



**elutiontwo**

# elution two assembly

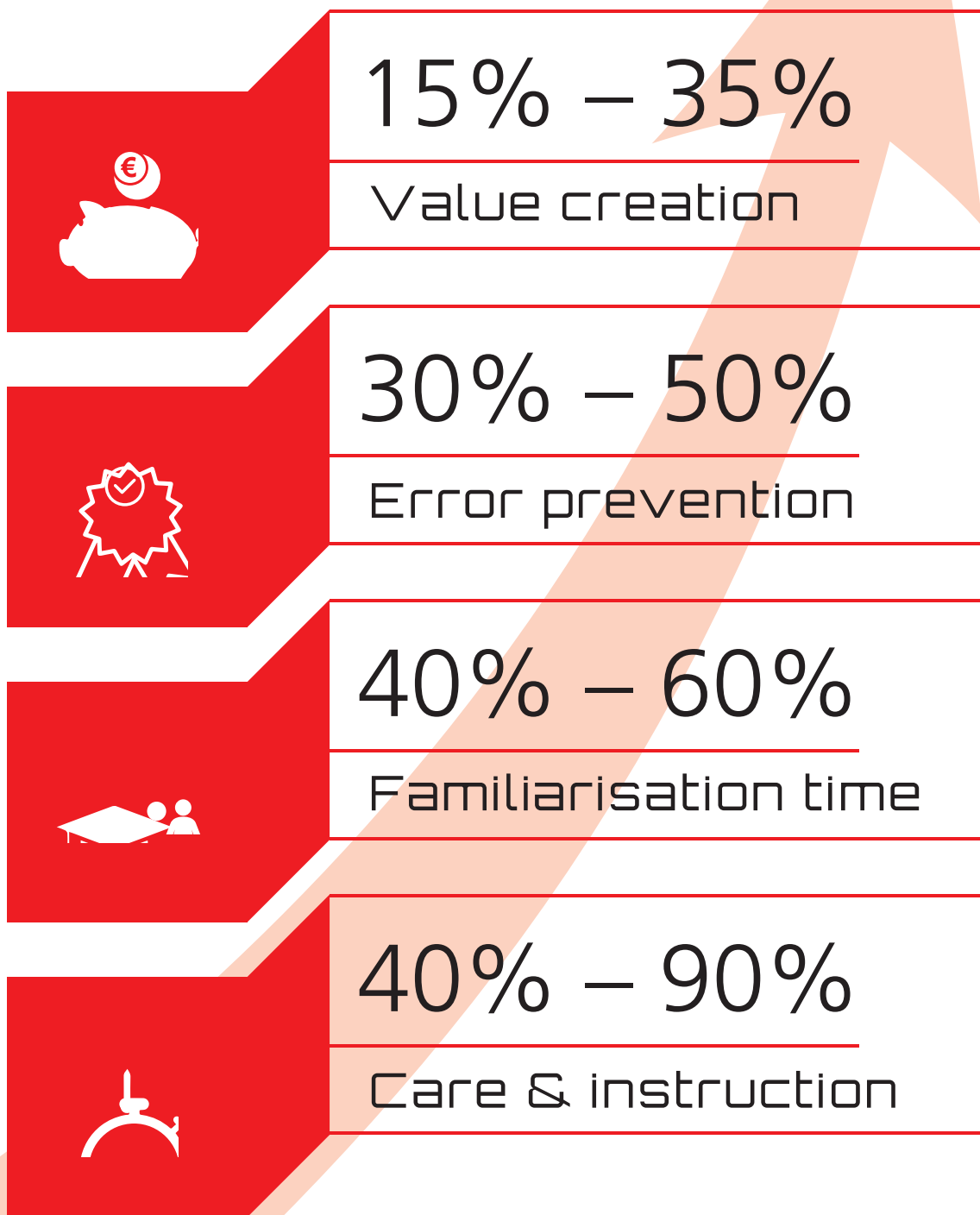


The digital assembly system for your assembly line

# Advantages



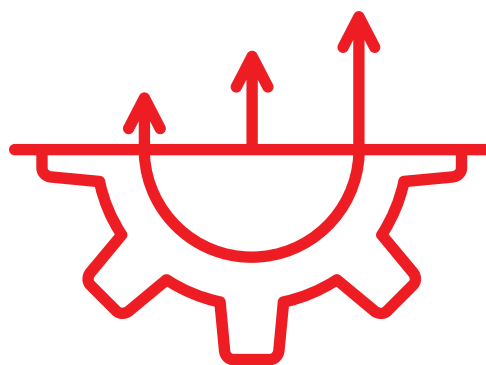
**elution**two



# elution two assembly

## Challenge

The opening up of new markets, difficulties in component procurement, increase in the complexity of products, different requirements in the target markets and much more. There are many reasons why product variance is continuing to increase. Due to the ever-increasing demands and regulations on documentation, safety tests and quality requirements, it is particularly challenging to find suitable skilled workers on the labour market. This means errors can creep in quickly. The requirements for product manufacturing are a major challenge for many companies.



