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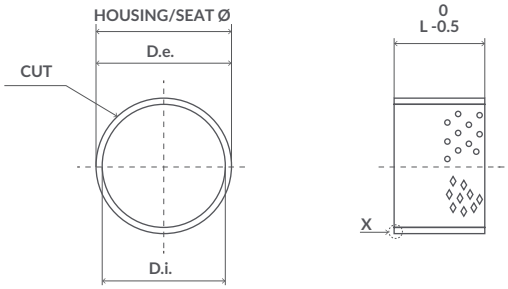
SLIDING BEARINGS DIVISION
HYDRAULIC, ENERGY AND METAL INDUSTRY

SB-30 TYPE C - DIMENSIONS AND TOLERANCE
applicable for materials: SB-30, SB-31

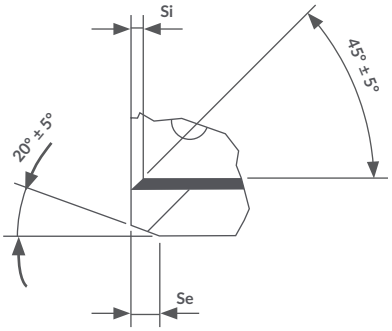
Operational control table for the production and verification of cylindrical bearings according to ISO 3547-2 test C



LEGEND:
MEASURE: Inside and outside bearing diameters
INSIDE Ø: Tolerance range of the inside Ø after the assembly in the seat (mm)
HOUSING/SEAT Ø: Housing/seat tolerance (mm)
BEARING THICKNESS: Thickness tolerance of the finished bearing (mm)
CUT: Maximum opening of the bearing flaps (carbon steel and other materials) (mm)
Ø SHAFT TOL. f7: Correct shaft size to use with the bearing
L: Bearing length

CHAMFERS

THICKNESS	Se (OUTSIDE Ø - OD)	Si (INSIDE Ø - ID)
0.70 mm	0.50 ± 0.30mm	0.10 - 0.40 mm
1.00 mm	0.60 ± 0.40mm	0.10 - 0.50 mm
1.50 mm	0.60 ± 0.40mm	0.10 - 0.60 mm
2.00 mm	1.20 ± 0.40mm	0.10 - 0.70 mm
2.50 mm	1.80 ± 0.60mm	0.10 – 1.00 mm



MEASURE	THICKNESS	INSIDE Ø	HOUSING/ SEAT Ø (H7)	Ø SHAFT (f7)	Si	Se	L (0/-0,50)									
D.i. - D.e.	Min. - Max.	Min. - Max.	Min. - Max.	Min. - Max.	(mm)	(mm)	6	8	10	12	15	20	25	30	40	50
6 - 8	0,978 - 1,000	6,000 - 6,044	8,000 - 8,015	5,972 - 5,987	0,50	0,30	x	x	x							
8 - 10	0,978 - 1,000	8,000 - 8,044	10,000 - 10,018	7,972 - 7,987	0,50	0,30	x	x	x							
10 - 12	0,978 - 1,000	10,000 - 10,044	12,000 - 12,018	9,972 - 9,987	0,50	0,30			x	x	x	x				
12 - 14	0,978 - 1,000	12,000 - 12,044	14,000 - 14,018	11,966 - 11,984	0,50	0,30			x	x	x	x				
13 15	0,978 - 1,000	13,000 13,044	15,000 15,018	12,966 - 12,984	0,50	0,30			x	x	x	x				
14 - 16	0,978 - 1,000	14,000 - 14,044	16,000 - 16,018	13,966 - 13,984	0,50	0,30			x	x	x	x	x			
15 - 17	0,978 - 1,000	15,000 - 15,044	17,000 - 17,018	14,966 - 14,984	0,50	0,30			x	x	x	x	x			
16 - 18	0,978 - 1,000	16,000 - 16,044	18,000 - 18,018	15,966 - 15,984	0,50	0,30			x	x	x	x	x			
17 19	0,978 - 1,000	17,000 17,044	19,000 19,018	16,966 16,984	0,50	0,30			x	x	x	x	x			
18 - 20	0,978 - 1,000	18,000 - 18,044	20,000 - 20,021	17,966 - 17,984	0,50	0,30			x	x	x	x	x			
20 - 23	1,474 - 1,500	20,000 - 20,052	23,000 - 23,021	19,959 - 19,980	0,80	0,40			x	x	x	x	x	x		
22 - 25	1,474 - 1,500	22,000 - 22,052	25,000 - 25,021	21,959 - 21,980	0,80	0,40					x	x	x	x		

