered to the dock or point of use, and replenishment
   is recognized automatically.

For more information on Bossard Smart Factory Logistics, please
refer to our main brochure.

Pick-to-Light –
Lights that lead the way.

The pick to light applications show the employee where to pick the respective components for the work step with the integrated light display. The process can be acknowledged via a button, via touch function on the light or also via an integrated sensor.

How it works

Each storage location has a PTL module with light and display. When an order or kit step is released, the required bins light up and show the pick quantity.

The operator confirms at the bin (button/touch/sensor). ELAM Solutions validates, applies interlocks if needed, and advances to the next step. All confirmations are logged to the order or serial number.

When operators no longer search, everything speeds up. Bossard Pick-to-Light brings instructions to the shelf: bright LEDs and clear quantities show exactly what to pick, where, and in which sequence. Confirmation at the location – by button, touch, or hands-free sensor – keeps flow smooth and catches errors before they leave the station. Connected to ELAM Solutions, each pick is validated, recorded, and fully traceable.

Why to choose Bossard Pick-to-Light?

– Instant recognition: lamps and quantity displays light up at the right bin; no paper lists, no hunting.
– Fast to train, simple to run: operators learn in minutes and stay in flow – even in high-mix environments.
– Error-proof by design: the process only advances after a valid confirmation (OK/NOK logic).
– Scales with your business: start with a few bins, grow to full kitting zones or mobile racks.
– Works your way: supports pick-to-light and put-to-light as well as multi-order scenarios.
– One platform: seamless with ELAM Solutions for variant handling, rework, labels, and analytics.

Technical Details

Features

⚙ FULLY AUTOMATED

✍ REDUCED SEARCH TIMES

📊 ELECTRONIC PICKING

✓ PREVENT WRONG PART PICKING

💡 LED LIGHT SIGNAL

📈 DIGITAL DASHBOARD

🔄 ADAPTABILITY
Use of existing infrastructure

Highlights

– Native integration for traceability
– Interfaces with ERP/MES/WMS systems via ELAM Solutions
– Multi-order workflows supported without additional hardware
– Supports scalable configurations with up to 65 PTL modules per controller

Model	IoT Status in ELAM	Pick Confirmation	Advantages	Max. number PTL per controller
PTL with Button	Yes	Button press	A fast and very visible PTL ignition with a fast response time.	100
PTL with Touch	Yes	Touch	It has a fast and very visible PTL ignition and a fast response time. It is space efficient due to its small size.	100
PTL with Sensor	Yes	Sensor	It has a fast and highly visible PTL ignition and a fast response time. No additional action is needed to confirm, as its sensors recognize the picking action in the correct box.	100

Bossard SmartTower –
Guided picking. Proof in real time.

Bossard SmartTower is an innovative solution for optimizing the picking process. Smart and digital employee guidance, as well as the intelligent provision of components, can reduce search times and increase productivity.

How it works

SmartTower is an innovative solution for compact, error-free kitting. With LED guidance and integrated weighing sensors, each pick is verified in real time. The multi-layer disc design saves space while ensuring zero-defect picking and faster processes.

Our SmartTower ensures error-free and efficient assembly by providing the components in the correct sequence. The picking of parts is recorded in real time by integrated weighing sensors and the stock is updated automatically.
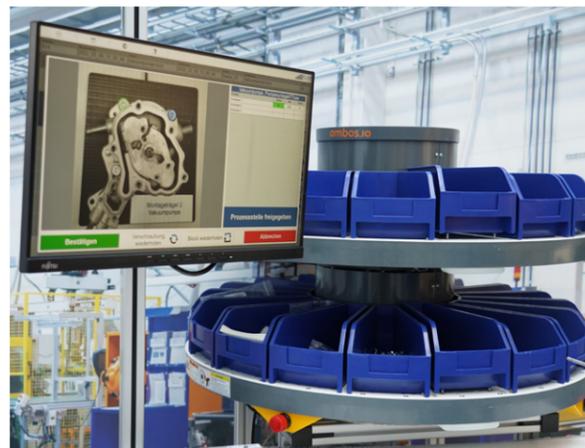
Why to choose Bossard SmartTower?

– Zero-defect picking through guided sequence and NOK/OK logic
– Real-time stock updates with integrated weight sensors
– Reduced search times thanks to smart part provisioning
– Compact footprint with multi-layer disc design
– Easy integration with ELAM Solutions and dashboards

Technical Details

Features

FULLY AUTOMATED

WEIGHT SENSORS

REDUCED SEARCH TIMES

ELECTRONIC PICKING

PREVENT WRONG PART PICKING

LED - LIGHT SIGNAL

DIGITAL DASHBOARD

Connect all of your IoT devices

Smart Factory Assembly quickly and easily transforms your assembly into a smart and intelligent working environment. Connect the Bossard SmartTower with our worker guidance software ELAM Solutions. This allows you to collect all real-time data and manage it centrally.

Highlights

– Compact disc design with multiple layers
– Integrated weight sensors for each pick
– Error-proof processes with real-time validation
– Seamless integration with ELAM Solutions and higher-level systems

Technical Data

Net weight	40 kg per disc
Load weight	100 kg per disc
Capacity	18 boxes à 1,8 liter (max. 5 kg/box) 9 boxes à 4 liter (max. 10 kg/box)
Max. discs per tower	6
Sensitivity of the scale	0,4 g
Optional	Scanner, ESD

Dimensions per disc

Height	~ 30 cm
Diameter	90 cm
Safety distance	50 cm

The right torque tool for every application
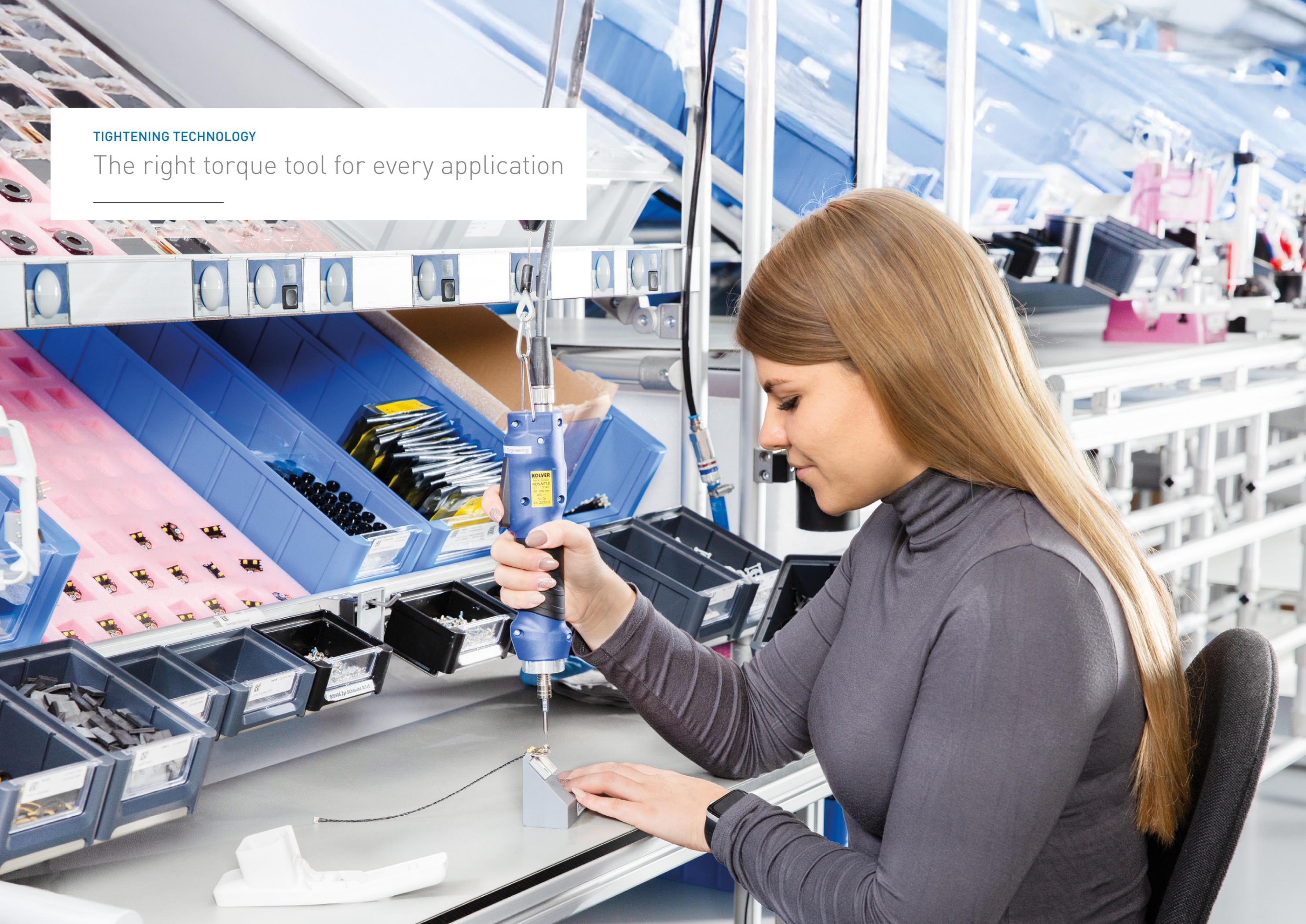
BOSSARD TIGHTENING TECHNOLOGY
The solution for modern manufacturing

When talking about tightening tools, there are key technical criteria that distinguish one solution from another. One of the most fundamental is the tool type, such as Battery Tools, Cable Tools, and Torque Wrenches.

