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

Reference number
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Foreword

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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.

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

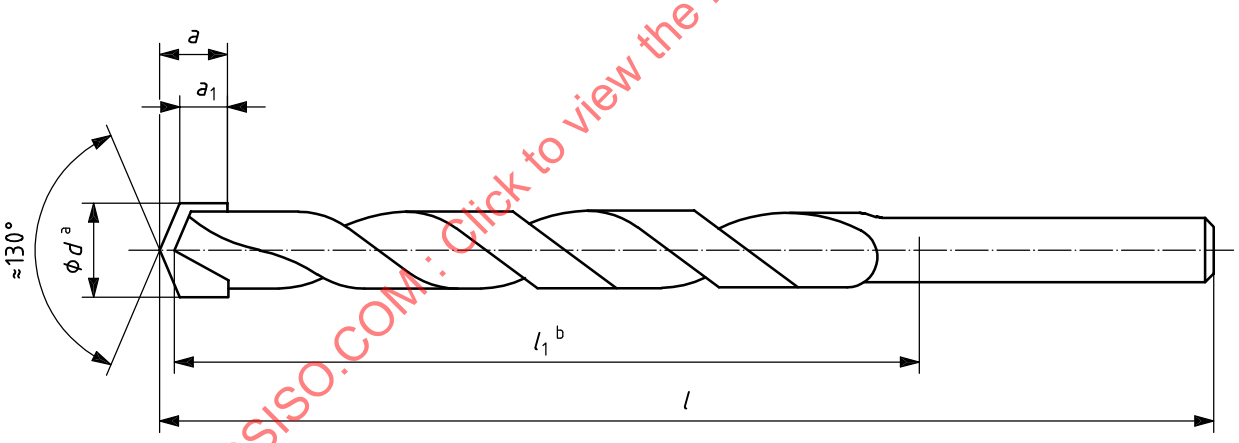
1 Scope

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 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]
				l	$\approx l_1$	l	$\approx l_1$	l	$\approx l_1$	l	$\approx l_1$	
nom.	tol.	min.	min.									
4	+ 0,40 + 0,15	0,8d	0,57d	75	39	150	85	—	—	—	—	10
4,5				85	39							10 or 13
5												
5,5												
6				100	54							
6,5	+ 0,45 + 0,20											
7												
8		0,7d	0,47d	120	80	200	135	—	—	—	—	10, 13 or 16
9												
10												
11	+ 0,5 + 0,2			150	90							
12						220	150	400	350	600	550	
13						—	—	—	—	—	—	
14						—	—	400	350	600	550	
15		0,6d	0,37d									
16												
18				160	100							
20	+ 0,55 + 0,20											13 or 16
22		0,55d	0,32d									
24								—	—	—	—	
25								—	—	600	550	

[a] This dimension, a or a_1, shall be observed.

[b] Required size depending upon the actual diameter of the shank.