

Aerospace

Electrical Manufacturing
Engineering & Industrial Means
i-Workbench



Aerospace & Aviation



Fully deployed and operative Industrial Production System i-Workbench

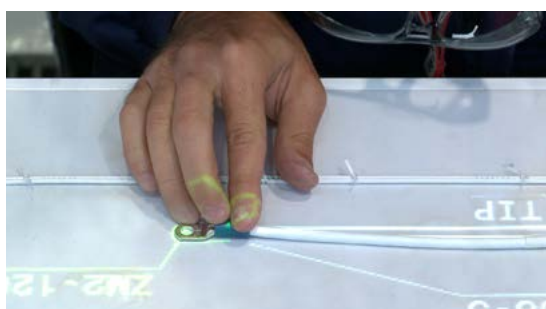
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Lean electrical harness
manufacturing system

i-Workbench simplifies, enhances and speeds up cable manufacture providing direct access to the workstation's information system through digital interactive production orders.



Industrialised
system



Overhead optical projectors

Low visual
fatigue for
operators



- ➔ Fully digitalised process and 100% industry 4.0 compliant
- ➔ Interactive equipment
 - Overhead optical projectors
 - Operator tablets
 - Barcode reader and Bidi
- ➔ Smart interactive software for full deployment in the manufacturing process:
 - Dynamic illumination
 - Projection of supporting data: standards, models, database info and diagrams/drawings
 - Quality record storage and analysis
 - Production control activity in real time
 - Dynamic software with incident display system





Highly-experienced engineers with thorough knowledge about methods, processes and tools

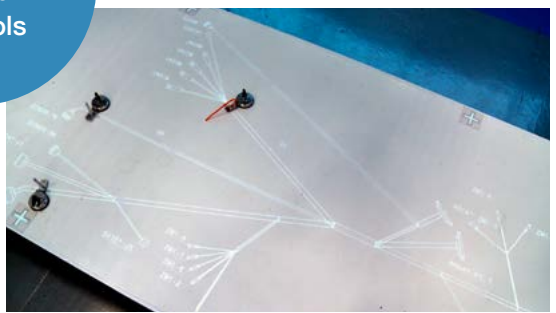
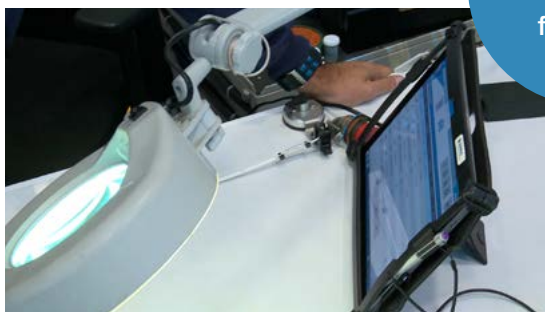
- ➔ Easy and immediate introduction of design changes to enable an extremely low time-to-market with little or no scrap material
- ➔ Designed for the operator:
 - ➔ System developed in teamwork with the shop floor operators
 - ➔ Low visual fatigue: images are reflected directly on the board from the overhead optical projectors with ultraviolet filters, avoiding radiation effects on the eyes
 - ➔ Automatic calibration through photoelectric optics and sensors
 - ➔ Progressive and interactive data display enable low training/experience requirements

Benefits

- ➔ **i-Workbench** is a smart factory industrial mean
- ➔ Extraordinary cost savings: reduced preparation and touch times; fully synchronised data set; right-first-time
- ➔ Time saving during development: easy incorporation of changes
- ➔ Robust hardware



Ruggedised board for tools



Projection of drawings on a 1:1 scale



Image format 5x1 m scalable up to 20 m



Non-interpolated actual resolution (1 mm)



Interactivity with user



i-Workbench by AERTEC Solutions

An optimum solution for efficient cable manufacturing improving cost, quality and speed





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