

✓	Included in the functional range	✘	Adjustments necessary
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ELAM START *ELAM composite system*



No.	Function	Module	Standard	Standard
5150	Import/Export			
5170	Display of job flow in sequencer	Sequencer		✓
5170	Status of order backlog displayed via sequencer	Sequencer		✓
5170	Editing the order sequence	Sequencer		✓
5170	Lock / unlock order	Sequencer		✓
5175	Manual input of orders at the sequencer (emergency strategy)	Sequencer		✓
5152	Display order preview	Assistant		✓
5153	Display fault Import via reports	Framework		✓
4100	Marriage			
4101	Specification of variant without order and serial number	Assistant	✓	✓ ✘
4102	'Marriage': manual selection/ entry Assembly order and variant via start formular	Assistant	✓	✓ ✘
4103	'Marriage': Scan assembly order and variant in specified sequence (JIS-marriage)	Assistant	✓	✓ ✘
4104	Order entry by scanning a DataMatrix code that contains both	Assistant	✓	✓ ✘



No.	Function	Module	Standard	Standard
4105	Clarity of the assembly order: - Order number - Serial number - Order and serial number - Separate counter - Time stamps	Line plug in or marriage module	✓	✓ ✘
4106	Marriage of assembly order with product via scanner	Manager	✓	✓
4111	Using visualisation via variant	Administration	✓	✓
4121	Sorting according to variant	Administration	✓	✓
5124	Sorting according to component	Administration	✓	✓
4200	Identification of workers			
4201	Identification of workers by PIN entry	Assistant	✓	✓ ✘
4202	Identification of workers through scanning	Scanner Controller	✓	✓ ✘
4203	Identification of workers via Euchner EKS	EKS Controller		✓ ✘
4203	Identification of workers via SWA Key	SWA-Controller	✓	✓ ✘
5204	Identification of workers by entry in the start formular	Assistant	✓	✓ ✘
4400	Guiding workers			
4401	Display of the worker's visualization with TAFs: - Information TAF - Manual TAF - Automatic TAF - Question TAF	Assistant	✓	✓



No.	Function	Module	Standard	Standard
4402	Display of additional information in picture/video and text (format: *.jpg, *.png, *.mp4)	Assistant	✓	✓ ✘
4403	Navigating through visualisation	Assistant	✓	✓
4410	Advancing to next instruction only if result is IO	Assistant	✓	✓
4411	Manual release of automatic TAFs	Assistant	✓	✓
4412	Manual entry of measured values	Assistant	✓	✓ ✘
4413	Type-dependent setpoint specification	Assistant	✓	✓ ✘
4414	Repetition of TAF	Assistant	✓	✓
4415	Assigning comments to a partial work sequence (TAF)	Assistant	✓	✓
5420	Manual IO with user query	?	✓	✓ ✘
5450	Group-dependent work instructions	?	✓	✓ ✘
4460	Display via monitor	Assistant	✓	✓
5461	Display of TAF via tablet	Assistant		✓
5462	Display of videos via second output device, e.g. beamer with a second layout	Assistant		✓ ✘
5465	Display of TAF on HDT (picking)	Assistant Mobile		✓
 4300	Pick to Light			
4301	Display of the component removal place (KBS)	KBS Controller	✓	✓
5306	Display of the component removal place (Shutter)	Web I/O- Controller		✓ ✘

No.	Function	Module	Standard	Standard
5307	Use of additional modules such as SpeedyPick Air (Mobile Pick to Light) or SpeedyPick	Picking-Controller		✓ ✘
5308	Replacement of lamps via ELAM Assistant	Controller		✓
4600	Scanning			
4601	Acquisition of components through scanning	Scanner-Controller	✓	✓ ✘
4602	Testing of components towards sorting	Administration (Sorting)	✓	✓ ✘
4605	Component check if specification is given by ERP	Manager		✓ ✘
5608	Unique product identification via scanner (scanning in the following stations)	Scanner Controller	✓	✓
4500	Linkage of screwdriver			
4501	Data acquisition of connected screwdrivers (OpenProtocol)	OpenProtocol-Controller	✓	✓
4505	Testing if minimum number of screwdriving operations is fulfilled (evaluation)	Screw control or assessment config	✓	✓
4510	Automatic confirmation of TAFs via screwdriver IO-signal	Manager	✓	✓
4520	Locking and releasing of tools	Manager config or signals via visu.	✓	✓
5530	Process display (visualization of the screwing position)	Assistant/ Process display		✓ ✘



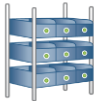


No.	Function	Module	Standard	Standard
5550	Connection of further devices			
5550	Data acquisition of connected tools and measuring equipment (see standard converter list)	Controller		✓ ✘
5560	Transfer of process data (scans, states) from the PLC (use of standard data block)	S7 Controller		✓ ✘
4570	Unique product identification via standard identification systems	Ident-system		✓ ✘
5561	Specification of order data to the PLC (use of standard data block)	S7 Controller		✓ ✘
5590	Checking if minimum number of measured values is fulfilled (evaluation)	Manager	✓	✓
4700	Printing			
4701	Printing of standard lables (ZPL- Zebra Programming Language)	Zebra-Controller	✓	✓
5702	Printing of individual labels	Zebra-Tool		✓ ✘
5705	Printing of log layouts	ELAM-Printer or E2-HTML-Printer		✓ ✘
5800	Check			
5801	Display of product data at the test station	Assistant		✓
5803	Manual release via EKS in case of NIO	Test station, Euchner		✓ ✘
5805	Entering comments for manual release	Test station		✓



No.	Function	Module	Standard	Standard
5810	Photo documentation of the assembly order	Assistant		✓ ✘
5811	Automatic recognition of barcodes at the test station for assembly orders in paper format	Assistant		✓ ✘
5820	Display and execution of EOL checklists	Assistant		✓ ✘
5900	Special sequences			
5920	Linkage of pre-assembly with assignment of pre-assembly data to the product	Pre-assembly		✓
6000	Webserver			
6010	Storage of product-related assembly data in the database (product life cycle file)	Interpreter	✓	✓
6020	Assembly line related evaluations	Webserver		✓
6021	Evaluation of the number of built products according to variant, status and time	Webserver	✓	✓
6022	Display of the product life cycle file (PLA) in the web browser	Webserver	✓	✓
6023	Detailed view of a PLA	Webserver	✓	✓
6024	Product-related component documentation (in the PLA)	Webserver	✓	✓
6025	Component-related evaluation	Webserver		✓
6027	Graphical display of process values	Webserver	✓	✓
6030	Search possibilities in case of complaint	Webserver	✓	✓
6040	Export to MS-Excel	Webserver	✓	✓
6028	Direct runner evaluation according to time and adjustable criteria	Webserver	✓	✓





No.	Function	Module	Standard	Standard
7100	Picking			
7101	Optimized route	Framework	✓	✓
7102	Different strategies of work-off of the list of items	Framework	✓	✓
7103	Adaptations of ERP lists for picking processes possible	Framework	✓	✓
7104	Various printout layouts for accompanying documents	Printer	✓	✓
7105	Evaluations for pick rates	Webserver	✓	✓