Battery Tools offer the flexibility needed in dynamic production environments – ideal when operators must move freely around large parts or within a wide working area. They are particularly useful when tightening locations are hard to reach with stationary tools.

Cable Tools, on the other hand, are best suited for fixed workstations and high-volume, repetitive tasks. Typically suspended from a tool balancer, they provide consistent performance and, at higher torque levels or when precise alignment is required, can be paired with carbon torque reaction arms or linear guides for additional support and precise tool alignment.

And then there's the **Torque Wrench** – still an essential tool for many applications. Today's models are far more advanced, featuring integrated torque sensors, gyroscopes for torque and angle measurement, and communication modules for seamless data transfer to process control systems such as **ELAM Solutions**.

These tool types form the backbone of modern tightening processes – reliable, smart, and tailored to meet the demands of Industry 4.0.

Battery Tools   Cable Tools   Torque Wrench

ARMBRUSTER ENGINEERING
BOSSARD SmartTool

KOLVER

Garant
STAHLWILLE

SEAMLESS INTEGRATION
Level of Integration - How "Smart" can it be?

Level 4

Level 3

Level 2

Level 1

RESULT TRANSMISSION	INTEGRATION OF SIMPLE TOOLS	SMARTTOOLS WITHOUT SENSOR	SMARTTOOLS WITH SENSOR
- Tools / Gauges are connected via Bluetooth - Connected tools send the result value as a keyboard entry - No tool control via ELAM Solutions **All Bluetooth-enabled devices capable keyboard-emulated data transmission can be seamlessly connected.**	- Tools and measuring devices are connected through our digital I/O interface - Status will be transmitted and documented (OK/Not OK) - Program selection for >1 torque application and process monitoring with simple sensor technology	- Tools are WiFi connected - Communication via ELAM Protocol - Process monitoring (re-hit and torque reached detection) - Status will be transmitted and documented (OK/Not OK) - Tool can be locked / unlocked via ELAM Solutions	- Tools are usually connected via WiFi or Ethernet - Communication via ELAM Protocol - Advanced process monitoring features - Status and result values are transmitted and documented - Full control over the tool - Up to 250 programs

Your Brands. Our Solution.

Whether you work with our tools or prefer to use your favorite brands, ELAM Solutions is flexible. Many leading manufacturers are already integrated - ready to go right away, without any detours.

Curious? Click **[here]** for more details or reach out to us directly.

Overview

Level 3

Technical Details

SMACO 5 & SMACO 8 - Smart, cordless dream-team made in Germany!

The SMACO 5 and SMACO 8 are next-gen smart fastening tools that combine modern communication with mechanical torque systems and offer Wi-Fi operation, Open Protocol, and full ELAM Solutions compatibility for wireless lock/unlock, direct process feedback, and intelligent status indication. While both share these features, the SMACO 5 delivers 0.3–2.9 Nm with a 2-speed gearbox for precise Category-C tasks in tight or flexible setups, whereas the SMACO 8 extends to 3–8 Nm with fine torque adjustment and seven PC-configurable speed profiles for more demanding applications in field and production settings.

Advantages:

– Mechanical clutch tool with process control and enhanced process feedback
– Wireless Wi-Fi connectivity for maximum flexibility
– Full compatibility with ELAM Solutions
– RGB status indication for clear operational status
– Wireless locking and unlocking
– Wide torque range from 0.3 up to 8 Nm
– SMACO 8 with embedded controller and programming features
– VDI 2862 ready

Level of Integration 3:

Tool integration via ELAM protocol for advanced control features. Status transmission only (OK/NOK)

Smaco 5   Smaco 8

SMACO 5 Highlights:

– Built-In WiFi and Open Protocol
– Locking/release and status transmission with ELAM Solutions
– Weighs only 540gr.
– 2 speed gear with up to 200 or 600 rpm
– Torque range adjustable between 0,3 and 2,9 Nm
– Choose one of 21 torque settings
– Built-in deep discharge battery protection

SMACO 8 Highlights:

– Built-In Wifi and Open Protocol
– Locking/release and status transmission with ELAM Solutions
– Up to 8 individual programs
– Advanced controls and monitoring features (Speed, time, ramps)
– Up to 1250 rpm to speed up your process
– Choose one of 21 torque settings
– Built-in deep discharge battery protection

Tools and Bundles

Article No.	Name	Description	Torque	Speed	Tool Drive	Battery Voltage	Dimensions	Weight
9092331	Smart Cordless Screwdriver 5	7.2V cordless articulated screwdriver with WiFi, 21 torque settings, 2-speed gearbox, 1/4" hex socket. Includes 2 batteries & charger.	0.3 Nm – 2.9 Nm	0 – 200 rpm / 0 – 650 rpm	1/4" hex	7.2 V	115 x 125 x 64 mm	0.54 kg
9109555	Smart Cordless Screwdriver 8	18V cordless pistol screwdriver with WiFi, adjustable slip clutch (3–8 Nm), 1250 rpm max, 1/4» hex socket, 1.6 kg incl. battery. Includes 2 batteries & charger.	3.0 Nm – 8.0 Nm	0 – 1250 rpm	1/4" hex	18 V	179 x 81 x 258 mm	1.6 kg
9092330	Starter Kit ELAM Solutions	Starter set for easy ELAM Solutions onboarding: create your own key organizer, explore advanced workflow features, and boost productivity with the connected SMACO tool for process control and documentation.						

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Ingersoll Rand

STANLEY Engineered Fastening

Desoutter

Cleco Production Tools

Atlas Copco

Overview

Level 4

Intelligent tightening systems in assembly increase process reliability and productivity, resulting in significant cost savings. Battery-powered torque tools equipped with sensors can be the first step toward the digitalization of your production. They enable work independent of the controller's location or even have the controller embedded for additional cost savings and reduced complexity. The tools connect via WiFi to our ELAM Solutions worker guidance system, receive information about the next process step and return process data such as the status, tightening torque and rotation angle for a consistent documentation.

Bossard SmartTools Advantages:

– Common torque range of from 0.8 up to 120 Nm
– High-Torque Tools up to 1250 Nm available (on request)
– All commonly used torque and angle tightening strategies available
– Full integration (Level 4) into ELAM Solutions
– WiFi data communication
– Result transmission for a consistent documentation
– Easy to handle and fast on-boarding
– Available as pistol or angle tool to access hard-to-reach tightening positions

Level of Integration 4:

Tool integration via ELAM protocol for advanced control features. Smart tools with Sensor enable result transmission (torque and angle).

Pistol Tool   Angle Tool   Accessories

Technical Details

Two Series – Tailored for Different Needs

The tools are available in two series: Bossard Blue (-L) and Bossard Black. The key difference lies in the built-in sensor technology:

Bossard Blue (-L)
Entry-level series, equipped with a standard static torque sensor providing accuracy up to ±7% (cm/cmk 2.0). The angle is calculated via motor revolutions.

Bossard Black
Features a rotary torque transducer combined with an additional angle encoder. This advanced setup delivers maximum accuracy up to ±5% (cm/cmk 2.0) in both torque and angle measurements. Very few tool manufacturers worldwide use this high-end technology. Beyond precision, the reliability of the tools is significantly enhanced as well.

