

# Sound and vibration of hand-held power tools



## Types of tests

- determination of the sound power level and the rated vibration acceleration (hand-arm vibration), e.g. according to the standard specification EN 60745
- operator-specified sound and vibration measurement, e.g. under typical specified load

## Purpose of tests

- determination of specified sound and vibration values for the instruction manual
- development-accompanying measurements
- statement about the possible duration of work until reaching a trigger and exposure limit value (EU Directive 2002/44/EC, 2003/10/EC, 2000/14/EC, 2006/42/EC)

## Realization of vibration measurements

- determination of the rated vibration acceleration according to the standard specification EN ISO 5349
- measurement at two handles simultaneously in all three spacial dimensions
- permanent verification of compliance with statistical specific values



vibration measurement of a percussion drill in loading device

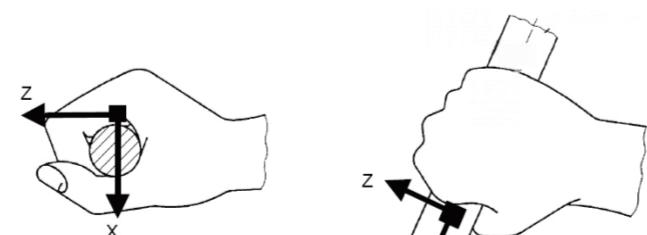
## Realization of sound measurements

- determination of the sound power level in the reverberation room (EN ISO 3741 – class 1) or outdoor (EN ISO 3744 – class 2)
- measuring of all microphone positions simultaneously with a multi-channel measurement system

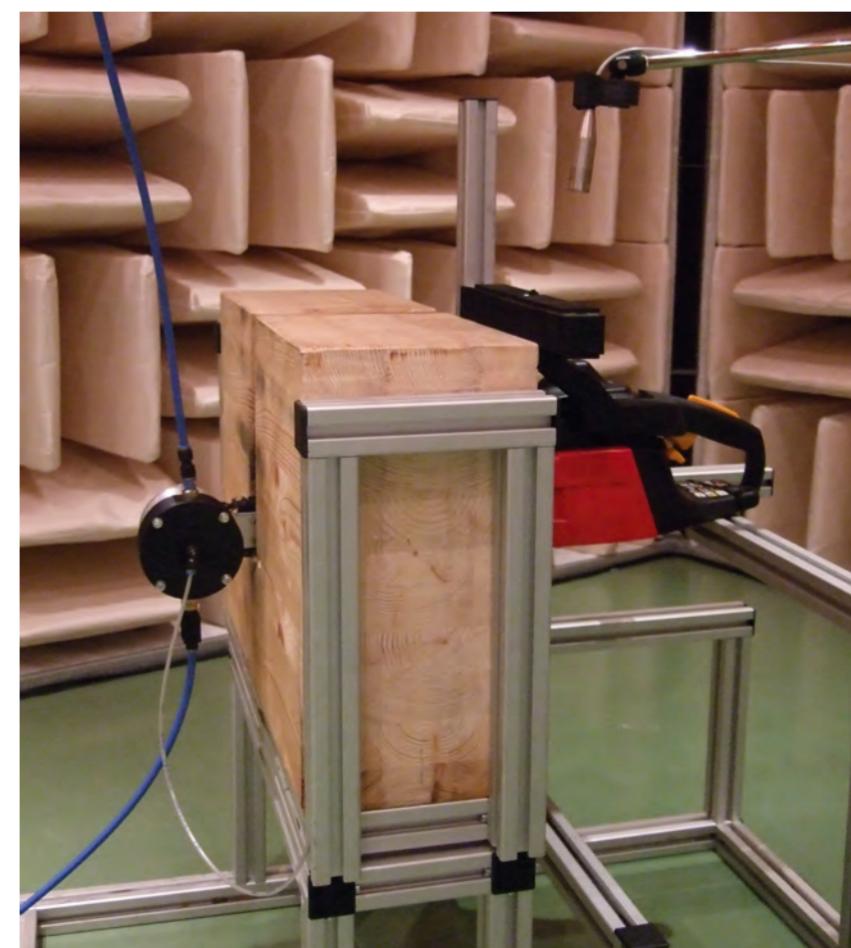


1 favoured measurement point  
2 alternative measurement point

measurement points at percussion drill with an additional handle (EN ISO 28927-5)



reference coordinates of all three spacial dimensions of vibration



sound measurement on a chain saw with water brake

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