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**INTERNATIONAL STANDARD**



**2924**

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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**Solid and segmental circular saws for cold cutting of metals —  
Interchangeability dimensions of the drive — Saw diameter  
range 224 to 2 240 mm**

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## 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 2924 was drawn up by Technical Committee ISO/TC 29, *Small tools*, and circulated to the Member Bodies in October 1972.

It has been approved by the Member Bodies of the following countries :

Austria	India	Thailand
Belgium	Israel	Turkey
Czechoslovakia	Italy	United Kingdom
France	Romania	U.S.S.R.
Germany	South Africa, Rep. of	
Hungary	Switzerland	

No Member Body expressed disapproval of the document.

# Solid and segmental circular saws for cold cutting of metals – Interchangeability dimensions of the drive – Saw diameter range 224 to 2 240 mm

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the interchangeability dimensions of the drive of saws for cold cutting of metals.

It applies to all types of circular saws for metal working, both solid saws made from high speed steel and saws with detachable segments.

## 2 REFERENCES

ISO/R 240, *Interchangeability dimensions for milling cutters and cutter arbors or cutter mandrels – Metric series and inch series.*

ISO/R 523, *Recommended range of outside diameters for milling cutters.*

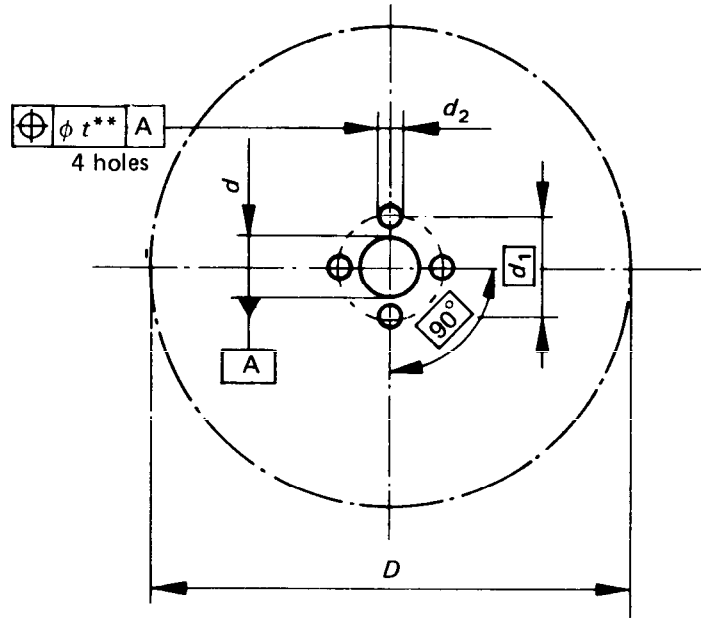
ISO/R 1101, *Tolerances of form and of position – Part 1 : Generalities, symbols, indications on drawings.*

## 3 INTERCHANGEABILITY

The complete range of external diameters  $D$  is subdivided into a number of groups, the ranges of which have been taken from the R 20 series of preferred numbers and that of the diameters recommended in the R 10 series, in compliance with ISO/R 523.

The range of internal diameters  $d$  is taken from ISO/R 240, with the addition of internal diameter 120 mm.

4 DIMENSIONS



Dimensions in millimetres

SAWS						MACHINES	
Diameter range $D$		$D$ preferred size	$d$ H8*	$d_1$	$d_2$ J <sub>s</sub> 14	$t^{**}$	Diameter of the 4 driving pins $d'_2$ h8
Above	up to						
224	280	250	32	50	8,5	0,30	8
280	355	315	40	63	10,5	0,30	10
355	450	400	50	80	17	0,35	16
450	560	500		100			
560	710	630	80	120	22	0,35	20
710	900	800					
900	1 120	1 000	100	200	32	0,45	30
1 120	1 400	1 250					
1 400	1 800	1 600	120	315	40	0,55	38
1 800	2 240	2 000		400			

\* For special applications, when saw blades are running at higher speeds, a tolerance of H7 is recommended.

\*\* Dimension  $t$  represents the positional tolerance of the hole of diameter  $d_2$ . Its centre should lie inside a circle of diameter  $t$ , the centre of which coincides with the true specified position of the point considered (see ISO/R 1101).

