INTERNATIONAL STANDARD

ISO 5468

Second edition
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Rotary and rotary impact masonry drill bits with hardmetal tips — Dimensions

Forets pour bâtiment, à rotation et percussion, à plaquettes en métal-dur (carbures métalliques) — Dimensions

Reference number
ISO 5468:1992(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 5468 was prepared by Technical Committee ISO/TC 29, *Small tools*, Sub-Committee SC 2, *Drills and reamers*.

This second edition cancels and replaces the first edition (ISO 5468:1977), of which it constitutes a technical revision.

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Introduction

This International Standard has been prepared with due regard to the relationship between the masonry drill bits themselves, their tolerances and the holes which they produce in order that plugs and fixings may be positively located.

Account has been taken of the sizes which are in the greatest demand and the range of diameters shown has been established only after several years of market research. Due recognition has also been given to the requirements of modern drilling technology, particularly the development from rotary to rotary impact drilling.

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Rotary and rotary impact masonry drill bits with hardmetal tips — Dimensions

1 Scope

This International Standard specifies the dimensions, in millimetres, of rotary and rotary impact masonry drill bits with hardmetal tips, having diameters in the range 4 mm to 25 mm inclusive and overall and working lengths in the series short, long and extra long.

It does not apply to hammer drills.

2 Normative reference

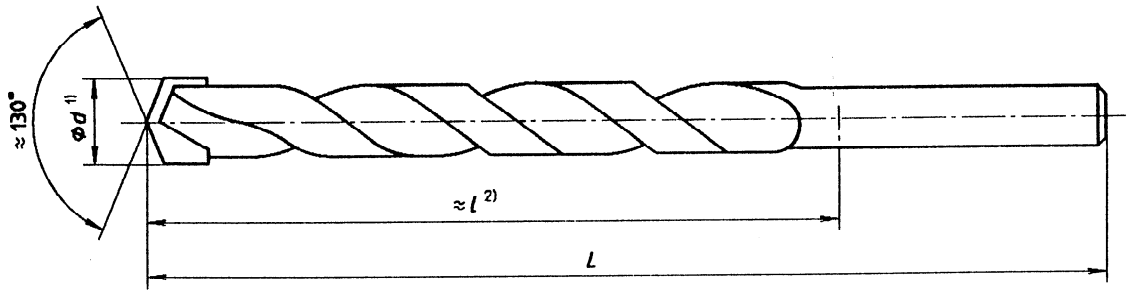
The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 286-1:1988, *ISO system of limits and fits — Part 1: Bases of tolerances, deviations and fits.*

3 Dimensions

The dimensions and tolerances are shown in figure 1 and given in table 1.

The tolerance for the cutting diameter, d, is + IT14 maximum value and + IT12 minimum value on diameter d (see ISO 286-1).



1) The diameter d of the drill is measured across the corner of the hardmetal tip after removal of paint or protective coating.
2) The length l corresponds to the overhang length of the chuck.

Figure 1

Table 1

d nom.	d tol. + IT14 + IT12	Short series Overall length L	Short series Working length $\approx l$	Long series Overall length L	Long series Working length $\approx l$	Extra long series (wall break-through) Overall length L	Extra long series (wall break-through) Working length $\approx l$	Extra long series (wall break-through) Overall length L	Extra long series (wall break-through) Working length $\approx l$	Chuck size[1)]
4	+ 0,30 + 0,12	75	39							10
4,5		85	39	150	85					10 or 13
5										
5,5										
6		100	54							
6,5	+ 0,36 + 0,15									
7										
8		120	80	200	135					10, 13 or 16
9										
10										
11	+ 0,43 + 0,18	150	90							
12				220	150	400	350	600	550	
13						—	—	—	—	
14						400	350	600	550	
15										
16										
18		160	100							
20	+ 0,52 + 0,21									13 or 16
22										
24						—	—	—	—	
25								600	550	

1) Required size depending upon the actual diameter of the shank.

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Descriptors: tools, carbide tools, drills, masonry, dimensions, dimensional tolerances.

Price based on 2 pages