

The software solution that makes your screwdriving technology safe!



ec-hmi Control

Controls and visualizes the screwing process directly at the workstation. Variants, components, and screwing sequences are clearly displayed, guiding the worker safely through each screwing operation.



ec-hmi Database

Stores all relevant screw data centrally or decentrally. Torque, angle, screw curves, job data and component reference remain traceably documented and available at any time.



ec-hmi Quality

Makes stored screw data analyzable. Individual filters, curve analyses, CP/CPK analyses and trend detection help to ensure quality and identify problems early.

Key functions

Documentation

Order data, screwing results, torque/angle values, OK/NOK, process status as well as scan and test results.

Variant control

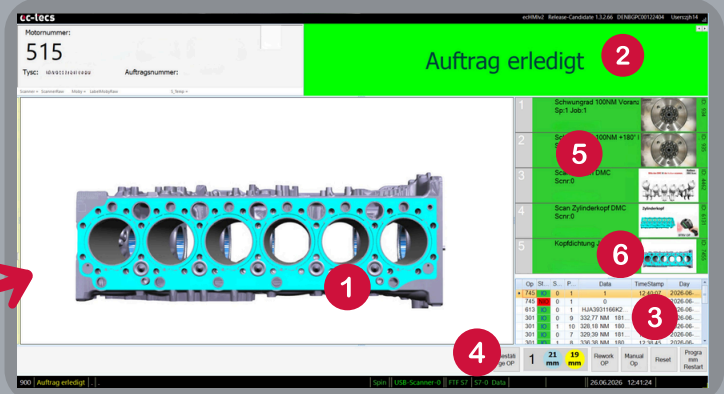
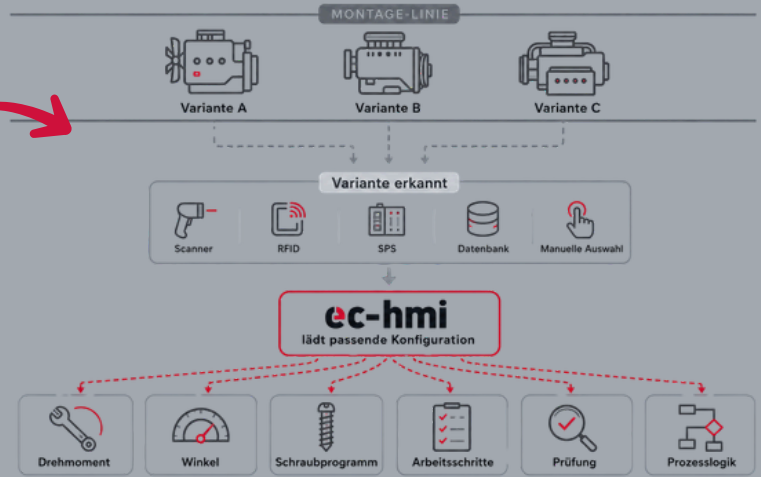
Programs, checks, process logics and releases depend on order, component, scan, RFID, PLC signal or manual selection.

Quality evaluation

Trend and cluster analyses, curve evaluation, quality gates, rework and complete traceability.

Worker guidance

Order, variant and component information; Step-by-step guidance; visualization of work steps, screw positions and status.



- 1 Visualization of work steps
- 2 Screw position and process status
- 3 Display of screw data
- 4 Process buttons and rights management
- 5 Completed work steps
- 6 Current work step

Advantages at a glance

- Intuitive operation and **clear operator guidance**
- Variant-dependent control of assembly and screwing processes
- **Transparent documentation** of all relevant process data
- **Flexible integration** into existing plant and IT structures
- Support for various tools, scanners, controllers and databases
- Individual customization of views, workflows and process logics
- Data basis for quality assurance, maintenance and **process optimization**
- Expandable via web interface, export functions and add-on services.

ec-tecs provides you with everything from a single source:

Hardware, software, assembly and repair - contact us now for an initial workplace analysis.