INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEXALYHAPOAHAR OPFAHUSALUR TIO CTAHAAPTUSALURU ORGANISATION INTERNATIONALE DE NORMALISATION

Metal cutting band saw blades — Part II: Basic dimensions and tolerances

Lames de scies à ruban à métaux — Partie II : Dimensions de base et tolérances

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ISO 4875-2:1978 https://standards.iteh.ai/catalog/standards/sist/1fe13fd8-868d-4498-b0e8-59bcc1e3eada/iso-4875-2-1978

(a) 88 UDC 621.93.023 Descriptors: tools, cut

Ref. No. ISO 4875/II-1978 (E)

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 4875/II was developed by Technical Committee ISO/TC 29, Small tools, and was circulated to the member bodies in August 1976.

It has been approved by the member bodies of the following countries:

ISO 4875-2:1978

Australia Ilsrael/standards.iteh.ai/catalogSwitzerlandst/1fe13fd8-868d-4498-b0e8-

Belgium Italy 59bcc1e3**Turkey**-4875-2-1978

Brazil Korea, Rep. of United Kingdom
Bulgaria Mexico U.S.A.

Czechoslovakia Philippines U.S.S.R.
France Romania Yugoslavia

Hungary South Africa, Rep. of

India Spain

The member bodies of the following countries expressed disapproval of the document on technical grounds:

Germany, F.R. Poland Sweden

Metal cutting band saw blades — Part II: Basic dimensions and tolerances

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1 SCOPE AND FIELD OF APPLICATION

3.1 Widths
<u>ISO 4875-2</u>;1978

This International Standard lays down the basic dimensions described and some tolerances for metal cutting band saw blades 0-487 5-2-1978

The combinations of nominal dimensions \times pitch for each type of blade are contained in ISO 4875/III.

The various terms used for metal cutting band saw blades are defined in ISO 4875/I.

2 REFERENCES

ISO 4875/I, Metal cutting band saw blades — Part I: Definitions and terminology.

ISO 4875/III, Metal cutting band saw blades — Part III: Characteristics relating to each type of blade.

3 BASIC DIMENSIONS AND TOLERANCES

The metric widths (table 1), thicknesses (table 2) and pitches (table 3) of the blades are selected from the R 40 series of preferred numbers. Table 3 also gives the relationship between the pitch and the number of teeth per 25 mm (1 in).

5-2-1978 Dimensions in millimetres		Dimensions in inches	
Width	Tolerance	Width	Tolerance
3,15	0 - 0,4	1/8	
4,75		3/16	
6,3		1/4	0
8,0		5/16	– 0.016
9,5		3/8	est e e
12,5		1/2	
16,0	0 - 0,5	5/8	
19,0		3/4	
25,0		1	
31,5		1 1/4	0 0.020
37,5		1 1/2	
40,0		1 5/8	
50,0		2	

3.2 Thicknesses

TABLE 2 - Blade thicknesses

Dimensions in millimetres		Dimensions in inches	
Thickness	Tolerance	Thickness	Tolerance
0,63	± 0,025	0.025	± 0.001 0
08,0	± 0,038	0.032	
0,90		0.035	. 0.001 5
1,06		0.042	± 0.001 5
1,25		0.050	

3.3 Pitches

TABLE 3 - Blade pitches

Pitch (mm)	Number of teeth per 25 mm (1 in)
0,8	32
1,0	iTeh STANI
1,4	18 (standa
1,8	14 (Standa
2,5	10
3,15	https://standards.iteh.ai/catalog/s
4,0	6 59bcc1e3e
6,3	4
8,0	3
12,5	2

4 OTHER TOLERANCES

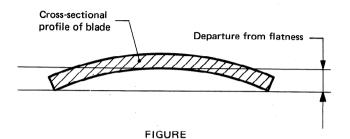
4.1 Tooth set tolerance

The overall set is left at the option of the manufacturer.

The set at each side of the blade shall be equal and maintained within the limits of \pm 0,05 mm (\pm 0.002 in) or \pm 0,10 mm (\pm 0.004 in) overall.

4.2 Flatness tolerances

The blade shall be flat across the sectional profile exclusive of set (see figure) within the tolerances of table 4.



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TABLE 4 — Flatness tolerances

	Dimensions in millimetres		Dimensions in inches		
D <i>A</i> .ar	RD PR Blade width ds.iteh	Permissible departure from flatness	Blade width	Permissible departure from flatness	
O 48	up to and including 12,5	0,025	up to and including 1/2	0.001 0	
ystar eada	10	d8-868d-4498- 78	b0e8- 5/8	0.001 5	
Curac	19		3/4		
	25		1		
	31,5	0,050	1 1/4	0.002 0	
	37,5		1 1/2		
	40,0		1 5/8		
	50,0	0,075	2	0.003 0	