Rolling bearings — Tapered roller bearings — Boundary dimensions — Sub-units — Metric series — Dimension series 29 and 13

ISO 355/VIII-1973 (E)

Price based on 2 pages

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 355/VIII (originally Draft International Standard ISO/DIS 2280) was drawn up by Technical Committee ISO/TC 4, *Rolling bearings,* and circulated to the Member Bodies in April 1971.

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

Australia	Hungary	South Africa, Rep. of
Austria	India	Spain
Belgium	Ireland	Sweden
Canada	Italy	Switzerland
Czechoslovakia	Japan	Thailand
Egypt, Arab Rep. of	Korea, Rep. of	Turkey
France	Netherlands	United Kingdom
Germany	Romania	U.S.S.R.

The Member Body of the following country expressed disapproval of the document on technical grounds :

U.S.A.

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0 INTRODUCTION

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 the relevant ISO publications.

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the additional sub-unit boundary dimensions of tapered roller bearings, with reference to the bearing bore diameter for dimension series 29 and 13 (manufacturers' series 329 and 313 X respectively).

2 SYMBOLS
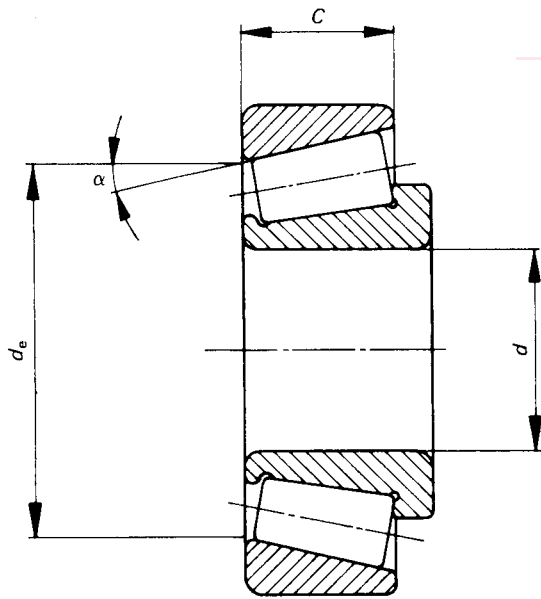
d = bearing bore diameter

α = bearing angle of contact

d_e = small inside diameter of outer ring

C = outer ring width

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

3 BOUNDARY DIMENSIONS

TABLE 1 — Bearing type code symbol KB[1] — Dimension series 29
(Manufacturers' series 329)

Dimensions in millimetres

Bore diameter	Dimension series 29		
d	α	d_e	C
35	11°	47,220	11,5
40	10°55'	53,388	12
45	12°	58,852	12
50	12°50'	62,748	12
55	11°39'	69,503	14
60	12°27'	74,185	14
65	13°15'	78,849	14
70	11°53'	88,590	16
75	12°31'	93,223	16
80	13°10'	97,974	16
85	12°18'	106,599	18
90	12°51'	111,282	18
95	13°25'	116,082	18
100	12°23'	125,717	20
105	12°51'	130,359	20
110	13°20'	135,182	20
120	13°05'	148,464	23
130	12°45'	161,652	25
140	13°30'	171,032	25
150	12°20'	187,926	30
160	13°	197,962	30
170	14°20'	206,564	30
180	17°45'	218,571	34
190	17°39'	228,578	34
200	14°45'	249,698	39
220	15°50'	267,685	39
240	17°	286,952	39
260	15°10'	320,783	48
280	16°05'	339,778	48
300	14°45'	374,706	57
320	15°30'	393,406	57
340	16°15'	412,043	57
360	17°	430,612	57

1) The bearings with d = 180 and 190 mm have the code symbol KC.