

THE SEMPRE GROUP



INDUSTRIAL
METROLOGY



MEASURING
INSTRUMENTS



ENGINEERING
SERVICES



LEAN
ENTERPRISE



INDEPENDENTLY PROVIDING
TRUSTED PRODUCTS, SERVICES
AND SOLUTIONS

OUR VISION & MISSION

CREATING VALUE

Independently providing trusted products, services and solutions



INTEGRITY AND TRUST



PASSION TO OUTPERFORM



POSITIVITY AND ENJOYMENT



LISTEN, CARE AND RESPECT



EXCELLENT CUSTOMER SERVICE



GROW TOGETHER AS PARTNERS



ACCURACY, EXPERTISE AND RELIABILITY



Human Interface Mate

Helping Operators Excel



ARKITE





“The Human Interface Mate transforms workstations into a digital and interactive environment.

It is the ultimate Operator Guidance technology.”

Human Interface Mate

Guidance by AR

Realtime and contactless guidance by projections



Validation by **Smart Sensor**

The smart sensor validates execution and provides feedback before an error occurs



[Play video](#)



Benefits



Quality

- Human Error Prevention
- Traceability
- Rework and Scrap Reduction
- Warranty and Replacement elimination



Data

- Logging
- Dashboarding
- Traceability

Benefits



Efficiency

- First Time Right
- Lot Size Flexibility
- Workforce Flexibility



Human Capital

- Multi Skilled Operators
- Shortened Learning Curve
- Skill Dependent Guidance
- Reassurance of Performance

Case Video

Arkite @ Volvo



For the V60 Raggard line, Volvo Cars Gent was looking for a solution to support both picking and assembly of critical components.

Operators need to place a multitude of plugs into the frame of the car. These steps are prone to human errors due to the number of placement locations, different plugs, and the number of plugs that need to be placed.

Multiple HIM units are validating the correct execution of picking and assembly tasks and ensures qualitative performance by preventing human errors. The HIM units have been integrated with the line PLC to allow a line stop if critical issues would arise.

Use link to view video:

Case Video

Arkite @ Benteler



Benteler was looking for a solution to support both assembly and picking of critical components for its multiple product variants. HIM is first of all supporting the picking process of the heat shield, the floor shield and the shackles. Next to assembling these parts the operator is supported with a virtual checklist of the arm, the link and the protective cover in its correct position (potential damage on further stations). The HIM unit has been integrated with the Siemens S7 line PLC to allow a line stop if critical issues would arise. All process steps are logged to support Benteler having full traceability.

Use link to view video: https://www.youtube.com/watch?v=5VRExARPDRg&feature=emb_logo

Case Video

Arkite @ Atlas Copco



Atlas Copco was looking for a solution to support the operator during his complex manual assembly. A solution that eliminates wrong or missing components due to picking or assembly errors. The process contains a certain degree of freedom for the operator (higher risk for human error). The objective for Atlas Copco was reducing the amount of faulty products. HIM tackled the issues mentioned, while introducing a new methodology to onboard new employees by its easy and efficient training capabilities.

Use link to view video: <https://www.youtube.com/watch?v=aCrM0lahWuI>

Your Complete Solution Provider



Modular Control Workstation

- Ergonomic to improve efficiency and ideal working environment
- Anodised aluminum structure for attaching accessories
- Over 50 complimenting accessories
- Solid steel base
- Weight limit up to 800 kg

Floor Signage



Visual Management



Tooling Stations





TheSempregroup.com

Chloe Reynolds
01452 632 712
creynolds@thesempregroup.com



sales@TheSempregroup.com
www.TheSempregroup.com
37 Barnett Way, Barnwood, Gloucester. GL4 3RT