Tool Overview

Pistol-Tools   Angle-Tools

	Basic Sensor	Advanced Sensor	Torque Range [Nm]
			0.8 2 5 8 11 14 15 20 25 30 55 85 90 120
Pistol Tool		TT11B-10(-S)	0.8 – 11
Pistol Tool	TT11B-12L(-S)		2 – 14
Angle Tool	TT34B-20L(-S)	TT34B-20(-S)	5 – 20
Angle Tool	TT34B-30L(-S)	TT34B-30(-S)	10 – 30
Angle Tool	TT35B-55L(-S)	TT35B-55(-S)	20 – 50
Angle Tool	TT35B-85L(-S)	TT35B-85(-S)	30 – 85
Angle Tool		TT35B-120(-S)	35 – 120
Angle Tool	On request	On request	Up to 1250Nm!

(-S) = Optional scanner

Tools

Pistols with Basic Sensors

Article Number	Name	Torque	Speed	Tool Drive	Communication	Scanner	Dimensions (LxWxH)	Weight
9044025	TT11B-12L	2.0 – 14.0 Nm	20 – 530 rpm	1/4" - Form E - Quick	Wi-Fi	-	230 × 72 × 211 mm	1.15 kg
9044026	TT11B-12L-S	2.0 – 14.0 Nm	20 – 530 rpm	1/4" - Form E - Quick	Wi-Fi	Yes	230 × 72 × 211 mm	1.15 kg

Angle Tool with Basic Sensors

Article Number	Name	Torque	Speed	Tool Drive	Communication	Scanner	Dimensions (LxWxH)	Weight
9044145	TT34B-20L	5.0 – 20.0 Nm	15 – 340 rpm	1/4" - Form E - Quick	Wi-Fi	-	452 × 72 × 94 mm	1.45 kg
9044200	TT34B-20L-S	5.0 – 20.0 Nm	15 – 340 rpm	1/4" - Form E - Quick	Wi-Fi	Yes	452 × 72 × 94 mm	1.45 kg
9044201	TT34B-30L	10.0 – 30.0 Nm	10 – 200 rpm	3/8" square	Wi-Fi	-	530 × 72 × 94 mm	2.25 kg
9044202	TT34B-30L-S	10.0 – 30.0 Nm	10 – 200 rpm	3/8" square	Wi-Fi	Yes	530 × 72 × 94 mm	2.25 kg
9044203	TT35B-55L	20.0 – 55.0 Nm	5 – 120 rpm	3/8" square	Wi-Fi	-	586 × 72 × 94 mm	2.67 kg
9044265	TT35B-55L-S	20.0 – 55.0 Nm	5 – 120 rpm	3/8" square	Wi-Fi	Yes	586 × 72 × 94 mm	2.67 kg
9044266	TT35B-85L	30.0 – 85.0 Nm	4 – 80 rpm	1/2" square	Wi-Fi	-	630 × 72 × 94 mm	3.00 kg
9044267	TT35B-85L-S	30.0 – 85.0 Nm	4 – 80 rpm	1/2" square	Wi-Fi	Yes	630 × 72 × 94 mm	3.00 kg
On request	TT35B-120L	35.0 – 120.0 Nm	3 – 70 rpm	1/2" square	Wi-Fi	-	647 × 72 × 94 mm	3.40 kg
On request	TT35B-120L-S	35.0 – 120.0 Nm	3 – 70 rpm	1/2" square	Wi-Fi	Yes	647 × 72 × 94 mm	3.40 kg

Tools

Pistols with Advanced Sensors

Article Number	Name	Torque	Speed	Tool Drive	Communication	Scanner	Dimensions (LxWxH)	Weight
9043585	TT11B-10	0.8 – 11.0 Nm	20 – 740 rpm	1/4" - Form E - Quick	Wi-Fi	-	230 × 72 × 211 mm	1.15 kg
9043725	TT11B-10-S	0.8 – 11.0 Nm	20 – 740 rpm	1/4" - Form E - Quick	Wi-Fi	Yes	230 × 72 × 211 mm	1.15 kg
On Request	TT11B-12	1.0 – 14.0 Nm	20 – 530 rpm	1/4" - Form E - Quick	Wi-Fi	-	230 × 72 × 211 mm	1.15 kg
On Request	TT11B-12-S	1.0 – 14.0 Nm	20 – 530 rpm	1/4" - Form E - Quick	Wi-Fi	Yes	230 × 72 × 211 mm	1.15 kg

Angle Tool with Advanced Sensors

Article Number	Name	Torque	Speed	Tool Drive	Communication	Scanner	Dimensions (LxWxH)	Weight
9043727	TT34B-20	5.0 – 20.0 Nm	16 – 370 rpm	1/4" - Form E - Quick	Wi-Fi	-	452 × 72 × 94 mm	1.45 kg
9043728	TT34B-20-S	5.0 – 20.0 Nm	16 – 370 rpm	1/4" - Form E - Quick	Wi-Fi	Yes	452 × 72 × 94 mm	1.45 kg
9043970	TT34B-30	10.0 – 30.0 Nm	10 – 240 rpm	3/8" square	Wi-Fi	-	530 × 72 × 94 mm	2.25 kg
9044010	TT34B-30-S	10.0 – 30.0 Nm	10 – 240 rpm	3/8" square	Wi-Fi	Yes	530 × 72 × 94 mm	2.25 kg
9044011	TT35B-55	20.0 – 55.0 Nm	6 – 130 rpm	3/8" square	Wi-Fi	-	586 × 72 × 94 mm	2.67 kg
9044012	TT35B-55-S	20.0 – 55.0 Nm	6 – 130 rpm	3/8" square	Wi-Fi	Yes	586 × 72 × 94 mm	2.67 kg
9044013	TT35B-85	30.0 – 85.0 Nm	3 – 80 rpm	1/2" square	Wi-Fi	-	630 × 72 × 94 mm	3.00 kg
9044014	TT35B-85-S	30.0 – 85.0 Nm	3 – 80 rpm	1/2" square	Wi-Fi	Yes	630 × 72 × 94 mm	3.00 kg
On Request	TT35B-120	35.0 – 120.0 Nm	2 – 60 rpm	1/2" square	Wi-Fi	-	647 × 72 × 94 mm	3.40 kg
9070140	TT35B-120-S	35.0 – 120.0 Nm	2 – 60 rpm	1/2" square	Wi-Fi	Yes	647 × 72 × 94 mm	3.40 kg

Accessories

Chargers

Article No.	Name	Input	Charging Current	Charging time	Dimensions	Weight
9044834	BST-Battery Charger-2830	220 - 240 V (AC) @ 50 - 60Hz	3 Amps	~ 55 mins with 2.5 Ah battery	85 × 110 × 155 mm	0.55 kg
9044850	BST-Battery Charger-2830-USA	110 V (AC) @ 50 - 60Hz	3 Amps	~ 55 mins with 2.5 Ah battery	85 × 110 × 155 mm	0.55 kg

Batteries*

Article No.	Name	Voltage	Capacity	Weight
9044831	BST-Li-Ion Akku-1825	18 V	2.5 Ah	0.35 kg
9044832	BST-Li-Ion Akku-1850	18 V	5.0 Ah	0.60 kg

Hanging Mounts

Article No.	Name
9091130	Bossard Pistol Tool hanger
9091081	Bossard Smart Tool swivelling hanger rotatable
9091144	Bossard Smart Tool swivelling hanger rotatable

Accessories

Balancers

Article No.	Name	Capacity	Pull-Out Length
9091134	Bossard Smart Tool-floating-balancer up to 3kg	1,0 - 3,0 kg	1.300 mm
9091135	Bossard Smart Tool-floating-balancer up to 5kg	2,5 - 5,0 kg	1.300 mm

Tool Protection Covers

Article No.	Name
9091138	Protection Cover TT11B
9091140	Protection Cover TT34B-20
9091141	Protection Cover TT34B-30
9091142	Protection Cover TT35B-55
9091143	Protection Cover TT35B-85

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*Implementation of Dangerous Goods Transport Regulations:
Transport of lithium ion batteries is in the scope of Dangerous Goods Transport Regulations.
Therefore many specific requirements have to be respected for their transport.
The safe carriage of dangerous goods is important for a sustainable circular economy,
the transport companies and not least for every party involved in the chain of lithium ion battery transport.

Your Brands. Our Solution.

