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ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

3F OF 1501R 355-VI. 1970 ISO RECOMMENDATION R 355

PART VII ROLLING BEARINGS

TAPERED ROLLER BEARINGS BOUNDARY DIMENSIONS

SUB-UNITS METRIC SERIES DIMENSION SERIES 30, 31 AND 32

> st EDITION November 1970

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BRIEF HISTORY

The ISO Recommendation R 355/VII, Rolling bearings — Tapered roller bearings — Boundary dimensions — Sub-units — Metric series — Dimension series 30, 31 and 32, was drawn up by Technical Committee ISO/TC 4, Rolling bearings, the Secretariat of which is held by the Sveriges Standardiseringskommission (SIS).

Work on this question led to the adoption of Draft ISO Recommendation No. 1645, which was circulated to all the ISO Member Bodies for enquiry in November 1968. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies:

Australia Hungary India Austria Belgium Israel Canada Italy Chile Korea, Rep. of Czechoslovakia Netherlands Peru France Germany Poland Greece Romania

South Africa, Rep. of Spain Sweden Switzerland Turkey U.A.R. United Kingdom

U.S.A. U.S.S.R.

No Member Body opposed the approval of the Draft.

This Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided to accept it as an ISO RECOMMENDATION.

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R 355

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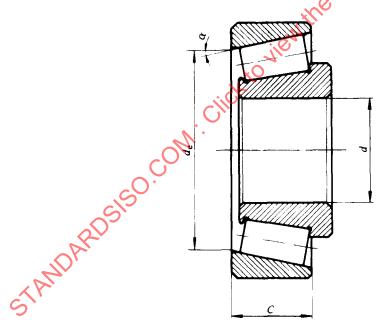
SUB-UNITS METRIC SERIES DIMENSION SERIES 30, 31 AND 32

1. SCOPE

The sub-units of tapered roller bearings consist of outer ring (cup unit) and inner ring, roller and cage assembly (cone unit). The boundary dimensions and tolerances of the complete bearings are given in relevant ISO Recommendations.

In this ISO Recommendation only the additional sub-unit boundary dimensions are given with reference to the bearing bore diameter and dimension series

2. SYMBOLS AND ABBREVIATIONS



d = bearing bore diameter

 α = bearing angle of contact

 $d_{\rm e}$ = small inside diameter of outer ring

C = outer ring width

The dimension series numbers refer to ISO Recommendation R 355, Rolling bearings – Tapered roller bearings – Boundary dimensions, Parts III and VI.

Bearing type symbols are given in accordance with ISO Recommendation R 300, ISO Identification code for rolling bearings. In addition, the manufacturers' usual series numbers are indicated.

3. BOUNDARY DIMENSIONS

TABLE 1 – Bearing type code symbol KB Dimension series 30 (Manufacturers' series 330)

T				4
Dim	ensions	ın	millin	ietre:

	Dimensions in millimetres				
Bore	Dimension series 30				
diameter d	α	$d_{ m e}$	С		
25	10° 55′	38.278	14		
30	11°	45.283	16		
35	11° 30′	51.320	17		
40	10° 40′	57.290	18-0		
45	11° 5′	63.116	19		
50	11° 55′	67.775	<u>019</u>		
55	11° 45′	76.656	21		
60	12° 20′	80.422	21		
65	13° 5′	85.257	21		
70	10° 45′	95.021	25.5		
75	11° 15′	99.400	25.5		
80	10° 30′ 🐧	107.750	29.5		
85	11°,	112.838	29.5		
90	10°10′	122.363	32.5		
95	10° 30′	126.346	32.5		
100	10° 50′	130.323	32.5		
105	10° 40′	139.304	34		
110	10° 50′	146.265	37		
120	11° 30′	154.777	38		
130	12° 50′	172.017	43		
140	13° 30′	180.353	44		
150	13° 40′	194.260	46		

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