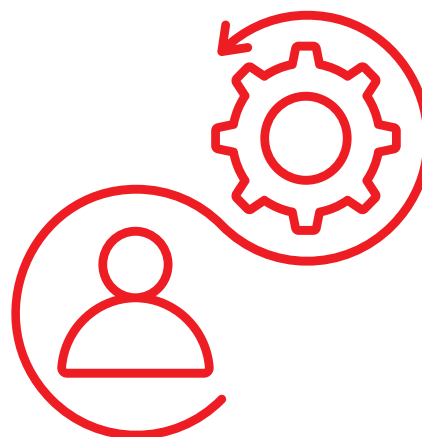
## Solution

These challenges can be met with the digital assistance system elution two assembly. Thanks to precisely matching digital work instructions provided at the right time and only with the relevant information, even unskilled employees are quickly in a position to produce the desired quality. At the same time, the system checks and documents the process, so that time-consuming documentation duties are carried out in the background. The connection to ERP systems also reduces the effort required to create and maintain work schedules many times over, since variant management reduces the large number of routings to a manageable size. Changes to the routings are immediately reflected on the shop floor and are always up-to-date.



## Benefits

Showing the right work step at the right time, reducing the time needed to search in analogue routings, consult colleagues and team leaders, and the reduction in time-consuming manual process documentation immediately lead to an increase in productivity. Due to the qualification-dependent digital work instructions, even unskilled employees avoid errors. And if an error does happen, it is detected immediately through integrated inspection processes well before the product arrives at the customer's premises. In addition, new employees are quickly trained in the process and the capacity tie-up of experienced employees is reduced enormously. Fault-free production is possible even with high employee fluctuation or low qualifications.



# Functions

## flow editor

Using drag & drop, you can create your digital work instructions more easily than ever before. Different functions are easily implemented through different modules. This means that you always have your process flow in view. Creating routings has never been as easy.



## Batch Production

The production of order-related batch sizes is no problem, elution two assembly counts the runs for you, supports you during batch changes, and ensures that the standard process is maintained even in larger batches.



## Parallel Flow

Not all applications can always be handled by the sequential processing of instructions. With the Parallel Flow feature, you can carry out several functions simultaneously at runtime. For example, all the load carriers you require can be shown simultaneously via pick-by-light in order to reduce picking times.





# Functions

## Qualification Level

You have new employees who want to receive detailed information but don't want to slow down your experienced colleagues? You can use our qualification matrix to define which employee is shown which level of detail. And if important information is needed, the experienced employee can view it immediately. Through the definable entry barriers, you ensure that only qualified employees with the authorisation can carry out an order. In this way, nothing stands in the way of capacity shifting in production.



## Failure Management

It is not unusual for errors to happen in assembly. But the appropriate conclusions can only be drawn for improvements if these are systematically recorded and analysed. In elution two assembly, you create your own error catalogues so that errors can be systematically recorded in the process. If an error occurs, the employee can categorise it directly in the process. In the evaluation, you can see which errors were made where.



## Stop & Go

You have to interrupt the current assembly process because colleagues need help, an employee has to fetch new consumables, or the shift has come to an end? With the Stop & Go feature you can pause the flow at any time and store relevant reasons for later evaluations. If the interruption lasts longer, e.g. because a special part is not in stock, you can continue weeks later at the same point using a unique identification.



