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ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 1123

ROLLING BEARINGS

TAPERED ROLLER BEARINGS
INCH SERIES
CHAMFER DIMENSION LIMITS

1st EDITION September 1969

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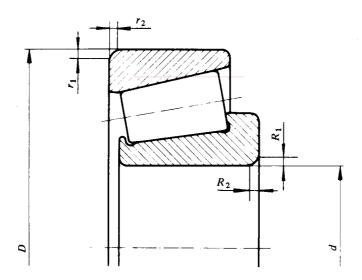
INCH SERIES

CHAMFER DIMENSION LIMITS

1. SCOPE

This ISO Recommendation comprises the maximum chamfer dimension limits for the chamfers, for which minimum values R_{\min} and r_{\min} are given in ISO Recommendation R 355, Part I, Rolling bearings — Tapered roller bearings — Boundary dimensions.

2. SYMBOLS



d = inner ring bore diameter

D = outer ring outside diameter

R = nominal dimension of inner ring backface chamfer

 R_1 = height of inner ring backface chamfer R_2 = width of inner ring backface chamfer

r = nominal dimension of outer ring backface chamfer

 r_1 = height of outer ring backface chamfer r_2 = width of outer ring backface chamfer

3. CHAMFER DIMENSION LIMITS

TABLE 1 - Inner ring

Bore diameter d nominal		Chamfer height		Chamfer width	
		Val	ues in inches		
_	2	R	R + 0.015	R	R + 0.035
(2)	4	R	R + 0.020	R	R + 0.050
(4)	10	R	R + 0.025	R	R + 0.070
	<u> </u>	Values	in millimetres		
_	50.8	R	R + 0.38	R	R + 0.89
(50.8)	101.6	R	R + 0.51	R	R + 1.27
(101.6)	254	R	R + 0.64	R	R + 1.78

The value of R is identical with that of R_{\min} in ISO Recommendation R 355, Part I.

TABLE 2 - Outer ring

Outside diameter D nominal		Chamfer height		Chamfer width					
						Over	Incl.	Min.	Max.
Values in inches									
_	4	r	r + 0.023	r	r + 0.042				
(4)	6.625	r	r + 0.025	r	r + 0.046				
(6.625)	14	r	r + 0.033	r	r + 0.053				
		Values	in millimetres						
	101.6	r	r + 0.58	r	r + 1.07				
(101.6)	168.275	r	r + 0.64	r	r + 1.17				
(168.275)	355.6	r	r + 0.84	r	r + 1.35				

The value of r is identical with that of r_{\min} in ISO Recommendation R 355, Part I.