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Curious? Click **[here]** for more details or reach out to us directly.

Overview

Level 2 + 4

Wired tightening systems from our partner Kolver are our first choice for stationary assembly at the workstation, especially in the lower torque range. Depending on the model, the torque range starts as low as 0.1 up to 70 Nm. With both technologies, current and transducerized tools, solutions for all application requirements and wallets are available. A wide range of standardized accessories solve all challenges at the workstation from balancers and linear guides up to position monitoring. All following Kolver tightening systems operate with the Bossard ELAM Solutions software.

Kolver Product Advantages:

– Covers a torque range from 0.1 up to 70 Nm
– All commonly used torque and angle tightening strategies available
– Seamless plug&play Ethernet communication
– Result transmission for a consistent documentation
– Easy to handle and fast on-boarding
– Available as pistol or angle tool to access hard-to-reach tightening positions

Level of Integration 2 + 4:

Tool integration via digital I/O which enables features such as locking and program selection. Status transmission only (OK/NOK). Tool integration via ELAM protocol for advanced control features. Smart tools with Sensor enable result transmission (torque and angle). (Level 2 (Pluto / Mito), Level 4 (K-Ducer)

Torque Tools   Controllers   Positioning Arms

Technical Details

Current-Controlled
Pluto / Mito Series

Highlights:

– Torque (current controlled) and angle
– Up to 8 individual programs
– 1 sequence with up to 8 programs
– External control signal
– Advanced settings such as time, speed, ramps and direction
– Connect 2 tools with DOCK04 double connector
– Printer compatible
– USB data collection

Transducerized
K-Ducer Series

Highlights:

– 5" Colored touch screen
– Up to 200 individual programs
– Up to 24 individual sequences
– 20 digital I/O's
– Real-time torque graph
– Prevailing Torque monitoring & compensation
– Diverse accessories connectable
– Digital interfaces (Modbus, Open Protocol, etc.)
– USB data collection

ESD

ISO International Organization for Standardization

Further Highlights:

1. ESD certified
Kolver's ESD-safe tools reliably protect sensitive electronics from electrostatic discharge, ensuring safe and precise work in all critical applications.

2. Cleanroom certified according ISO 14644
Freshly certified according to the ISO 14644-14 cleanroom standard for Classes 1, 3, 4, and 5, Kolver tools ensure to meet the strictest particle and contamination control standards for ultra-clean environments, making them ideal for semiconductor, pharmaceutical, and precision electronics applications.

Tools

Kolver Controllers

Article No.	Name	Compatibility	Communication	Dimensions (LxWxH)	Weight
9046667	Kolver control unit EDU-2AE/Top	PLUTO and MITO Series	I/O Interface (adapter required)	190 x 205 x 120 mm	2.50 kg
9046668	I/O adapter for Kolver EDU	EDU-2AE/Top	Controller to SWA adapter for ELAM Solutions	310 x 220 x 170 mm	1.30 kg
9052890	Kolver KDU-1A Control Unit	KDS-PL Series	Ethernet	190 x 205 x 120 mm	2.50 kg

Current Controlled Tools - PLUTO & MITO Series

Article No.	Name	Torque	Speed	Tool Drive	Communication	Dimensions (LxWxH)	Weight
9046666	Kolver Screwdriver MITO15D	0.4 Nm – 1.5 Nm	450 – 850 rpm	1/4" hex	Controller cable included	251 x 40 mm	0.55 kg
9052886	Kolver Screwdriver PLUTO3D	0.5 Nm – 2.5 Nm	370 – 1300 rpm	1/4" hex	Controller cable included	251 x 40 mm	0.55 kg
9052887	Kolver Screwdriver PLUTO6D	0.85 Nm – 6.0 Nm	200 – 850 rpm	1/4" hex	Controller cable included	251 x 40 mm	0.55 kg

Transducerized Tools Inline K-Ducer Series

Article No.	Name	Torque	Speed	Tool Drive	Communication	Dimensions (LxWxH)	Weight
9057480	K-Ducer KDS-MT1.5 Screwdriver	0.1 Nm – 1.5 Nm	50 – 850 rpm	1/4" hex	Tool cable for KDS Tools	254 x 40 mm	0.7 kg
9052889	K-Ducer KDS-PL6 Screwdriver	0.5 Nm – 6.0 Nm	50 – 850 rpm	1/4" hex	Tool cable for KDS Tools	251 x 40 mm	0.7 kg
9067585	K-Ducer KDS-PL10 Screwdriver	0.8 Nm – 10.0 Nm	50 – 600 rpm	1/4" hex	Tool cable for KDS Tools	251 x 40 mm	0.7 kg
9067587	K-Ducer KDS-PL15 Screwdriver	0.5 Nm – 15.0 Nm	50 – 320 rpm	1/4" hex	Tool cable for KDS Tools	251 x 40 mm	0.7 kg
9082216	K-Ducer KDS-PL20 Screwdriver	2.0 Nm – 20.0 Nm	20 – 210 rpm	3/8" square	Tool cable for KDS Tools	297 x 43 mm	1.3 kg

Tools

Sensor Tools Angle K-Ducer Series

Article No.	Name	Torque	Speed	Tool Drive	Communication	Dimensions (LxWxH)	Weight
9107020	K-Ducer KDS-MT1.5 Angle Screwdriver	0.1 Nm – 1.5 Nm	50 – 850 rpm	1/4" hex	Tool cable for KDS Tools	288 x 40 mm	0.7 kg
9106545	K-Ducer KDS-PL3 Angle Screwdriver	0.4 Nm – 3.0 Nm	50 – 1800 rpm	1/4" hex	Tool cable for KDS Tools	288 x 40 mm	0.7 kg
9106546	K-Ducer KDS-PL6 Angle Screwdriver	0.5 Nm – 5.5 Nm	50 – 850 rpm	1/4" hex	Tool cable for KDS Tools	288 x 40 mm	0.7 kg
9104482	K-Ducer KDS-PL10 Angle Screwdriver	0.8 Nm – 9.0 Nm	50 – 600 rpm	1/4" hex	Tool cable for KDS Tools	288 x 40 mm	0.7 kg
9106547	K-Ducer KDS-PL15 Angle Screwdriver	0.5 Nm – 15.0 Nm	50 – 320 rpm	3/8" square	Tool cable for KDS Tools	326 x 40 mm	0.9 kg
9106548	K-Ducer KDS-PL15 Angle Screwdriver	0.5 Nm – 12.0 Nm	50 – 320 rpm	1/4" hex	Tool cable for KDS Tools	326 x 40 mm	0.9 kg
9106549	K-Ducer KDS-PL20 Angle Screwdriver	2.0 Nm – 20.0 Nm	20 – 210 rpm	3/8" square	Tool cable for KDS Tools	444 x 48 mm	1.3 kg
9106550	K-Ducer KDS-PL30 Angle Screwdriver	3.0 Nm – 30.0 Nm	20 – 140 rpm	1/2" square	Tool cable for KDS Tools	467 x 58 mm	2.1 kg
9106551	K-Ducer KDS-PL45 Angle Screwdriver	4.0 Nm – 45.0 Nm	20 – 90 rpm	1/2" square	Tool cable for KDS Tools	322 x 43 mm	2.8 kg
9106552	K-Ducer KDS-PL70 Angle Screwdriver	7.0 Nm – 70.0 Nm	10 – 50 rpm	1/2" square	Tool cable for KDS Tools	470 x 58 mm	2.8 kg

Sensor Tools Pistol with bottom connector K-Ducer Series

Article No.	Name	Torque	Speed	Tool Drive	Communication	Dimensions (LxWxH)	Weight
9085158	Kolver pistol style screwdriver KDS-MT1.5P/ESD	0.1 Nm – 1.5 Nm	50 – 850 rpm	1/4" hex	Tool cable for KDS Tools	186 x 172 x 50 mm	0.7 kg
9085155	Kolver pistol style screwdriver KDS-PL6P/ESD	0.5 Nm – 6.0 Nm	50 – 850 rpm	1/4" hex	Tool cable for KDS Tools	186 x 172 x 50 mm	0.7 kg
9085156	Kolver pistol style screwdriver KDS-PL10P/ESD	0.8 Nm – 10.0 Nm	50 – 600 rpm	1/4" hex	Tool cable for KDS Tools	186 x 172 x 50 mm	0.7 kg
9085157	Kolver pistol style screwdriver KDS-PL15P/ESD	0.5 Nm – 15.0 Nm	50 - 320 rpm	1/4" hex	Tool cable for KDS Tools	186 x 172 x 50 mm	0.7 kg

