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AMENDMENT 1
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Rolling bearings — Insert bearings and eccentric locking collars — Boundary dimensions and tolerances —

AMENDMENT 1: Diameter series 3

Roulements — Roulements «insert» et bagues de blocage excentriques — Dimensions d'encombrement et tolérances — AMENDEMENT 1: Série de diamètres 3

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Foreword

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Amendment 1 to ISO 9628:2006 was prepared by Technical Committee ISO/TC 4, *Rolling bearings*, Subcommittee SC 6, *Insert bearings and accessories*.

Rolling bearings — Insert bearings and eccentric locking collars — Boundary dimensions and tolerances —

AMENDMENT 1: Diameter series 3

Page 1, Normative references

Delete the date “1998” from ISO 15.

Page 1, Clause 4

In the second paragraph, replace “in Tables 1 to 8” with “in Tables 1 to 12”.

Page 6, 5.3

Replace “to the diameter series 2 of ISO 15:1998” with “to either diameter series 2 or diameter series 3 of ISO 15”.

Page 6, 5.4

In the first sentence of the first paragraph, replace “dimension series 02 of ISO 15:1998” with “dimension series 02 or dimension series 03 of ISO 15”.

Page 6, 5.5

In the second sentence, replace “to dimension series 02 in ISO 15:1998” with “to either dimension series 02 or dimension series 03 of ISO 15”.

Page 6, Clause 6

In the first sentence, replace “given in Tables 1 to 5” with “given in Tables 1 to 5, 9 and 10”.

Page 17, Clause 7

In the first sentence, replace “given in Tables 6 and 7, respectively” with “given in Tables 6, 7 and 11”.

Page 17, Clause 8

In the second paragraph, replace “given in Table 8” with “given in Tables 8 and 12”.

Tables 1 to 8

At the end of the titles of Tables 1 to 8, add “— Diameter series 2”.

Page 19

After Table 8, insert the following new Tables 9 to 12.

Table 9 — Insert bearings — Wide overall width — Axially extending eccentric locking collar — Diameter series 3 (see Figure 1)

d		D	B_1 max.	(S)	S_1 max.	C^a		$C_1{}^b$	$C_2{}^b$
						min.	max.		
mm	in	mm	mm	mm	mm	mm		mm	mm
25	—	62	46,8	16,7	30,1	17	24	5,6	3
30 30,162	— 1-3/16	72	50,2	17,5	32,7	19	26	6	3
31,75 33,338 34,925 35 36,512	1-1/4 1-5/16 1-3/8 — 1-7/16	80	51,6	18,3	33,3	21	28	6,7	3,5
38,1 40	1-1/2 —	90	57,2	19,8	37,4	23	30	7,5	4
41,275 42,862 44,45 45	1-5/8 1-11/16 1-3/4 —	100	58,7	19,8	38,9	25	33	8,3	4
47,625 49,212 50	1-7/8 1-15/16 —	110	66,7	24,6	42,1	27	35	9,5	4,5
50,8 52,388 55	2 2-1/16 —	120	73	27,8	45,2	29	37	10,3	5
60 61,912	— 2-7/16	130	79,4	31	48,4	31	39	11,1	5
63,5 65	2-1/2 —	140	85,7	32,5	53,2	33	41	11,9	5,5
68,262 70	2-11/16 —	150	92,1	34,1	58	35	43	12,7	6
74,612 75 76,2	2-15/16 — 3	160	100	37,3	62,7	37	46	13,5	6

Table 9 (*continued*)

d		D	B_1	(S)	S_1	C^a		$C_1{}^b$	$C_2{}^b$
			max.		max.	min.	max.		
mm	in	mm	mm	mm	mm	mm		mm	mm
80 80,962	— 3-3/16	170	106,4	40,5	65,9	39	48	14,3	6,5
85	—	180	109,5	42	67,5	41	50	15,1	7
87,312 90	3-7/16 —	190	115,9	42,1	73,8	43	52	15,9	7
95	—	200	122,3	38,9	83,4	45	54	16,7	7,5
100 100,012 101,6	— 3-15/16 4	215	129,6	50	79,6	47	58	18,3	8
105	—	225	139,7	48,4	91,3	49	60	19,1	8
110	—	240	141,3	49,2	92,1	50	62	20,6	8,5

[a] The minimum and maximum widths are not tolerances; they indicate a range within which the nominal value shall fall.

[b] The relubrication means in the outer ring, if used, shall be located on one or both sides of the outer ring zones defined by the dimensions C_1 and C_2 in such a way that lubricant satisfactorily feeds into the bearing from a housing bore groove covering the zone.

Table 10 — Insert bearings — Intermediate overall width — Locking device not axially extending — Diameter series 3 (see Figures 2 and 3)

d		D	B	(S)	S_1	C^a		$C_1{}^b$	$C_2{}^b$
			max.		max.	min.	max.		
mm	in	mm	mm	mm	mm	mm		mm	mm
25	—	62	38	15	23	17	24	5,6	3
30 30,162	— 1-3/16	72	43	17	26	19	26	6	3
31,75 33,338 34,925 35 36,512	1-1/4 1-5/16 1-3/8 — 1-7/16	80	48	19	29	21	28	6,7	3,5
38,1 40	1-1/2 —	90	52	19	33	23	30	7,5	4
41,275 42,862 44,45 45	1-5/8 1-11/16 1-3/4 —	100	57	22	35	25	33	8,3	4
47, 625 49,212 50	1-7/8 1-15/16 —	110	61	22	39	27	35	9,5	4,5
50,8 52,388 55	2 2-1/16 —	120	66	25	41	29	37	10,3	5
60 61,912	— 2-7/16	130	71	26	45	31	39	11,1	5
63,5 65	2-1/2 —	140	75	30	45	33	41	11,9	5,5
68,262 70	2-11/16 —	150	78	33	45	35	43	12,7	6
74,612 75 76,2	2-15/16 — 3	160	82	32	50	37	46	13,5	6
80 80,962	— 3-3/16	170	86	34	52	39	48	14,3	6,5

Table 10 (*continued*)

d		D	B	(S)	S_1	C^a		$C_1{}^b$	$C_2{}^b$
			max.		max.	min.	max.		
mm	in	mm	mm	mm	mm	mm		mm	mm
85	—	180	96	40	56	41	50	15,1	7
87,312 90	3-7/16 —	190	96	40	56	43	52	15,9	7
95	—	200	103	41	62	45	54	16,7	7,5
100 100,012 101,6	— 3-15/16 4	215	108	42	66	47	58	18,3	8
105	—	225	112	44	68	49	60	19,1	8
110	—	240	117	46	71	50	62	20,6	8,5
120	—	260	126	51	75	55	66	20,6	9
130	—	280	135	54	81	58	72	22,2	9,5
140	—	300	145	59	86	62	76	23,8	10,5

[a] The minimum and maximum widths are not tolerances; they indicate a range within which the nominal value shall fall.

[b] The relubrication means in the outer ring, if used, shall be located on one or both sides of the outer ring zones defined by the dimensions C_1 and C_2 in such a way that lubricant satisfactorily feeds into the bearing from a housing bore groove covering the zone.

Table 11 — Tolerances for bearings — Diameter series 3

d		Δ_{dmp}		V_{dsp}
>	⩽	high	low	max.
mm		μm		μm
24	30,162	+18	0	12
30,162	50	+21	0	14
50	80,962	+24	0	16
80,962	120	+28	0	19
120	140	+33	0	22

NOTE Tolerance values are applicable to finished bores, whether or not the bore is plated or treated.