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MIDDLE EAST

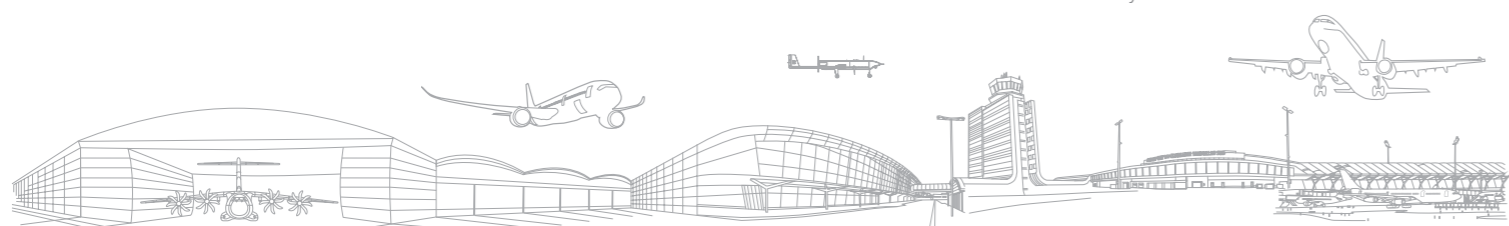
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Factory 4.0

→ i-Workbench
Fully deployed and operative
Industrial Production System



Let's talk aeronautics



i-Workbench

Fully deployed and operative Industrial Production System

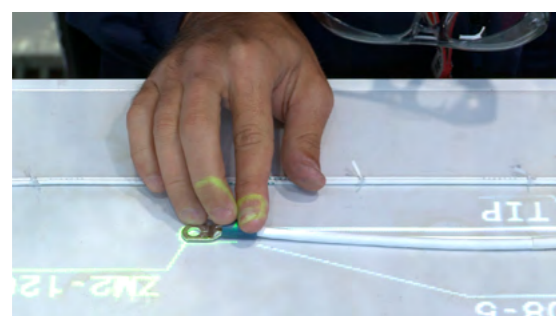
Overhead optical projectors

Low visual fatigue for operators



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.



- ➔ 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

Industrialised system

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

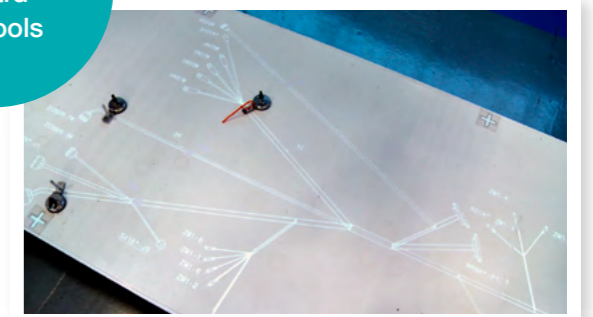
- ➔ Easy and immediate introduction of design changes to enable an extremely low time-to-market with little or no scrap material
- ➔ Designed for the operator:
 - ↳ System developed in teamwork with the shop floor operators
 - ↳ Low visual fatigue: images are reflected directly on the board from the 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
 integrated by AERTEC
 An optimum solution for efficient cable manufacturing improving cost, quality and speed