Sensor Tools Pistol with Top connector K-Ducer Series

| Article No.	Name	Torque	Speed	Tool Drive	Communication	Dimensions (LxWxH)	Weight
9085149	Kolver pistol style screwdriver KDS-MT1.5P/U/ESD	0.1 Nm – 1.5 Nm	50 – 850 rpm	1/4" hex	Tool cable for KDS Tools	186 x 172 x 50 mm	0.7 kg
9085146	Kolver pistol style screwdriver KDS-PL6P/U/ESD	0.5 Nm – 6.0 Nm	50 – 850 rpm	1/4" hex	Tool cable for KDS Tools	186 x 172 x 50 mm	0.7 kg
9085147	Kolver pistol style screwdriver KDS-PL10P/U/ESD	0.8 Nm – 10.0 Nm	50 – 600 rpm	1/4" hex	Tool cable for KDS Tools	186 x 172 x 50 mm	0.7 kg
9085148	Kolver pistol style screwdriver KDS-PL15P/U/ESD	0.5 Nm – 15.0 Nm	50 – 320 rpm	1/4" hex	Tool cable for KDS Tools	186 x 172 x 50 mm	0.7 kg

Accessories

Kolver Balancers

Article No.	Name	Description		Capacity
9100555	TECBA1			0.4 – 1.0 kg
9098986	TECBA2	Enhances productivity and safety by suspending tools in an ergonomically optimal position		1.0 – 2.0 kg
9085145	TECBA3			2.0 – 3.0 kg

Kolver Linear and folding arm

Article No.	Name	Max Torque	Max Payload	Min Reach	Max Reach	Weight
9052902	Linear torque reaction arm, 25 Nm	25 Nm	1.5 kg	184 mm	665 mm	1.5 kg
9052903	Linear torque reaction arm, 50 Nm	50 Nm	1.5 kg	184 mm	655 mm	1.5 kg
9052904	Folding torque reaction arm, 25 Nm	25 Nm	1.4 kg	114 mm	740 mm	1.6 kg

Kolver Linear and folding arm with position monitoring
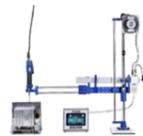
Article No.	Name	Max Torque	Max Payload	Min Reach	Max Reach	Weight
9052908	K-DUCER linear torque reaction arm with position detection	25 Nm	1.5 kg	184 mm	665 mm	1.6 kg
9052910	K-DUCER folding torque reaction arm with position detection, front folding section	25 Nm	1.4 kg	184 mm	740 mm	1.7 kg
9052909	K-DUCER linear torque reaction arm with position detection	50 Nm	1.5 kg	114 mm	665 mm	1.6 kg

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Accessories

Kolver Telescopic Carbon Arm

Article No.	Name	Max Torque	Max Payload	Min Reach	Max Reach	Weight
9052896	Kolver positioning Carboarm, 10 Nm, 549 – 904mm	10 Nm	2.7 kg	549 mm	906 mm	0.20 kg
9052897	Kolver positioning Carboarm, 25 Nm, 490 – 950mm	25 Nm	2.7 kg	490 mm	950 mm	0.60 kg
9052899	Kolver positioning Carboarm, 25 Nm, 730 – 1650mm	25 Nm	2.7 kg	730 mm	1650 mm	0.75 kg
9052900	Kolver positioning Carboarm, 50 Nm, 490 – 950mm	50 Nm	2.7 kg	490 mm	950 mm	0.65 kg
9052901	Kolver positioning Carboarm, 50 Nm, 730 – 1650mm	50 Nm	2.7 kg	730 mm	1650 mm	0.80 kg

Accesoirs

Article No.	Name	Description
9052893	Cable 2.5m for KDS Tools	Cable with M16 10pin connector
9052895	Cable 5m for KDS Tools	Cable with M16 10pin connector
9052891	Kolver Controller Table Stand	Table stand for Kolver control unit
9052892	Kolver Controller Wall Mount	For wall or column use including tilting function
9091250	Dock05 for KDU series	Runs two KDU tools with one controller (not simultaneously)
9104483	Kolver Bit Cube	Allows quick and easy selection of up to 8 bits , improving efficiency and reducing downtime
9104484	Kolver Bit Cube adapter cable	Adapter Kit for Bitcube Works only with Kolver Bitcube incl. cable

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Curious? Click [here] for more details or reach out to us directly.

Overview

The GARANT HCT Torque Wrench is a high-precision tightening tool designed for demanding industrial assembly tasks. With it´s built-in torque transducer and gyroscope, it offers consistent and highly accurate torque and angle readings with a broad torque range to suit various fastening applications. Engineered with robust materials and an ergonomic design, it ensures long service life and operator comfort. The wrench provides reliable torque and angle control strategies to reduce rework and guarantee assembly quality, making it ideal for automotive, mechanical engineering, and maintenance operations. Due to it´s Bluetooth communication module it easily connects to ELAM Solutions for torque result transmission.

GARANT Advantages:

– Bluetooth connectivity for ELAM Solutions result transmission
– 2.8" TFT color display with dual scale, showing torque and angle simultaneously; ,backlit for excellent readability.
– High measurement accuracy: ±2 % for torque and ±1° for angle, with fine resolution down to 0.1 Nm and 0.1°.
– Multiple operating modes such as Peak, Track, First-Peak, and Peak-Hold - configurable via programming software or directly on the tool.
– Ergonomic, durable handle made of oil- and fuel-resistant plastic for comfortable use in demanding environments.
– Acoustic, visual, and haptic feedback when the set torque is reached, preventing overtightening.
– Calibrated according to DIN EN ISO 6789

Level of Integration 1:

Simple integration with manual, keyboard-emulated result transmission.

Digital Torque Wrenches

Technical Details

Highlights:

– Large, high-contrast, bright, viewing angle-stable 2.8-inch TFT display with dual scale
– Wide torque range from 2,4 Nm up to 850 Nm
– High accuracy of max. +/- 3%
– Up to 100 individual programs
– Up to 10 sequences with 10 programs each
– Stores up to 1000 results
– Data communication via Bluetooth or USB-C
– Visual, acoustic, and tactile worker feedback
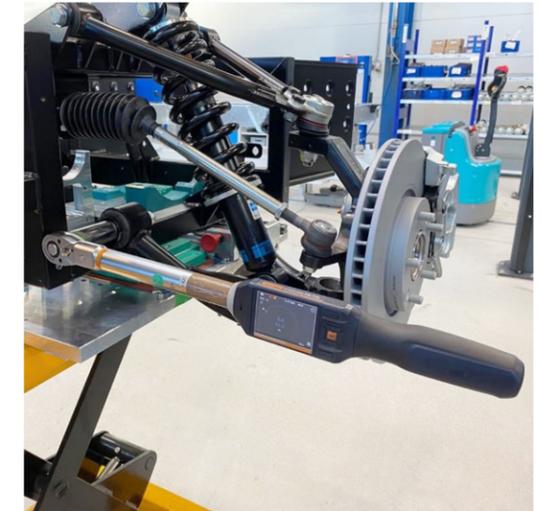
HCT Electronic torque wrench

Article.	Name	Torque range	Length	Tool Drive	Dimensions (LxWxH)	Weight
On Request	HCT 12Nm	2.4 Nm – 12 Nm	370 mm	1/4" square	370 x 57.5 x 45 mm	0.7 kg
	HCT 30Nm	6 Nm – 30 Nm	370 mm	1/4" square	370 x 57.5 x 45 mm	0.7 kg
	HCT 50Nm	10 Nm – 50 Nm	407.5 mm	3/8" square	407.5 x 57.5 x 45 mm	0.9 kg
	HCT 100Nm	20 Nm – 100 Nm	423.4 mm	1/2" square	418.5 x 57.5 x 45 mm	1.1 kg
	HCT 200Nm	40 Nm – 200 Nm	530 mm	1/2" square	530 x 57.5 x 45 mm	1.5 kg
	HCT 340Nm	68 Nm – 340 Nm	650 mm	1/2" square	650 x 57.5 x 45 mm	1.6 kg
	HCT 500Nm	100 Nm – 500 Nm	950 mm	3/4" square	941 x 57.5 x 45 mm	3.1 kg
	HCT 850Nm	170 Nm – 850 Nm	1226 mm	3/4" square	1220 x 57.5 x 45 mm	4.2 kg

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Ingersoll Rand

STANLEY Engineered Fastening

Desoutter

Cleco Production Tools

Atlas Copco

Overview

Level 4

The Stahlwille MANOSKOP® 766 DAPTIQ Torque Wrench is a smart electromechanical tool that combines the proven reliability of mechanical torque control with advanced digital connectivity. It communicates seamlessly via radio or WiFi, allowing full integration into ELAM Solutions and Smart Factory concepts. With its open programming interface, the wrench can be configured, monitored, and managed within Industry 4.0 systems. It not only signals the achievement of target values with tactile, acoustic, and visual feedback, but also enables real-time data exchange, documentation of fastening results, and remote updates. Robust, ergonomic, and future-ready, the MANOSKOP® 766 DAPTIQ ensures precision, traceability, and efficiency in demanding industrial applications.

