

BUREAU OF INDIAN STANDARDS
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भारतीय मानक मसौदा

हैंड-हेल्ड नॉन-इलेक्ट्रिक पावर टूल्स - सुरक्षा आवश्यकताएँ

भाग 7 ग्राइंडर्स

Draft Indian Standard

Hand-held non-electric power tools Safety requirements

Part 7 Grinders

ICS 25.140.10

Pneumatic and Hydraulic Tools Sectional
Committee, PGD 08

Last date for receipt of comment is: **29
November 2025**

NATIONAL FOREWORD

This Indian Standard which is identical with ISO 11148-7: 2012 'Hand-held non-electric power tools Safety Requirements Part 7: Grinders' issued by the International Organization for Standardization (ISO) will be adopted by the Bureau of Indian Standards on the recommendation of the Pneumatic and Hydraulic Tools Sectional Committee and approval of the Production and General Engineering Division Council.

This standard has been published in several parts, other parts in this series are:

- Part 1: Assembly power tools for non-threaded mechanical fasteners
- Part 2: Cutting-off and crimping power tools
- Part 3: Drills and tappers
- Part 4: Non-rotary percussive power tools
- Part 5: Rotary percussive drills
- Part 6: Assembly power tools for threaded fasteners
- Part 8: Sanders and polishers
- Part 9: Die grinders
- Part 10: Compression power tools
- Part 11: Nibblers and shears
- Part 12: Circular, oscillating and reciprocating saws

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.

- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 5391 Pneumatic tools and machines — Vocabulary	IS 12849:2015/ISO 5391:2003 Pneumatic tools and machines - Vocabulary (First Revision)	Identical
ISO 12100:2010 Safety of machinery — General principles for design — Risk assessment and risk reduction	IS 16819:2018/ISO 12100:2010 Safety of machinery - General principles for design - Risk assessment and risk reduction	Identical
ISO 15744 Hand-held non-electric power tools — Noise measurement code — Engineering method (grade 2)	IS/ISO 15744:2002 Hand - Held non - Electric power tools - Noise measurement code - Engineering method (Grade 2)	Identical

The technical committee has reviewed the provisions of the following International Standard referred in this adopted standard and has decided that it is acceptable for use in conjunction with this standard:

<i>International Standard</i>	<i>Title</i>
ISO 3857-3	Compressors, pneumatic tools and machines — Vocabulary — Part 3: Pneumatic tools and machines
ISO 13732-1	Ergonomics of the thermal environment — Methods for the assessment of human responses to contact with surfaces — Part 1: Hot surfaces
ISO 13732-3	Ergonomics of the thermal environment — Methods for the assessment of human responses to contact with surfaces — Part 3: Cold surfaces
ISO 17066	Hydraulic tools — Vocabulary
ISO 20643	Mechanical vibration — Hand-held and hand-guided machinery — Principles for evaluation of vibration emission
ISO 28927-1:2009	Hand-held portable power tools — Test methods for evaluation of vibration emission — Part 1: Angle and vertical grinders

ISO 28927-4	Hand-held portable power tools — Test method for evaluation of vibration emission — Part 4: Straight grinders
EN 10111	Continuously hot rolled low carbon steel sheet and strip for cold forming — Technical delivery conditions
EN 10130	Cold rolled low carbon steel flat products for cold forming — Technical delivery conditions
EN 12418	Masonry and stone cutting-off machines for job site — Safety
EN 12096	Mechanical vibration — Declaration and verification of vibration emission values

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressing the result of a test or analysis shall be rounded off in accordance with IS 2: 2022 ‘Rules for rounding off numerical values (second revision)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

NOTE: The technical content of draft standard is not available on website. For details please refer to ISO 11148-7: 2012 or contact:

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