

## New vibro-safe breaker



*Professor Babitsky with a new JCB breaker*

During the recent Executive Hire Show in Coventry [JCB](#) launched a new hydraulic breaker HM25LV with a vibration protection system that reduces hand arm vibration to the ultra-low level. HM25LV uses a patented JCB technology resulted from research by Nonlinear Dynamics Group at Loughborough University and development in collaboration with JCB engineers.

The unique anti-vibration system dispenses with the traditional design, in which vibration was controlled by conventional springs and rubber bushes. Now a handle is supported by a hydraulic zero-stiffness suspension system independent of operator's manipulations and working loads. This reduces hand arm vibration along a machine axis to a record level of 1.6 m/s<sup>2</sup> and equates to a three-axis level of 3.2 m/s<sup>2</sup>. The best competing machines of the similar class currently exceed the three-axis level of 6 m/s<sup>2</sup>. Operators can now use safely the JCB breaker for a whole eight-hour shift whilst complying with the latest EU health and safety regulations preventing long-term vibration induced damage (e.g. so called white fingers).

1. Malkin A.A., Sokolov I., Babitsky V., Percussion power tool apparatus with shock absorbing piston arrangement. UK Patent GB2421466, 2006.
2. Sokolov I.J., Babitsky V.I., Halliwell N.A. Hand-Held Percussion Machines with Low Emission of Hazardous Vibration. Journal of Sound and Vibration, 306 (1-2) 2007.

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**JCB HM25LV HANDHELD BREAKER**

**NEW**

## The lowest vibration breaker you can get your hands on



- New JCB patented Ultra low vibration system reduces Hand Arm Vibration by 60% to 1.5m/s<sup>2</sup>
- The HM25LV has 50mm lower handles making it more compact and easier to use and transport
- New power coil gives increased blow energy which hits harder giving greater output
- Replaceable rubber buffers protect the handles providing extended service life
- Immediate response trigger gives the operator easier control and increased comfort



© 2014 JCB Hand Held Breaker range. HM25LV Breaker weight - 25.8kg (57.1lbs), hydraulic flow - 28 lpm (5.2gpm), max fuel pipe - 25mm (1 1/2")