Stahlwille DAPTIQ® Advantages:

– The only digital wrench with a mechanical "click"
– Four measurement modes available
– High-resolution color OLED display and side signal lights
– Torque status visualization: pre-warning, tolerance, out-of-tolerance
– Different communication modules available
– Programmable via Stahlwille Tool Manager
– Ergonomic 2-component handle
– Calibrated to DIN EN ISO 6789-2
– Li-Ion battery powered

Level of Integration 4:

Tool integration via ELAM protocol for advanced control features. Smart tools with Sensor enable result transmission (torque and angle).

Digital Torque Wrenches   Digital Screwdrivers   Accessories

Technical Details

Highlights Manoskop 766:

– The only digital wrench with a real "click"
– Huge torque range starting from 1 Nm up to 1000 Nm
– 4 measurement modes: Torque, Angle, Torque controlled + Angle monitored and Angle controlled + Torque monitored
– Choose your communication module: WiFi, Bluetooth or 868 / 915 MHz radio
– Best in class accuracy of max. +/- 2 % for torque and +/- 1 % for angle readings
– Up to 60m range of motion
– 5 wrenches per base station
– Robust, industrial grade color display
– Battery holds for a whole workday (8 hrs.)
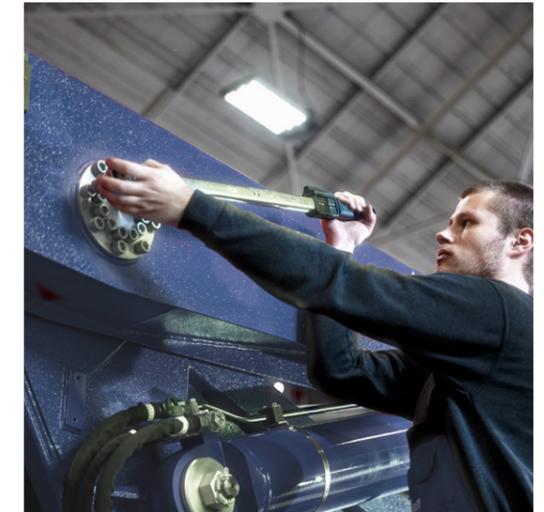
Highlights Torsiotronic:

– Digital Screwdriver with the original "click"
– Designed for low torques from 0,12 Nm up to 10 Nm
– No more overtightening due to a uniquely designed slip-clutch
– 3 control modes: Click, Track, Peak Hold
– Choose your communication module: WiFi, Bluetooth or 868 / 915 MHz radio
– Outstanding +/- 4% tolerance
– Stores up to 2500 results
– Bright and battery-saving OLED color-display

Tools

Torsiotronic DAPTIQ

Article No.	Name	Torque	Tool Drive	Tool Length	Weight
Coming soon	Torsiotronic 1,2	0,12 Nm - 1,20 Nm	1/4" square	317 mm	0.52 kg
	Torsiotronic 3	0,3 Nm - 3,0 Nm	1/4" square	317 mm	0.52 kg
	Torsiotronic 6	0,6 Nm - 6,0 Nm	1/4" square	317 mm	0.52 kg
	Torsiotronic 10	1,0 Nm - 10 Nm	1/4" square	317 mm	0.52 kg

Manoskop 766 DAPTIQ

Article No.	Name	Torque	Tool Drive	Dimensions (LxWxH)	Weight
9084862	MANOSKOP 766/1	1 Nm – 10 Nm	9 x 12 mm	226 x 28 x 23 mm	0.37 kg
9084863	MANOSKOP 766/2	2 Nm – 20 Nm	9 x 12 mm	226 x 28 x 23 mm	0.38 kg
9084864	MANOSKOP 766/4	4 Nm – 40 Nm	9 x 12 mm	252 x 28 x 23 mm	0.42 kg
9084865	MANOSKOP 766/6	6 Nm – 60 Nm	9 x 12 mm	393 x 28 x 23 mm	0.81 kg
9084866	MANOSKOP 766/10	10 Nm – 100 Nm	9 x 12 mm	466 x 28 x 23 mm	1.09 kg
9084867	MANOSKOP 766/20	20 Nm – 200 Nm	14 x 18 mm	547 x 28 x 23 mm	1.36 kg
9084868	MANOSKOP 766/40	40 Nm – 400 Nm	14 x 18 mm	687 x 28 x 23 mm	1.77 kg
9084869	MANOSKOP 766/65	65 Nm – 650 Nm	22 x 28 mm	890 x 30.6 x 25.6 mm	3.22 kg
9084870	MANOSKOP 766/80	80 Nm – 800 Nm	22 x 28 mm	1158 x 30.6 x 25.6 mm	4.57 kg
9084872	MANOSKOP 766/100	100 Nm – 1000 Nm	22 x 28 mm	1343 x 30.6 x 25.6 mm	4.99 kg

Accessories

Ratched heads

Article No.	Name	Max. Torque	Tool Drive	Wrench drive	Distance to drive center	Dimensions (W x H)	Weight
9084921	725/4 QR QuickRelease-Ratchet	40 Nm	1/4" square	9 x 12 mm	17.5 mm	22 x 13.8 mm	50 g
9084922	725/5 QR QuickRelease-Ratchet	100 Nm	3/8" square	9 x 12 mm	28 mm	29 x 18 mm	130 g
9084923	725/10 QR QuickRelease-Ratchet	100 Nm	1/2" square	9 x 12 mm	28 mm	29 x 18 mm	141 g
9084924	725/4 Plug-in Ratchet	40 Nm	1/4" square	9 x 12 mm	17.5 mm	22 x 13.8 mm	62 g
9084930	735/5 Fine Tooth Ratchet	100 Nm	3/8" square	9 x 12 mm	17.5 mm	33 x 24 mm	150 g
9084931	735/10 Fine Tooth Ratchet	100 Nm	1/2" square	9 x 12 mm	17.5 mm	33 x 24 mm	147 g
9084932	735/20 Fine Tooth Ratchet	300 Nm	1/2" square	14 x 18 mm	25 mm	43 x 26 mm	302 g
9084933	735/40 Fine Tooth Ratchet	400 Nm	3/4" square	14 x 18 mm	25 mm	50 x 31.5 mm	515 g
9084934	735/40HD Fine Tooth Ratchet	650 Nm	3/4" square	14 x 18 mm	30 mm	58 x 36 mm	725 g
9084935	735/65 Fine Tooth Ratchet	650 Nm	3/4" square	22 x 28 mm	55 mm	61 x 35 mm	1.12 kg
9084936	735/100 Fine Tooth Ratchet	1000 Nm	3/4" square	22 x 28 mm	55 mm	76 x 42 mm	1.89 kg

Accessories

Article No.	Name
9085336	Stahlwille Controller
9084881	Programming cable radio module 868 Mhz
9084882	Base Station 868 MHz 2nd Generation
9084895	PowerPack (Containing 2 Li-Ion batteries and 1 charger)
9084940	Li-Ion battery 7195-2
9084941	Charger for Li-Ion battery No. 7195-3

| Article No.	Name
9084942	Radio Module 868 MHz for MANOSKOP 766
Coming soon	Radio Module 868 MHz for Torsiotronic
	Li-Ion Battery Torsiotronic
	Charger for Li-Ion battery Torsiotronic

