

# INTERNATIONAL STANDARD

**ISO**  
**5468**

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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*

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## 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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 5468 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 2, *High speed steel cutting tools and their attachments*.

This third edition cancels and replaces the second edition (ISO 5468:1992), Table 1 of which has been technically revised.

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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 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 of rotary impact drilling.

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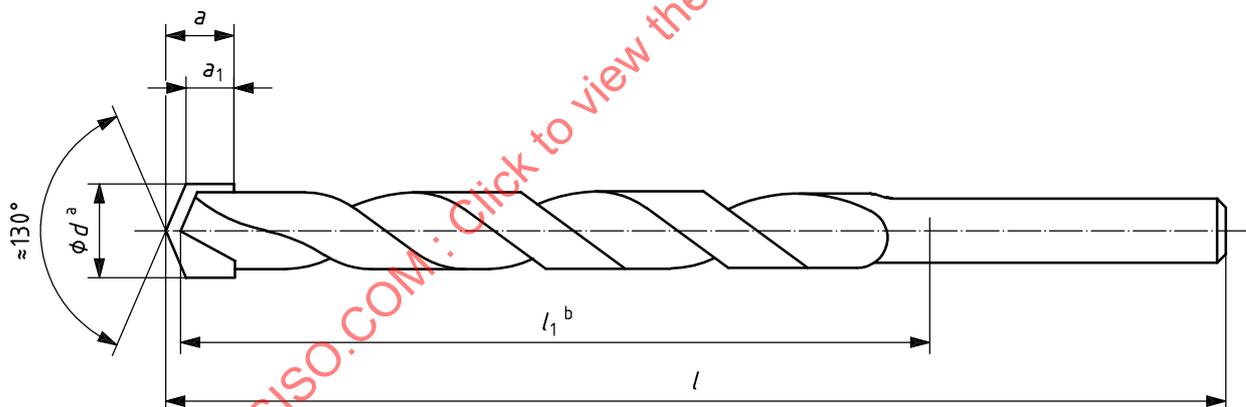
## 1 Scope

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 Dimensions

The dimensions and tolerances are shown in Figure 1 and given in Table 1.



### Key

- $a$  height of tip
- $a_1$  shoulder of tip
- $d$  cutting diameter
- $l$  total length
- $l_1$  working length

<sup>a</sup> The diameter  $d$  is measured across the corner of the hardmetal tip after removal of paint or protective coating.

<sup>b</sup> The length  $l_1$  corresponds to the overhang length of the chuck.

Figure 1

Table 1

Dimensions in millimetres

<i>d</i>		<i>a</i> <sup>a</sup>	<i>a</i> <sub>1</sub> <sup>a</sup>	Short series		Long series		Extra-long series (wall breakthrough)				Chuck size <sup>b</sup>						
				<i>l</i>	≈ <i>l</i> <sub>1</sub>	<i>l</i>	≈ <i>l</i> <sub>1</sub>	<i>l</i>	≈ <i>l</i> <sub>1</sub>	<i>l</i>	≈ <i>l</i> <sub>1</sub>							
nom.	tol.	min.	min.															
4	+ 0,40 + 0,15	0,8 <i>d</i>	0,57 <i>d</i>	75	39	150	85	—	—	—	—	10						
4,5				10 or 13														
5					85							39						
5,5																		
6																		
6,5																		
7	+ 0,45 + 0,20	0,7 <i>d</i>	0,47 <i>d</i>	100	54	200	135	—	—	—	—	10, 13 or 16						
8				120	80													
9																		
10																		
11	+ 0,5 + 0,2	0,6 <i>d</i>	0,37 <i>d</i>	150	90	—	—	400	350	600	550	13 or 16						
12													220	150	400	350	600	550
13																		
14																		
15																		
16																		
18	+ 0,55 + 0,20	0,55 <i>d</i>	0,32 <i>d</i>	160	100	—	—	400	350	600	550	13 or 16						
20																		
22																		
24																		
25								600	550									

<sup>a</sup> This dimension, *a* or *a*<sub>1</sub>, shall be observed.

<sup>b</sup> Required size depending upon the actual diameter of the shank.