ARMBRUSTER ENGINEERING

Consulting | Systems | Products

SMART WORK ASSISTANT

Additions for tightening, testing and measuring technologies.

Work the smart way.

ELAM START – YOUR SMART AND EASY ENTRY INTO INDUSTRY 4.0

With the ELAM START basic equipment we offer a compact and quick start for the installation of assistance at the workplace. In contrast to composite systems, you can operate ELAM START independently and expand up to three stations as a small assembly line. In addition, you have the possibility to expand your ELAM START package to a composite system at any time.

Whether you choose an ELAM START package or a composite system – with our ELAM software you will achieve an economic and free from error production, as well as a step-by-step controlled assembly that ensures the quality of your production.

In our SWA brochure you could already get to know the ELAM START basic equipment and a number of other connectable hardware components. In this brochure we now present further hardware components of the tightening, testing and measuring technology, which you can easily connect to your ELAM system and select them according to production requirements.

If you would like to connect further hardware components you can contact us and we will show you connection possibilities for further components.

PACKED CONVENIENTLY - THE ELAM START BASIC EQUIPMEMT!

1. SWA (Smart Work Assistant)

Whether you use the SWA in picking, logistics or in assembly – the special design of our revolutionary PC assures you a safe and cost-efficient production.

2. 2D hand scanner

The hand scanner monitors the correct part removal and enables a correct variant call.

3. Touch panel

The touch panel guarantees an efficient process flow due to optimal graphic support and simple operability.

SERVICE

If required, our experienced service team will support you with the Start-up of your system and the connection of your hardware – for a smooth entry into industry 4.0.

ELAM START SALES MODULES

TIGHTENING AND RIVETING DEVICES

OPTIONS / DESCRIPTION

OPTION 13: HS-T TOOLS (STAMA No. 3840, 3841, 3842)

Conncetion to the ELAM system

- 18 V battery-powered devices with torque and rotation angle sensor
- Configuration of the HS-T tools via software
- Status display of results with OLED-display
- Connection and communication via WLAN
- Integrated USB interface

NutBee (STAMA No. 3840)	**RivBee** (STAMA No. 3841)	**TorqBee** (STAMA No. 3842)
• Programmable and displacement-controlled blind rivet nut setting tool • OLED-display • Programmable parameters (current, distance, speed, time) • Process documentation and quality control with force-displacement curve • Quick-change system	• Blind rivet tool • Display of the riveting results • Programmable parameters (current, distance, speed, time) • Multi-stage status LED • Blind rivet counter	• Pistol screwdriver (0.8 – 14.0 Nm) and angle screwdriver (5.0 – 55.0 Nm) • Disengagement clutch • Programmable parameters (current, rotation angle, rotation speed, time) • Display of tightening results • OLED-display
		

OPTIONS / DESCRIPTION

OPTION 14: KOLVER-SCREWDRIVER (STAMA No. 3860, 3861, 3865)

Screwdriving system with connection to the ELAM system

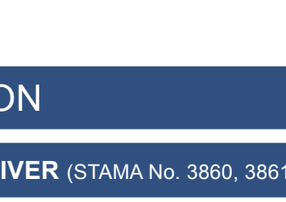
- With lever start
- Input and output signals
- Extension possibilities
- Time Monitoring
- Two-stage acceleration

Kolver-screwdriver (STAMA No. 3860)

- Electric rod screwdriver
- Low weight
- „Softstart“ function
- Slow start
- Adjustable rotation speed
- Hard or soft screw connection

Control unit (STAMA No. 3861)

- EDU 2AE
- Tightening torque, fastening and unscrewing speed
- Large 135 x 40 mm blue display: easy to read from any angle
- 15 input and 11 output connectors
- Easy operation through user friendly menu
- Acceleration ramp
- Min and Max fastening time



Control unit (STAMA No. 3865)

EDU 2AE / TOP additionally includes:

- Password protect settings
- Time and date
- Program selection via barcode
- Torque value in Nm on the display through dedicated calibration menu
- Up to 8 different programms selectable via digital I/Os

OPTION 15: SWITCH (STAMA No. 3635)