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Smart riveting at its best
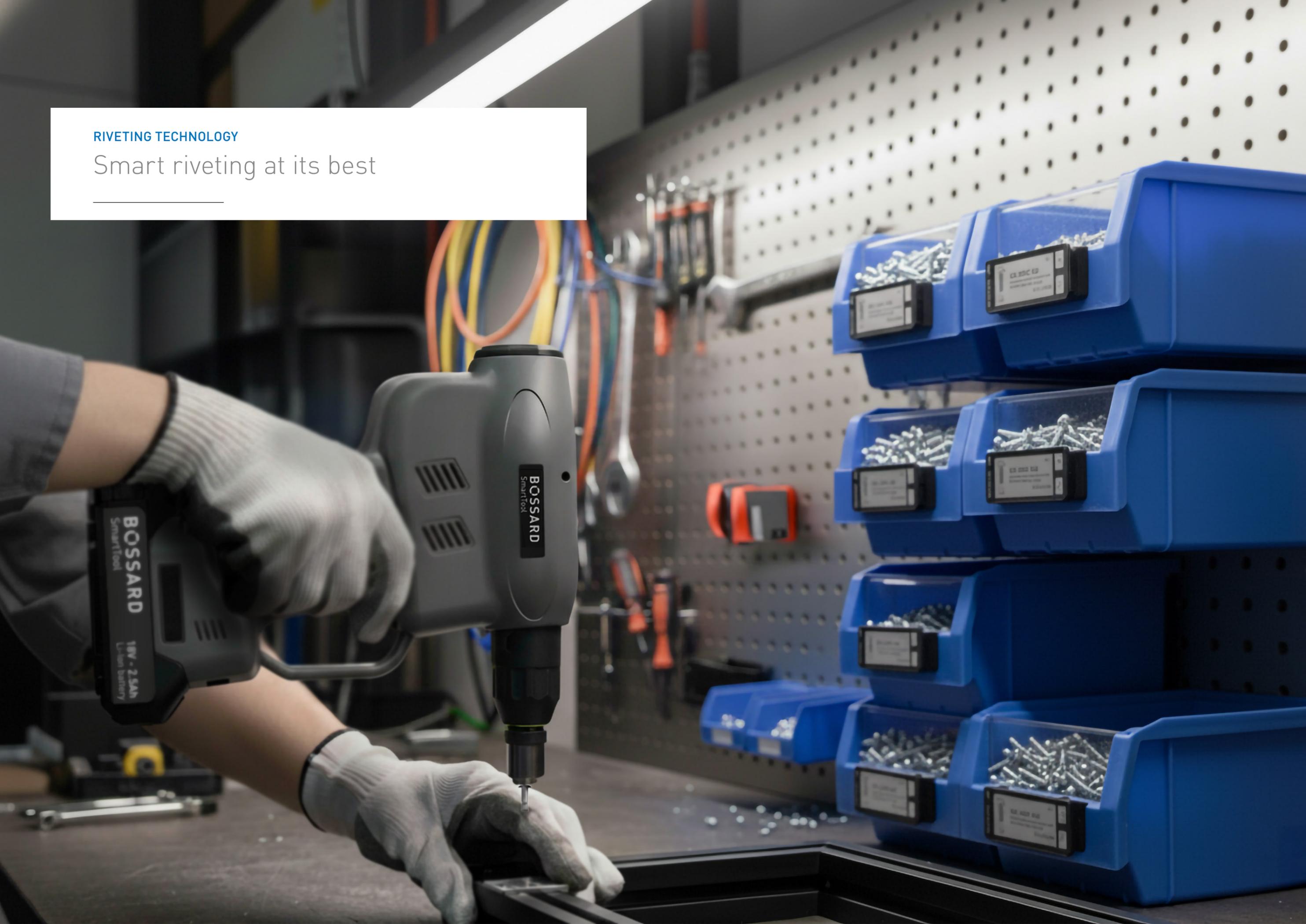
Integrated quality control for your riveting processes

Smart Riveting Tools deliver precision, real-time data, quality assurance, and seamless integration into digital manufacturing.

In industrial and automotive assembly, riveting remains a preferred method for creating strong, permanent joints – especially in applications involving thin-walled materials or restricted back-side access. Two of the most common techniques are blind riveting and blind nut (rivnut) riveting. Each serves a distinct purpose and requires specialized tooling to ensure proper fastener setting and joint integrity.

Blind Riveting Tools

Blind riveting tools are used to install blind rivets, which can be set from one side of the workpiece – ideal when the rear of the joint is inaccessible. These tools typically pull a mandrel through the rivet body to deform and clamp the materials together.

Nowadays, smart riveting tools are increasingly used to monitor and control force and stroke values as built-in quality control. Their battery-powered design makes them highly flexible and easy to use in a variety of applications.

Blind riveting is widely used in sheet metal assemblies, automotive bodywork, HVAC, and aerospace structures.

BOSSARD
SmartTool

Blind Nut Riveting Tools

Blind nut riveting tools – also known as rivnut, clinchnut, or threaded insert tools – install internally threaded fasteners into thin or soft materials. Once installed, they provide a durable thread for receiving bolts or studs.

Controlling rivet nut settings is critical, as they must withstand the preload applied by screws or bolts in a joining process later on. Only high clamp loads ensure the joint remains secure. In today's era of lightweight designs and thinner, weaker materials, ensuring each rivet nut is correctly installed is more important than ever.

Typical areas of usage
These are essential in automotive interiors, electrical enclosures, batteries, and lightweight structures where traditional tapped holes are not possible.

Bossard carries all of them in its Portfolio, for our SFA approach only the Bossard Smarttools play a role as they are currently the only tools connected to ELAM Solutions.

Blind Nut Riveting Tools

Blind Riveting Tools

Typical Errors in assembly	Blind Rivet	Blind Nut Rivet
Misaligned installation		
Without head support		
Incorrect grip range (too long / too short)		
Counting error / Component missing		
Correct Assembly		

Smart Riveting Tools – Costly Upgrade or Game-Changer?
Reliable fastening in modern production is no longer just about installing rivets – it's about process control. The use of force- and stroke-monitored tools guarantees that each fastening will meet the defined parameters, thereby minimizing errors and ensuring part integrity.

Why Monitoring Matters
Traditional tools depend on operator skill, risking inconsistent force or incomplete setting. Digital tools monitor force and stroke in real time, guaranteeing every rivet is applied to specification

Benefits of Digitalization
With increasing production complexity, traceability is essential. Smart tools automatically log process data for audits, compliance, and quality control – instantly detecting deviations and reducing rework or scrap.

Key Advantages
– Consistent joint strength within defined tolerances
– Reduced component damage through controlled force
– Full process documentation for audits and quality assurance
– Real-time feedback enabling process transparency and improvement

Considerations
Though initial costs and training are higher, monitored tools deliver long-term gains in quality, reliability, and traceability – especially for critical or high-volume production.

Smart Solutions from Bossard
Bossard's smart riveting tools, integrated with ELAM Solutions operator guidance software, enhance product quality, cut rework costs, and ensure every fastening meets exact standards.

Overview

The BOSSARD RTB and RNB series are advanced cordless blind riveting and blind-nut riveting tools designed for demanding industrial applications where precision, reliability, and process documentation are essential. Both series feature integrated force sensors with high accuracy, enabling real-time monitoring of the riveting process to ensure consistent quality. Both models offer programmable settings for full integration into Industry 4.0 environments. These tools deliver both power and flexibility with their impressive setting forces of up to 25 kN, optimized stroke speeds, and modular compatibility with different mandrel heads.

The RTB and RNB series represent a fusion of high performance and smart technology, making them an ideal choice for modern manufacturing and assembly tasks.

Advantages:

– High application forces up to 25 kN.
– Adjustable parameters for force, stroke, speed, and time.
– Integrated high precision force and stroke sensors.
– Built-in WiFi communication module.
– Lightweight design.
– OLED Display and 360° multi-color LED's.
– Available with 2.5Ah and 5.0Ah battery packs for maximum durability.

