

# ISO 28927-1:2009-12 (E)

## Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 1: Angle and vertical grinders

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		vi
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms, definitions and symbols .....</b>	<b>2</b>
3.1	Terms and definitions .....	2
3.2	Symbols .....	2
<b>4</b>	<b>Basic standards and vibration test codes .....</b>	<b>3</b>
<b>5</b>	<b>Description of the family of machines .....</b>	<b>3</b>
<b>6</b>	<b>Characterization of vibration .....</b>	<b>5</b>
6.1	Direction of measurement .....	5
6.2	Location of measurements .....	5
6.3	Magnitude of vibration .....	8
6.4	Combination of vibration directions .....	8
<b>7</b>	<b>Instrumentation requirements .....</b>	<b>8</b>
7.1	General .....	8
7.2	Mounting of transducers .....	8
7.3	Frequency weighting filter .....	9
7.4	Integration time .....	9
7.5	Auxiliary equipment .....	9
7.6	Calibration .....	9
<b>8</b>	<b>Testing and operating conditions of the machinery .....</b>	<b>9</b>
8.1	General .....	9
8.2	Operating conditions .....	10
8.3	Other quantities to be specified .....	10
8.4	Attached equipment, work piece and task .....	10
8.5	Operators .....	13
<b>9</b>	<b>Measurement procedure and validity .....</b>	<b>14</b>
9.1	Reported vibration values .....	14
9.2	Declaration and verification of the vibration emission value .....	14
<b>10</b>	<b>Measurement report .....</b>	<b>15</b>
<b>Annex A (informative) Model test report for vibration emission of angle and vertical grinders .....</b>		<b>16</b>
<b>Annex B (normative) Determination of uncertainty .....</b>		<b>18</b>
<b>Annex C (normative) Design of test wheel .....</b>		<b>20</b>
<b>Bibliography .....</b>		<b>26</b>