

# DIN EN ISO 28927-4:2019-04 (E)

Hand-held portable power tools - Test methods for evaluation of vibration emission - Part 4: Straight grinders (ISO 28927-4:2010 + Amd 1:2017) (includes Amendment A1:2018)

---

<b>Contents</b>	<b>Page</b>
Foreword .....	3
<b>[A1]</b> European foreword to Amendment A1 <b>[A1]</b> .....	4
<b>Annex ZA (informative) [A1] Relationship between this European Standard and the essential health and safety requirements of Directive 2006/42/EC aimed to be covered [A1]</b> .....	5
Foreword .....	6
Introduction .....	8
<b>1 Scope</b> .....	9
<b>2 Normative references</b> .....	9
<b>3 Terms, definitions and symbols</b> .....	10
<b>3.1 Terms and definitions</b> .....	10
<b>3.2 Symbols</b> .....	10
<b>4 Basic standards and vibration test codes</b> .....	11
<b>5 Description of the family of machines</b> .....	11
<b>6 Characterization of vibration</b> .....	12
<b>6.1 Direction of measurement</b> .....	12
<b>6.2 Location of measurements</b> .....	12
<b>6.3 Magnitude of vibration</b> .....	13
<b>6.4 Combination of vibration directions</b> .....	13
<b>7 Instrumentation requirements</b> .....	13
<b>7.1 General</b> .....	13
<b>7.2 Mounting of transducers</b> .....	13
<b>7.3 Frequency-weighting filter</b> .....	14
<b>7.4 Integration time</b> .....	14
<b>7.5 Auxiliary equipment</b> .....	14
<b>7.6 Calibration</b> .....	14
<b>8 Testing and operating conditions of the machinery</b> .....	14
<b>8.1 General</b> .....	14
<b>8.2 Operating conditions</b> .....	15
<b>8.3 Other quantities to be specified</b> .....	15
<b>8.4 Attached equipment, work piece and task</b> .....	15
<b>8.5 Operator</b> .....	18
<b>9 Measurement procedure and validity</b> .....	18
<b>9.1 Reported vibration values</b> .....	18
<b>9.2 Declaration and verification of the vibration emission value</b> .....	19
<b>9.3 [A1] Correction factor [A1]</b> .....	19
<b>10 Measurement report</b> .....	19
<b>Annex A (informative) Model test report for vibration emission of straight grinders</b> .....	21
<b>Annex B (normative) Determination of uncertainty</b> .....	23
<b>Annex C (normative) Design of test wheel</b> .....	25
<b>Bibliography</b> .....	31