Level of Integration 4:

Tool integration via ELAM protocol for advanced control features. Smart tools with Sensor enable result transmission (torque and angle).
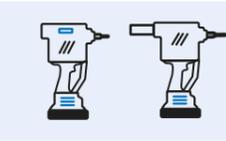
Blind Rivet Tool   Blind Rivet Nut Tool   Accessories

Technical Details

Blind riveting tool
RTB Series

Highlights:

– High forces up to 20 kN
– Force and stroke measurements for process monitoring and documentation
– Best in class force sensor, precision class < 0.5 %
– Highest setting speed of 37 mm/sec.
– Up to 100 individual programs
– Up to 6 steps per program
– Large device stroke of 25mm max.
– Built-In WiFi module
– Stores at least 150.000 results incl. setting curves
– Built-In barcode scanner available (optional)

Blind Rivet Nut Tool
RNB Series

Highlights:

– High forces up to 25 kN
– Force and stroke measurements for process
– monitoring and documentation
– Best in class force sensor, precision class < 0.5 %
– Proven setting tolerance of +/- 7 % at Cm/Cmk > 1.67
– Quick change nose piece from M3 to M10
– Up to 100 individual programs
– Up to 6 steps per program
– Large device stroke of 21mm max.
– Built-In WiFi module
– Stores at least 150.000 results incl. setting curves
– Built-In barcode scanner available (optional)

Tools
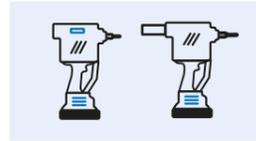
Smart Blind Rivet Tool

Article Number	Name	Setting Force	Stroke	Setting Speed	Max. Mandrel Diameter	Communication	Scanner	Dimensions	Weight
9044275	RTB-20	Up to 20kN	Up to 25mm	37 mm/sec.	6.3mm	Wi-Fi	-	302×73×270 mm	1.7 kg
9044276	RTB-20-S	Up to 20kN	Up to 25mm	37 mm/sec.	6.3mm	Wi-Fi	Yes	302×73×270 mm	1.7 kg

Reduction Pipes for Bossard Smart Blind Riveting Tool

Article No.	Name	Description
9098219	BST-RTB-RP-24	Reduction Pipe max. mandrel diameter 2.4 mm, for 60 mm nose assembly
9098240	BST-RTB-RP-34	Reduction Pipe max. mandrel diameter 3.4 mm, for 60 mm nose assembly
9098241	BST-RTB-RP-39	Reduction Pipe max. mandrel diameter 3.9 mm, for Howmet nose assembly with force sensor

Accessories

Nose Pieces for Bossard Smart Blind Riveting Tool

Article No.	Name	Description
9098307	BST-RTB-NP-18	Nose piece for max. mandrel diameter 1,8mm
9098308	BST-RTB-NP-20	Nose piece for max. mandrel diameter 2,0mm
9098309	BST-RTB-NP-24	Nose piece for max. mandrel diameter 2,4mm
9098320	BST-RTB-NP-27	Nose piece for max. mandrel diameter 2,7mm
9098321	BST-RTB-NP-29	Nose piece for max. mandrel diameter 2,9mm
9098322	BST-RTB-NP-32	Nose piece for max. mandrel diameter 3,2mm
9098323	BST-RTB-NP-36	Nose piece for max. mandrel diameter 3,6mm
9098324	BST-RTB-NP-36/15	Nosepiece for max. mandrel diameter 3.6mm, 15mm extension
9098325	BST-RTB-NP-36/25	Nosepiece for max. mandrel diameter 3.6mm, 25mm extension
9098326	BST-RTB-NP-40	Nose piece for max. mandrel diameter 4,0mm
9098327	BST-RTB-NP-45	Nose piece for max. mandrel diameter 4,5mm
9098328	BST-RTB-NP-45/20	Nose piece for max. mandrel diameter 4,5mm, 20mm extension
9098475	BST-RTB-RNP-18	Retaining-Nose piece for max. mandrel diameter 1,8mm
9098476	BST-RTB-RNP-20	Retaining-Nose piece for max. mandrel diameter 2,0mm
9098477	BST-RTB-RNP-24	Retaining-Nose piece for max. mandrel diameter 2,4mm
9098478	BST-RTB-RNP-27	Retaining-Nose piece for max. mandrel diameter 2,7mm
9098479	BST-RTB-RNP-29	Retaining-Nose piece for max. mandrel diameter 2,9mm
9098480	BST-RTB-RNP-32	Retaining-Nose piece for max. mandrel diameter 3,2mm
9098481	BST-RTB-RNP-36	Retaining-Nose piece for max. mandrel diameter 3,6mm
9098482	BST-RTB-RNP-40	Retaining-Nose piece for max. mandrel diameter 4,0mm
9098483	BST-RTB-RNP-45	Retaining-Nose piece for max. mandrel diameter 4,5mm

Tools
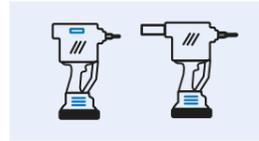
Smart Blind Nut Rivet Tool

Article No.	Name	Setting Force	Stroke	Communication	Scanner	Dimensions (LxWxH)	Weight
9044277	RNB-25	Up to 25kN	Up to 21mm	Wi-Fi	-	212×73×270 mm	2.0 kg
9044278	RNB-25-S	Up to 25kN	Up to 21mm	Wi-Fi	Yes	212×73×270 mm	2.0 kg

Mouth Pieces for Bossard Smart Blind Nut Riveting

Article No.	Name	Description
9044910	BST-RNB-NP-M3	RNB nose piece M3, for blind rivet nuts
9044911	BST-RNB-NP-M4	RNB nose piece M4, for blind rivet nuts
9044912	BST-RNB-NP-M5	RNB nose piece M5, for blind rivet nuts
9044913	BST-RNB-NP-M6	RNB nose piece M6, for blind rivet nuts
9044914	BST-RNB-NP-M8	RNB nose piece M8, for blind rivet nuts
9044925	BST-RNB-NP-M10	RNB nose piece M10, for blind rivet nuts
9044926	BST-RNB-NP-M12	RNB nose piece M12, for blind rivet nuts

Threaded Mandrel for Bossard Smart Blind Nut Riveting

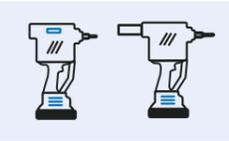| Article No.	Name	Description
9045061	BST-RNB-TM-M3	RNB threaded mandrel M3, for blind rivet nuts
9045062	BST-RNB-TM-M4	RNB threaded mandrel M4, for blind rivet nuts
9045063	BST-RNB-TM-M5	RNB threaded mandrel M5, for blind rivet nuts
9045064	BST-RNB-TM-M6	RNB threaded mandrel M6, for blind rivet nuts
9045070	BST-RNB-TM-M8	RNB threaded mandrel M8, for blind rivet nuts
9045071	BST-RNB-TM-M10	RNB threaded mandrel M10, for blind rivet nuts
9045072	BST-RNB-TM-M12	RNB threaded mandrel M12, for blind rivet nuts

Threaded Sleve for Bossard Smart Blind Bolt Riveting

Article No.	Name	Description
9098460	BST-RNB-TS-M3	NutBee threaded sleeve M3, for blind rivet bolts
9098461	BST-RNB-TS-M4	NutBee threaded sleeve M4, for blind rivet bolts
9098462	BST-RNB-TS-M5	NutBee threaded sleeve M5, for blind rivet bolts
9098463	BST-RNB-TS-M6	NutBee threaded sleeve M6, for blind rivet bolts
9098464	BST-RNB-TS-M8	NutBee threaded sleeve M8, for blind rivet bolts

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Accessories

Bossard Smart Tools Accessories

Article No.	Name	Description
9044831	BST-Li-Ion battery-1825	Li-Ion battery 18 V , 2.5 Ah
9044832	BST-Li-Ion battery-1850	Li-Ion battery 18 V , 5.0 Ah
9044834	BST-Battery Charger-2830	1-bay charger for BST-LB Li-Ion batteries 14,4 V – 18 V,Input Current 220 V – 240 V AC, 50- 60 Hz
9044850	BST-Battery Charger-2830-USA	US-1-bay charger for BST-LB 14,4 V – 18 V, Input Current 110 V"
9091130	Swivelling hanger	Hanger assembly for RTB / RNB

Balancers

Article No.	Name	Capacity	Pull-Out Length
9091134	Bossard Smart Tool-floating-balancer up to 3kg	1,0 - 3,0 kg	1.300 mm
9091135	Bossard Smart Tool-floating-balancer up to 5kg	2,5 - 5,0 kg	1.300 mm

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Whether you work with our tools or prefer to use your favorite brands, ELAM Solutions is flexible. Many leading manufacturers are already integrated - ready to go right away, without any detours.

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