



HAVSPRO



VIBRATION PROTECTION



Manage the risk of vibration exposure
with the HAVSPRO vibration
management system



HAVSPRO Vibration Management System

The HAVSPRO is a complete vibration management system giving you the ability to confidently reduce the risk of vibration exposure.

The system contains holsters which are fitted directly on to the vibrating tools, sensors for each operator and beacons that pick up the vibration data from the sensors and transmit it to the cloud-based database. The data is then collated into an individual data analytics platform and presented in a dashboard for easy decision-making.

Each beacon is fitted with a HAVSPRO communications pack which contains a dongle and a SIM so it doesn't need to be connected to a WiFi network to transmit valuable data.



We have used sophisticated technology to make managing the risk of vibration exposure as simple as possible for you.

Sophisticatedly simply – That's the HAVSPRO way!

HAVSPRO: How It Works

1. Each operator has their own HAVSPRO sensor which is programmed with each users details – this sensor acts as each workers personal piece of PPE.
2. Each vibrating tool is fitted with a HAVSPRO holster and pre-programmed with that devices ID details and vibration measurement data.
3. The operator clicks their sensor into the holster on the tool being used and automatically records vibration data as the tool is used – just click and go!
4. The operator removes the sensor when they've finished using that device and clicks it onto the holster of the next tool used or vehicle if being used to measure whole body vibrations (WBV).
5. Throughout the day, personal vibration data is transmitted from the sensor to a beacon then transmitted via WiFi to the HAVSPRO cloud-based reporting platform.
6. If the operator reaches their Exposure Action Value (EAV) a light on the sensor flashes **amber** to show their daily limit of exposure has been reached. A warning is also texted and emailed to pre-determined recipients to allow relevant action to be taken.
7. If the operator approaches 90% of their Exposure Limit Value (ELV) a light on the sensor flashes **red** to show they are close to the maximum daily exposure level and texts and emails are sent out.
8. At the end of the day HAVSPRO sensors can be stored ready for the next shift – no need for overnight charging.



The Value Of The HAVSPRO System



Real-time data means no margin for error

HSE supplied data of vibration measured by HSE on tools in real work (source: Vibration Magnitude), warns that 10 minutes on a pneumatic hammer (10 to 29M/S²) could give anything from 33 to 281 HSE points – this variation leaves a huge margin for error potentially leading to the risk of accidental over-exposure, with significant consequences.



Unlike any other monitoring device on the market today, the HAVSPRO gives you:

- Accurate vibration levels on the tool
- Individuals vibration level exposure over time
- Customisable reports to assist in preventing overexposure.



The HAVSPRO system identifies risks and helps design actions to reduce that risk as prescribed by the HSE to as low as reasonably practicable (ALARP).

Tailored to individual user needs

The HAVSPRO reporting suite is fully customisable to allow operators, supervisors and managers the option to see the data that is valuable to them and pertinent to their needs on a bespoke dashboard designed to provide easy-access information at a glance.



Analytic Reporting At Its Very Best

HAVSPRO provides fully auditable and tamper-proof data management which gives authorised users access to a wide variety of online reports. These can be quickly and easily used to identify and manage previously unrecognised risk as well as to identify trends and training opportunities.

Because HAVSPRO sensors measure information at source (on each tool) and personal HSE points are accrued on each activity, the data provides clear insights which can guide informed decisions and risk reduction. HAVSPRO provides clear and precise knowledge which allows risk levels to be kept as low as reasonably practicable.

Alarms

- Text and email alerts when a person experiences an EAV breach. We call this an amber warning.
- When a person reaches 90% of ELV you will receive a text and email warning.
- All warnings, amber and red, can be configured to suit your business
- All warning alerts, text and email, can be configured to go to the user and/or the manager and/or senior stakeholders.

Reporting

- Operator HAV and WBV (whole body vibration) exposure
- Operators recording highest EAV or ELV scores
- Accumulated HSE points per user
- Summaries of personal and operational EAV and ELV alarms
- Tools;
 - i) being used
 - ii) not being used
 - iii) regularly emitting high vibration values
 - iv) condition
 - v) deterioration

Planning

- Identify training needs
- Accurately plan work schedules
- Accurately understand needs for automation or job rotation
- Understand effectiveness of risk assessments
- Monitoring of tool condition to identify specific deterioration
- Understand effectiveness of consumables being used



Vibration Data Suitable For All Stakeholders



OPERATOR

- View total HSE points accumulated during the working day
- Alarms indicate when EAV reached (amber light) and 90% of ELV (red light)
- Email and text alerts sent to phone warning of EAV and ELV status
- Allows self-assessment of work patterns and methods
- Ensures self-management of HAVS risk



SUPERVISOR

- Receive email and text alerts of EAV and ELV breaches for all operators
- Option to view each operator's vibration levels and assess their tool use
- Option to monitor changes to vibration levels on each tool/vehicle highlighting potential user error, malfunctioning or damaged tool, or deteriorating consumables.
- View accumulating HSE points for all users in real time for timely intervention
- Weekly summary reports of warnings (heeded and ignored), high output tools/equipment



MANAGEMENT

- View operator's accumulated vibration levels and assess the efficiency of working methods.
- Monitor tool use and create an accurate view of high output tools
- Real time data allows for informed decisions to reduce risk (to ALARP)
- View vibrational activities on each site independently
- Weekly summary reports of all warnings and high output tools/equipment
- Details of risk-reduction can be downloaded, actions signed and stored on your OH system

Experience the HAVSPRO Gold Standard

Gold Standard

HAVSPRO provides a personal vibration measuring device which clips on and off each tool. HAVSPRO accumulates real-time data for each operator, giving highly accurate real-time alerts whilst simultaneously sending detailed information to be centrally collated for customised reports and control guidance.



Silver Standard

A combination of tool and wrist-mounted devices use an algorithm to form a picture of a users vibration exposure. These levels are usually calculated according to samples of vibration data from previously measured data (which is only accurate at the point it is being produced) or HSE and other libraries of tool vibration data. As these all vary widely, they leave a large and potentially high-risk margin for error.



Bronze Standard

Standard compliance often consists of risk assessments created through the compilation of averaged tool vibration data, or observational concerns recorded by an external auditor/consultant, but this route misses the unique degrees of variation inherent in every job and offers little more than safety guidance.





HAVSPRO



VIBRATION PROTECTION

Join us to #MakeHAVShistory

We want to help make HAVS and WBV a thing of the past.

Make vibration management a priority with accurate vibration data at your fingertips.
Be part of the solution with HAVSPRO.

For more, visit havspro.com
or call our Consultants on **01332 547 148**



About HAVSPRO and SIXIS Technology

The HAVSPRO system is designed, manufactured and distributed in the UK so quality assurance comes as standard. HAVSPRO is brought to you by SIXIS Technology, part of the UK Simpatica Group, who specialise in Industrial Internet of Things and SaaS technology solutions.