

# DIN EN 1032:2003-09 (E)

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

---

### Contents

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

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