



MetLase Smart Bench

The Challenge

SmartBench

INSTRUCT

ASSEMBLE

INSPECT

NO FAULT FORWARD

The MetLase Smart Bench solves the challenges faced by manufacturers across multiple sectors with almost all their manual assembly processes.

Manual processes set manufacturers very specific challenges, such as:

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- A lack of real-time information and data, making process improvements very difficult
- Product quality, or at best consistency, costs money and reputation
- High levels of process change, as companies try to become more flexible, in their desire to become more resilient
- Skills availability, especially attracting new talent

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The Solution

MetLase have developed Smart Bench, a digitally-enabled assembly workstation for manual manufacturing processes. The workstation enables companies to implement Industry 4.0 technologies in a way that is customised to their specific need, covering almost all manual manufacturing processes.

Features

- Provides a range of digital support to the operator
- Ensures digital validation at every step, ensuring a fault is not allowed to escape the process
- Increases workforce flexibility by providing faster training, that won't allow an operator to make a mistake
- Enables data-driven process improvements

Data collected throughout the process is automatically analysed, to drive further data-driven process improvements.

The 'no-fault-forward' approach is designed to eliminate production defects by delivering 100% quality.



The Results

45% process time reduction

35% reducing defects and rework MetLase Smart Bench has seen quantitative business benefits achievable through the analysis of the data collected. This previously unobtainable level of detail allows manufacturers to make these process improvements.

MetLase Smart Bench can improve quality by verifying each process step during assembly, ensuring no faults are carried forward and reduces operational times by giving clear digital work instructions and operator aids.

Full process **traceability**

Full process traceability and automated data analysis identifies process improvement actions and is the foundation for machine learning opportunities

MetLase offer digitally-led and mechanical manufacturing solutions providing added value through rapid problem soving for high value manufacturers



Rapid Tooling Development



Digital Manufacturing Solutions



Customised Solutions



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