

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 1646

ROLLING BEARINGS

DOUBLE ROW SELF-ALIGNING BALL BEARINGS
RADIAL INTERNAL CLEARANCE

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ROLLING BEARINGS

DOUBLE ROW SELF-ALIGNING BALL BEARINGS

RADIAL INTERNAL CLEARANCE

1. SCOPE

This ISO Recommendation gives the values of the radial internal clearance for double row self-aligning ball bearings. The radial clearance is defined in ISO Recommendation R 200, *Rolling bearings – Internal clearance in unloaded bearings – Definitions*: section 1. The values for bearings with cylindrical bore are given in Table 1 and those for bearings with tapered bore in Table 2.

2. RADIAL INTERNAL CLEARANCE

TABLE 1 – Radial clearance in unloaded bearings with cylindrical bore

Clearance values in micrometres

Bore diameter <i>d</i> millimetres		Group 2		Normal Group		Group 3		Group 4	
Over	Incl.	Low	High	Low	High	Low	High	Low	High
2.5	6	1	5	5	10	10	15	15	21
6	10	2	6	6	12	12	19	19	27
10	14	2	6	6	13	13	21	21	30
14	18	3	8	8	15	15	23	23	32
18	24	4	10	10	17	17	25	25	34
24	30	5	11	11	19	19	29	29	40
30	40	6	13	13	23	23	34	34	46
40	50	6	14	14	25	25	37	37	50
50	65	7	16	16	30	30	45	45	65
65	80	8	18	18	35	35	54	54	76
80	100	9	22	22	42	42	64	64	89
100	120	10	25	25	50	50	75	75	105
120	140	10	30	30	60	60	90	90	130
140	160	15	35	35	70	70	110	110	150