
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

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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.

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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.

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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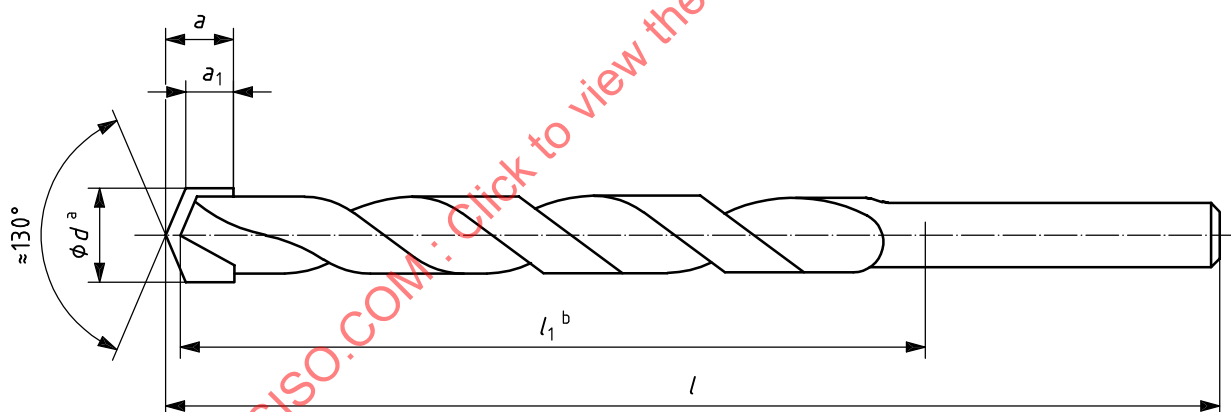
1 Scope

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

^a The diameter d is measured across the corner of the hardmetal tip after removal of paint or protective coating.

^b The length l_1 corresponds to the overhang length of the chuck.

Figure 1

Table 1

Dimensions in millimetres

d		a^a	a_1^a	Short series		Long series		Extra-long series (wall breakthrough)				Chuck size ^b	
nom.	tol.	min.	min.	l	$\approx l_1$	l	$\approx l_1$	l	$\approx l_1$	l	$\approx l_1$		
4	+ 0,40 + 0,15	0,8d	0,57d	75	39	150	85	—	—	—	—	10	
4,5				85	39							10	
5													
5,5													
6				100	54								10 or 13
6,5													
7	+ 0,45 + 0,20	0,7d	0,47d	120	80	200	135	—	—	—	—	10, 13 or 16	
8													
9													
10													
11													+ 0,5 + 0,2
12													
13													
14													
15	0,55d	0,32d	160	100	—	—	400	350	600	550			
16													
18													
20													
22											+ 0,55 + 0,20	0,55d	0,32d
24													
25													

^a This dimension, a or a_1 , shall be observed.

^b Required size depending upon the actual diameter of the shank.