

DIN EN 1032:2003-09 (E)

Mechanical vibration - Testing of mobile machinery in order to determine the vibration emission value

Contents

	Page
Foreword.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Basic standards	6
5 Description of a family of machines	6
6 Characterization of vibration	7
6.1 Direction of vibration.....	7
6.2 Location of measurement	8
6.3 Magnitude of vibration	8
6.4 Multi-axial vibration measurements.....	9
7 Instrumentation requirements.....	9
7.1 General.....	9
7.2 Mounting of transducers.....	9
7.3 Frequency weighting filter	10
7.4 Integration time	11
7.5 Sensitivity to environmental influences	11
7.6 Calibration of the measurement chain	11
7.7 Errors of measurement	11
7.8 Instrumentation other than vibration instrumentation	11
8 Testing and operating conditions of the machinery	11
8.1 General.....	11
8.2 Machine and equipment.....	12
8.3 Operating conditions and test tracks	13
8.4 Operators	13
8.5 Environmental parameters	13
9 Measurement procedure and validity	14
9.1 Measurement procedure	14
9.2 Validity of tests on artificial test tracks.....	14
10 Vibration emission value	15
10.1 Reported vibration values.....	15
10.2 Declaration of vibration emission values.....	15
10.3 Verification of vibration emission values.....	15
11 Measurement report	15
Annex A (informative) Summary of information to be given in the vibration test code.....	17
Annex B (informative) Frequency weighting curves.....	19

Annex C (informative) Possible sources of errors of measurement.....	21
Annex D (informative) Alternative method for determination of vibration emission value in seats when a machine can be fitted with different models of seats.....	22
Annex E (informative) Procedure for developing a test method for a specific category of mobile machines using artificial test track.....	23
Annex F (informative) Procedure for developing a test method for a specific category of mobile machines using natural test track	25
Annex ZA (informative) Relationship of this document with EC Directives.....	28
Bibliography	29