

## Seat Comfort Test Laboratory

- The Seat Comfort Test Lab was established in 2017 and incorporates 201 sq metres
- The Seating Lab runs a multitude of tests that includes:
  - **Seat scanning, H-point audit; seat inspection polyworks:** These tests provide essential data for seat ergonomics that contribute to optimum driver comfort
  - **Comfort testing (overall hardness, hardness distribution, trim tension, suspension test):** This is used to determine cushion/back comfort enablers by testing for overall hardness, hardness distribution, trim tension and suspension
  - **Body pressure distribution, static comfort evaluation:** This determines pressure targets on different seat areas and correlate the comfort testing results with the comfort evaluation
- The lab predicts and ensures occupant comfort for drivers and passengers, and ensures that all visibility and reach targets are met
- The average driver spends over 300 hours a year in the driver's seat
- Seats are designed to suit a wide range of occupants – the 5<sup>th</sup> percentile of females (very small) to the 95<sup>th</sup> percentile of men (large)
- Robot is used for Seat Comfort measurement and Ingress/Egress testing
- Dynamic Tenting Rig performs durability tests on leather seat materials to identify any possible tenting and abnormal wear of leather during use
- 3D scanning of seats for virtual analysis in order to predict occupant movement with regards to regulatory requirements, such as the hip point (H-point)
- The lab is environmentally controlled at 23C and 50% relative humidity in keeping with industry standards for consistent results as foam is sensitive to heat and humidity
- The lab is fully capable in Virtual Engineering of seats integrated into vehicle models

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