

Seat vibration isolation performance tests

Description

The Human Factors Research Unit performs laboratory and field tests of the vibration transmissibility of seats for vehicle and seat manufacturers.

Test procedures conform to established protocols or are tailored to customer requirements and are performed using human subjects or an anthropodynamic dummy.

Standardised seat tests

We conduct tests on suspension seats and railway passenger seats in accord with standards:

- ISO 10326-1 (general seat testing)
- ISO 10326-2 (railway driver and passenger seats)
- ISO 7096 (earthmoving machine seats)
- ISO 5007 (agricultural tractor seats)
- 78/764/EEC (agricultural tractor seats)

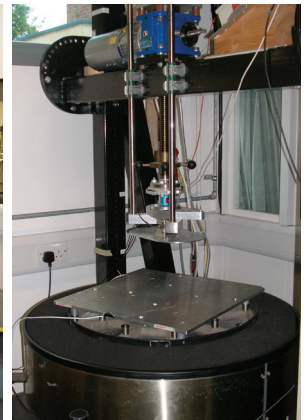
Force-deflection and dynamic stiffness tests

We have equipment capable of performing indenter measurements of seats and seat components to obtain:

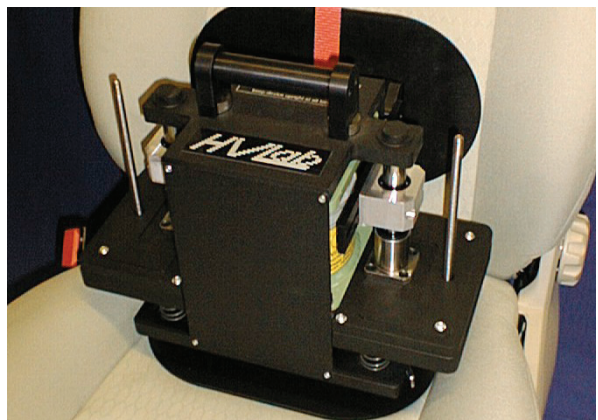
- Quasi-static force-deflection characteristics
- Dynamic stiffness characteristics



Laboratory testing of the vibration transmissibility of a suspension seat



Indenter rig for the measurement of force-deflection and dynamic stiffness



Seat testing using an anthropodynamic dummy



The Human Factors Research Unit operates a Quality Management System which complies with the requirements of ISO 9001