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तथा घूर्णी संघट्ट चिनाई बरमा अनी — आयाम

Indian Standard

ROTARY AND ROTARY IMPACT MASONRY
DRILL BITS WITH HARD METAL TIPS —
DIMENSIONS

ICS 25.100.30

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BUREAU OF INDIAN STANDARDS
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NATIONAL FOREWORD

This Indian Standard which is identical with ISO 5468 : 1992 'Rotary and rotary impact masonry drill bits with hard metal tips — Dimensions' issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendations of Drills, Reamers and Threading Tools Sectional Committee and approval of the Basic and Production Engineering Division Council.

The text of the ISO Standard has been approved as suitable for publication as Indian Standard without deviations. For the Drill Bits covered in this standard, K 10 range of application according to IS 2428 : 1964 'Application of carbides for machining, ranges of application and colour code' is considered suitable for use in India. In this adopted standard, certain terminology and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker in the International Standard while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to the following International Standard for which Indian Standard also exists. The corresponding Indian Standard which is to be substituted in its place is listed below along with its degree of equivalence for the edition indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 286-1 : 1988 ISO system of limits and fits — Part 1: Basis of tolerances, deviations and fits	IS 919 (Part 1) : 1993 ISO system of limits and fits: Part 1 Basis of tolerances, deviations and fits (<i>second revision</i>)	Identical

Indian Standard

ROTARY AND ROTARY IMPACT MASONRY DRILL BITS WITH HARD METAL 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

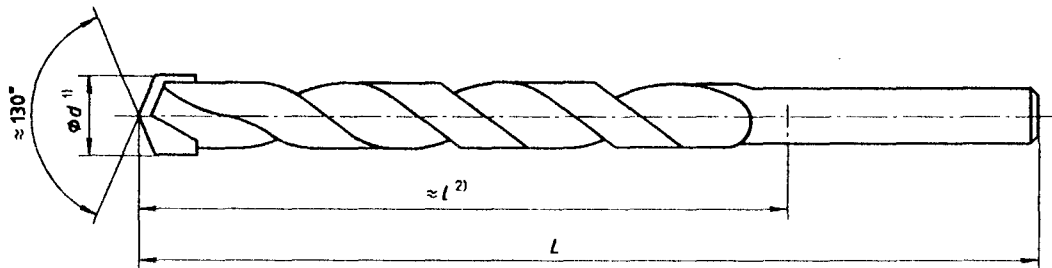
are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

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

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

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

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Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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