# Interfaces

## I/O interface



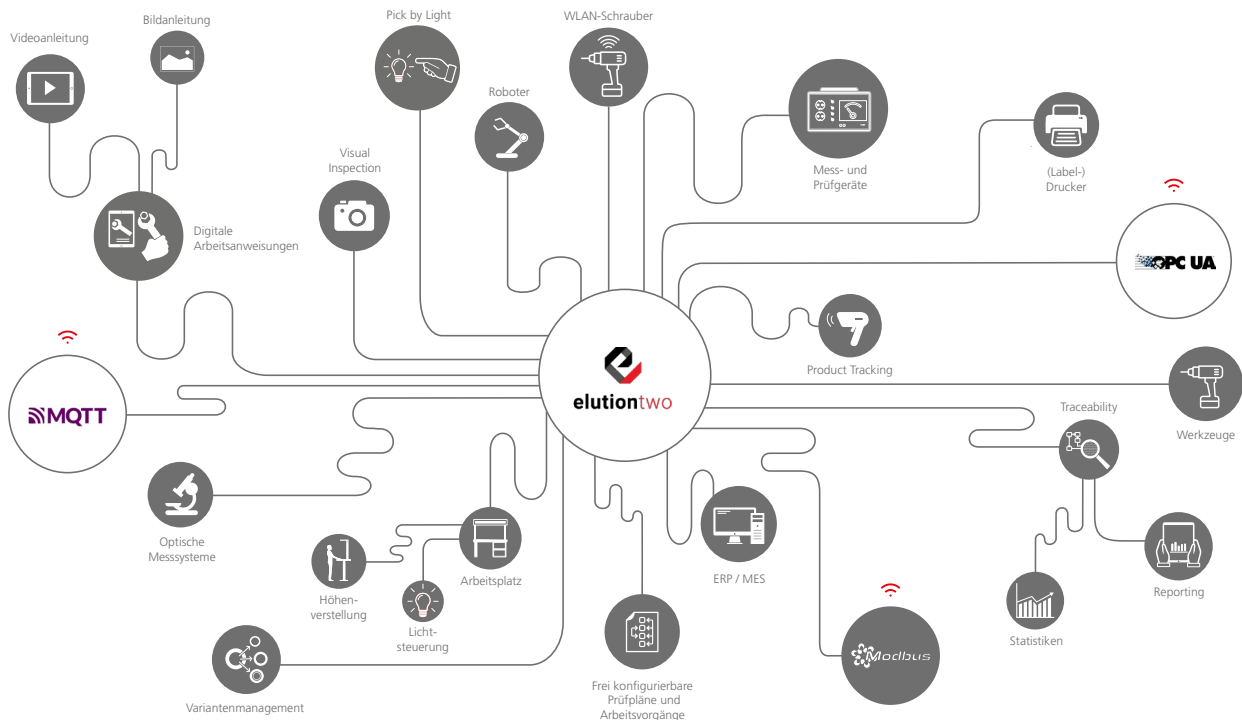
The I/O interface makes it possible to independently integrate digital inputs and outputs into the process. These can be sensors and actuators that monitor and control your process or supply it with additional information. For example, environmental conditions such as temperature or humidity could be recorded.

## Vision Interface



The Vision Interface enables you to automatically inspect components. In this way, faulty wiring or assembly of components can be detected using camera technology and the passing on of an incorrectly assembled product can be avoided.

## MQTT



The MQTT interface is an open message protocol which has become the standard protocol for IOT or machine-to-machine communication between devices and applications. In the future, MQTT-capable devices will be able to communicate directly with the elution two.

Communication with other corporate IT systems is almost unthinkable. Whether you need to query order data from the ERP system, confirm material consumption or transfer test parameters to QM systems. The OPC UA Client is a purely configurable data module that communicates according to the recognised Industry 4.0 standard OPC UA.

# Advantages / licence models

## Platform-independent, adaptive, flexible

elution two assembly offers you new possibilities for operation in your production. No matter whether you have already equipped your workstations with tablets or PC. The platform is not important. The display automatically adapts to any screen size. This also makes it possible to switch between end devices without restrictions and ad hoc.

## Area of application

elution two assembly is specially designed for use in the area of manual activities. Whether in goods receiving, order picking, assembly or shipping, elution two assembly supports your employees in the efficient and error-free execution of their tasks. elution two assembly thus expands the ELABO software product family. Together with elution, which was specially developed for manual as well as (partially) automated testing and inspection processes, we offer you the optimum package for optimising your product manufacturing processes or production.

## Licences

The licence model is as simple as the operation of the software itself. You decide which functions you need and your licence is made up of these. You buy an unlimited licence per workstation, with no further costs.

Licence / feature	Basic licence	Optional
elution assembly	x	
interactive window		x
flow runner	x	
flow editor		x
analysis		x
error handling		x
batch production		x
qualification matrix		x
stop & go	x	
variables	x	
parallel flow		x
exchange data		x
I/O interface		x
OPC UA Client	x	
Vision Interface		x



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