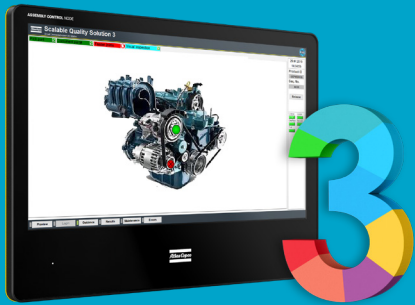
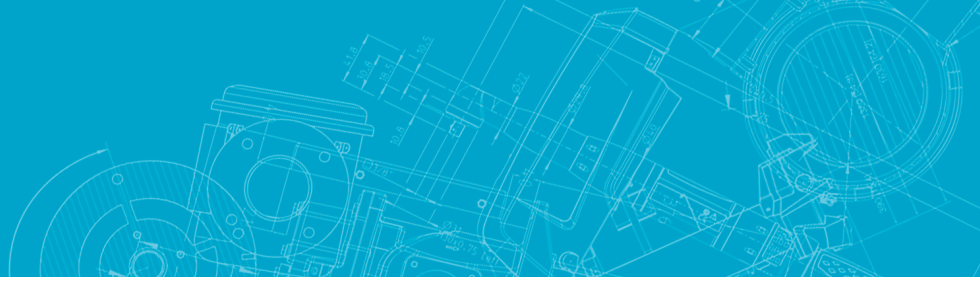


# Case study

Get a full payback even before the project is fully implemented.



## Challenge

Our customer, a car company, needed a new solution to improve their engine dress up assembly. The existing PLC based error proofing solution at one of the dress up lines was limited and could only be expanded to the other lines with a large investment

Our customer lacked sequence and part control as well as part verification subject to product variants. Further requirements include managing NOK results to guide operators in rework. The PLC based solution in place could not fulfil these requirements.

## Solution

To understand the existing production process and renewal needs, we worked on site together with our customer. Our smart connected Atlas Copco solution consists of a clean and fully integrated software platform including

- advanced assembly reporting,
- centralised configuration of all assembly stations,
- full error proofing concept,
- product identification and tracking of all relevant results as well as
- integration with existing MES, PLCs and measurement devices.

ANNUAL SAVINGS  
**€ 1,000,000**

## Impact

Due to the newly installed Atlas Copco error proofing solution, the NOK rate in the applied assembly areas is now five times lower compared to other areas using different solutions. As such, no rework stations are needed at the end of the line anymore.

Only one single backup rework station is still implemented for any extreme case where an in-line repair is impossible.

Operators' training time is reduced by nearly 90% (from 15 to 2 days) and no additional training in case of operators' station rotation is needed. Today, the flex plate assembly is completely automated without the need for specific operators identifying and controlling the assembly in case of specific engine variants.



**REWORK COST SAVINGS:**  
471,000 € (per year)



**INEFFICIENCY\* COST SAVINGS:**  
619,000 € (per year)



**REDUCTION OF OPERATORS' TRAINING COST:**  
65,000 € (per year)

\*Inefficiency here includes:  
Time loss for cycle time, problem identification and introduction of new product/variants, time loss for needless activities such as reading printed instructions, failure in part selection etc., waste of energy, tools and tightening components like nuts and bolts.



Atlas Copco AB  
Global Software Solutions Business  
(publ) SE-105 23 Stockholm, Sweden  
Phone: +46 8 743 80 00 Reg. no: 556014-2720 [atlascopco.com](http://atlascopco.com)