Easy upgrade of existing networks

- Switch with Ethernet connection
- For connecting multiple devices to the network
- 8 ports

OPTION 16: WLAN-CONNECTION (STAMA No. 3578)

- WLAN-Connection via Ethernet
- tp-link Wireless Nano Router
- WLAN-speed up to 300 Mbps
- Power adapter
- Power supply via USB or power supply unit

OPTIONS / DESCRIPTION

OPTION 17: HANDLING-ARM (STAMA No. 3863, 3864)

For simple and easy handling of screw spindles

- Up to 5 kg screwdriver weight
- Simple connection to sensor box via prefabricated cables and connectors
- Including visualization of screw connections with process display

Mechanical Handling-Arm (STAMA No. 3863)

- Mechanical Handling-Arm without sensor equipment
- For tightening processes
- Without sensor box

Mechanical Handling-Arm with sensor equipment (STAMA No. 3864)

- Mechanical Handling-Arm with sensor equipment for position control
- Position measurement including teach-in function
- Sensor box (STAMA No. 3850) included
- Simple connection to sensor box via prefabricated cables and connectors
- Including visualization of screw connections with process display

OPTION 18: SENSOR BOX (STAMA No. 3850)

Screw position control, angle determination, distance determination, determination of measured values

- Rugged case with connection via TCP / IP
- Monitoring of up to 6 sensors
- 4 x analogue signal input (0 – 10 V)
- 2 x turn-encoder input (SSI) Singleturn / Multiturn

OPTIONS / DESCRIPTION

OPTION 19: SPECIAL ORDERS

Custom-designed assembly fixtures according to your requirements:

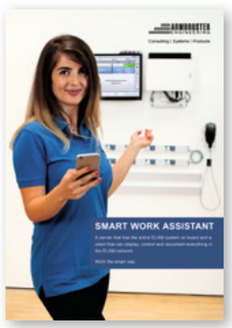
- With sensor monitoring
- With LED display
- With necessary actuators
- Perfectly matched to your product

EXAMPLE WORKPLACE

Equipped with:

- Smart Work Assistant
- Kolver-tightening system
- Handling-Arm
- Pick to Light-system
- Terminal box
- Sensor box
- Bitcube
- Assembly fixture

ALWAYS ONE STEP AHEAD WITH HARDWARE FROM ARMBRUSTER ENGINEERING!



You want to learn more about it? Ask for your SWA brochure here:

Email: info@armbruster.de
Phone: +49 (0)421 20 24 8-0

OPTIONS / DESCRIPTION

OPTION 20: CALIPER (STAMA No. 3871)

- Very robust construction for large measuring ranges
- ABSOLUTE system enables highly accurate measurement results
- High-quality surfaces for smooth sliding movements
- Measuring range 0 – 450 mm
- Can be connected via data transmitter (STAMA No. 3873) and data receiver (STAMA No. 3875)

OPTION 21: DEPTH CALIPER (STAMA No. 3872)

- Hardened and lapped measuring surfaces
- Extraordinary battery life
- Measuring range: 0 – 150 mm
- Can be connected via data transmitter (STAMA No. 3873) and data receiver (STAMA No. 3875)

OPTION 22: MEASURING PROBES (STAMA No. 3870)

- Measuring distance max. 42 mm
- Connection via sensor box
- Application fields: inspection station, incoming goods inspection, dimensional control, statistical process control, quality assurance

OPTION 23: DIAL GAUGE (STAMA No. 3876)

- From Mitutoyo or Mahr
- Can be connected via corresponding data transmitter (STAMA No. 3873 / 3874) and data receiver (STAMA No. 3875)
- USB interface, Digimatic-interface
- Measuring range: 12.5 mm (Mahr) or 12.7 mm (Mitutoyo)

OPTION 24: MANUAL PRESS

- Connection of presses
- Mechanical or penumatic
- Force control
- Displacement control

ORDER YOUR SMART WORK ASSISTANT AND YOUR ELAM START PACKAGE DIRECTLY FROM US:

WWW.ARMBRUSTER.DE

Take advantage of the benefits of a personal login and register at our homepage for our newsletter.

Contact

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