

DIN EN ISO 11148-4:2011-03 (E)

Hand-held non-electric power tools - Safety requirements - Part 4: Non-rotary percussive power tools (ISO 11148-4:2010)

Contents		Page
Foreword		3
Introduction		4
1	Scope	5
2	Normative references	6
3	Terms and definitions	7
3.1	General definitions	7
3.2	Definitions related to non-rotary percussive power tools	8
4	Safety requirements and/or protective measures	8
4.1	General	8
4.2	Mechanical safety	9
4.3	Thermal safety	9
4.4	Noise	9
4.5	Vibration	10
4.6	Materials and substances processed, used or exhausted	10
4.7	Ergonomics and design of the handle	11
4.8	Controls	11
5	Verification	12
5.1	General conditions for tests	12
5.2	Noise	12
5.3	Vibration	12
5.4	Unintentional start	12
5.5	Power tool construction	13
5.6	Structure of verification of safety requirements	13
6	Information for use	14
6.1	Marking, signs and written warnings	14
6.2	Instruction handbook	14
6.3	Operating instructions	20
6.4	Data	20
6.5	Maintenance instructions	21
Annex A (informative)	List of significant hazards	22
Annex B (informative)	Examples of non-rotary percussive power tools covered by this part of ISO 11148	23
Annex C (normative)	Symbols for labels and signs	27
Annex D (normative)	Additional safety requirements related to internal combustion engine power tools	28
Bibliography		33
Annex ZA (informative)	Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC	32