

## Measure & Analyze Human Response To Vibration

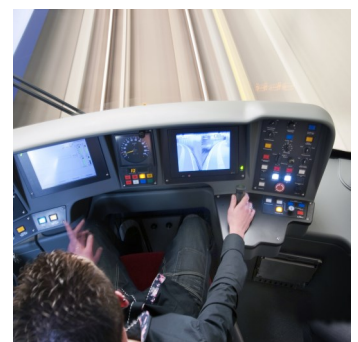
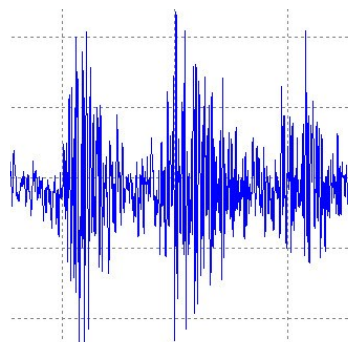
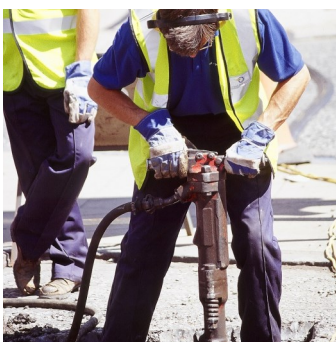
### Key Features

- ISO2631 Weighting
- ISO8041 Weighting
- Vibration Dose Values
- SEAT Testing
- Vehicle Crash Biomechanics



The way in which we respond to vibration from tools, vehicles and machines affects the quality of our lives, and ultimately our health. The detrimental effect of vibration of the human body has been the subject of considerable research.

The DATS Human Response Biodynamics package offers all of the tools necessary to measure and analyze human response data.



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## Measure & Analyze Human Response To Vibration

### Human Response To Vibration

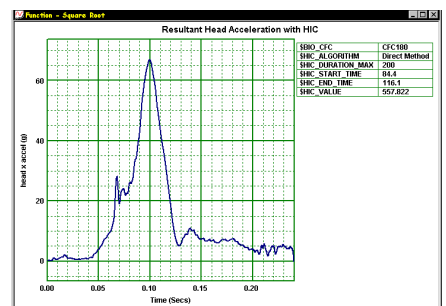
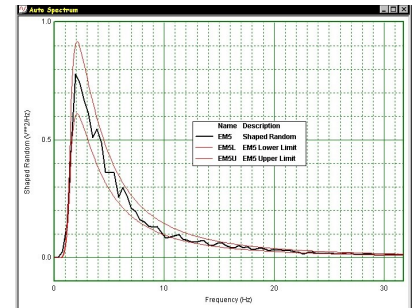
The way in which we respond to vibration from tools, vehicles and machines affects the quality of our lives, and ultimately our health. The detrimental effect of vibration of the human body has been the subject of considerable research. The understanding of this subject has now advanced the knowledge of acceptable frequency limits for vibration exposure. The weighting filters for wholebody vibration (ISO8041), affecting vibrational and ride comfort, and those for the exposure to hand-arm vibration (ISO5349) are included in the DATS Human Biodynamics package. Dose values can be calculated to ensure the acceptability of the product in an environment where the customer is ever more aware of comfort requirements, and the dangers of exposure to environmental effects.

### Vehicle Crash Analysis

Also included are functions to analyze vehicle crash data with special emphasis on data from dummies. Analyses include the Head Injury Criteria, FIR100 filtering and CFC filters. All the modules comply with the relevant SAEJ211 and NHTSA requirements.

### S.E.A.T. Analysis

The suite also includes analyses necessary for S.E.A.T. compliance testing.



### Features

- ISO2631 Whole Body (Parts 1,4 & 5)
- ISO2631 Motion Sickness
- ISO5349 Hand Arm Vibration (including Multi-Tool)
- DIN45669 Building Vibration
- ISO6954 Ship Vibration
- ISO8041 Weightings
- SEAT Vibration (ISO10326-1 & EEC78/764)
- VDV, RMQ, RMS, MSDV, MTW
- Vibration Quality Measure
- CFC60, 180, 600 & 1000 Filters
- Head Injury Criterion (HIC)
- Chest Severity Index
- Deflection of Dummy Ribs
- Thoracic Trauma Index (TTI)
- Viscus Criterion (VC)