

FEATURES

Flexibility for future seat types and Occupant Classification Systems

Certified by seat occupancy mat manufacturers

High accuracy and repeatability

Dual loadcell design for stability and speed

BENEFITS



High-precision seat calibration to increase passenger safety



Fast and exact tests in a controlled environment



Customised to individual customer requirements

APPLICATIONS

Quality assurance of car seats

Service kit calibration

Seat calibration development

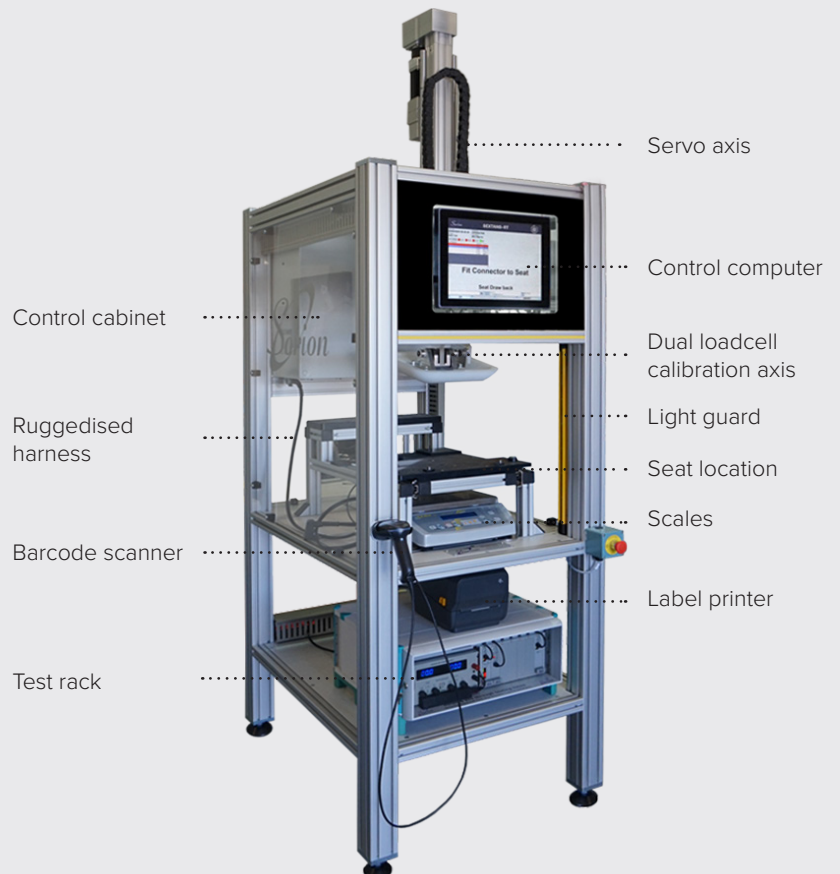
Function test and calibration of seat occupancy mats

The Sorion Mini FAM is a high quality Force Application Machine (FAM) optimised for low volume and service kit production. The system is modular in design and can be adapted to suit customer requirements.

A Force Application Machine (FAM) provides a controlled environment to perform testing and calibration on the safety relevant Occupant Classification System (OCS) components of an automotive passenger seat.

The car seat is positioned in the FAM (locating correctly X & Y) and then automatically calibrated by applying a predetermined load pressures via a Seat Butt-Form.

The communication to the mat can be via LIN or CAN.



Dimensions: W 800 x D 1000 x H 2600mm

POWERFUL AND RELIABLE TEST HARDWARE

The machine frame features aluminium extruded sections construction in silver anodised finish.

The mini FAM is equipped with standard measurement and control components ensuring safe, efficient and reliable operation with high accuracy (0-60kg ±1g resolution).

The system is fitted with a light guard to provide operator protection during the calibration process.

PROCESS

The FAM is controlled by Sextans test software running on a touch screen PC.

Sextans offers an easy to use and intuitive interface designed for the production environment. It delivers both consistency and reliability by controlling the key test parameters.

To initiate the process, the operator scans the barcode on the build and connects the ruggedised connector to the OCS mat.

The seat is then placed within the FAM and located into the correct position. Once the seat is in the correct location the FAM will carry out the calibration on the OCS mat.

A clear pass or fail indication alerts the operator of the status of each unit, based on the customer's calibration standards.

The operator is then prompted to remove the seat, disconnect the ruggedised connector from the seat and attach the printed label on the unit.

The system captures all measurement data and transfers it to the Orion traceability database for detailed analysis and reporting.

FLEXIBILITY

The mini FAM is capable of being modified to allow calibration of different seat models and communication methods.

Step-by-step test routines can be quickly and easily created in Sextans according to the exact requirements of each customer's testing procedures.

The system can also be used as an efficient service kit FAM, allowing a wide variety of seat types to be calibrated on model specific seat frames which locate into the mini FAM.

The mini FAM can be equipped with optional vision system for accurate seat identification and location.

ABOUT SORION

Founded in 1990 and with equipment installed and operated by major OEMs and Tier 1 suppliers around the globe, Sorion Electronics has an established reputation for innovation, quality and reliability.

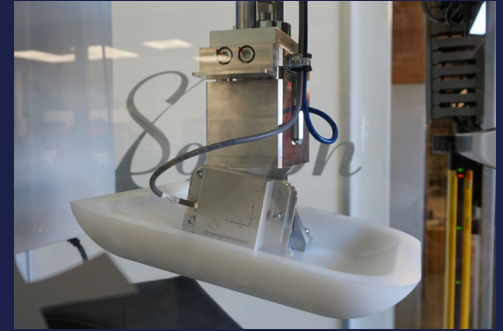
Your Partner for:

- Guided Assembly Process Control
- End of Line Test Systems
- Ruggedised Electrical Connectors & Harnesses
- Quality and Traceability Reporting
- Electronic Product Design and Development



Sorion Electronics Ltd
Magreal Industrial Estate
Freeth Street, Ladywood
Birmingham, B16 0QZ

THE SORION SOLUTION



Dual loadcells



Seat support / Location frame



Sextans running on a touchscreen PC



Orion Quality and Traceability Database

Tel: **0121 454 8966**
Fax: 0121 454 8970
Email: sales@sorion.co.uk
www.sorion.co.uk