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SB-30 TYPE C DIMENSIONS AND TOLERANCE

applicable for materials: SB-30, SB-31

MEASURE	THICKNESS	INSIDE Ø	HOUSING/ SEAT Ø (H7)	Ø SHAFT (f7)	Si	Se	L (0/-0,50)									
D.i. - D.e.	Min. - Max.	Min. - Max.	Min. - Max.	Min. - Max.	(mm)	(mm)	6	8	10	12	15	20	25	30	40	50
24 - 27	1,474 - 1,500	24,000 - 24,052	27,000 - 27,021	23,959 - 23,980	0,80	0,40					x	x	x	x		
25 - 28	1,474 - 1,500	25,000 - 25,052	28,000 - 28,021	24,959 - 24,980	0,80	0,40					x	x	x	x	x	x
28 - 32	1,969 - 2,000	28,000 - 28,062	32,000 - 32,025	27,959 - 27,980	1,00	0,50					x	x	x	x	x	x
30 - 34	1,969 - 2,000	30,000 - 30,062	34,000 - 34,025	29,959 - 29,980	1,00	0,50					x	x	x	x	x	x
32 - 36	1,969 - 2,000	32,000 - 32,062	36,000 - 36,025	31,950 - 31,975	1,00	0,50						x	x	x	x	x
35 - 39	1,969 - 2,000	35,000 - 35,062	39,000 - 39,025	34,950 - 34,975	1,00	0,50						x	x	x	x	x
38 - 42	1,969 - 2,000	38,000 - 38,062	42,000 - 42,025	37,950 - 37,975	1,00	0,50						x	x	x	x	x
40 - 44	1,969 - 2,000	40,000 - 40,062	44,000 - 44,025	39,950 - 39,975	1,00	0,50						x	x	x	x	x
45 - 50	2,463 - 2,500	45,000 - 45,074	50,000 - 50,025	44,950 - 44,975	1,20	0,60	x	x	x	x	x					
50 - 50	2,463 - 2,500	50,000 - 50,000	50,000 - 50,030	49,950 - 49,970	1,20	0,60	x	x	x	x	x	x				
55 - 55	2,463 - 2,500	55,000 - 55,000	55,000 - 55,030	54,950 - 54,970	1,20	0,60	x	x	x	x	x	x				
60 - 60	2,463 - 2,500	60,000 - 60,000	60,000 - 60,030	59,950 - 59,970	1,20	0,60	x	x	x	x	x	x	x			
65 - 65	2,463 - 2,500	65,000 - 65,000	65,000 - 65,030	64,940 - 64,970	1,20	0,60		x	x	x	x	x	x			
70 - 70	2,463 - 2,500	70,000 - 70,000	70,000 - 70,030	69,940 - 69,970	1,20	0,60		x	x	x	x	x	x	x		
75 - 75	2,463 - 2,500	75,000 - 75,000	75,000 - 75,035	74,940 - 74,970	1,20	0,60		x	x	x	x	x	x	x		
80 - 80	2,463 - 2,500	80,000 - 80,074	80,000 - 80,035	79,940 - 79,970	1,40	0,70		x	x	x	x	x	x	x		
85 - 85	-0,044 - 2,500	85,000 - 85,087	85,000 - 85,035	84,940 - 84,970	1,40	0,70		x	x	x	x	x	x	x	x	x
90 - 90	-0,044 - 2,500	90,000 - 90,087	90,000 - 90,035	89,929 - 89,964	1,40	0,70		x	x	x	x	x	x	x	x	x
95 - 95	-0,044 - 2,500	95,000 - 95,000	95,000 - 95,035	94,929 - 94,964	1,40	0,70				x	x	x	x	x	x	x
100 - 100	-0,044 - 2,500	100,000 - 100,000	100,000 - 100,035	99,929 - 99,964	1,40	0,70					x	x	x	x	x	x
105 - 105	-0,044 - 2,500	105,000 - 105,000	105,000 - 105,035	104,929 - 104,964	1,40	0,70					x	x	x	x	x	x
110 - 110	-0,044 - 2,500	110,000 - 110,000	110,000 - 110,035	109,929 - 109,964	1,40	0,70					x	x	x	x	x	x
115 - 115	-0,044 - 2,500	115,000 - 115,000	115,000 - 115,035	114,929 - 114,964	1,60	0,80					x	x	x	x	x	x
120 - 120	-0,044 - 2,500	120,000 - 120,000	120,000 - 120,035	119,929 - 119,964	1,60	0,80						x	x	x	x	x
125 - 125	-0,050 - 2,500	125,000 - 125,100	125,000 - 125,040	124,917 - 124,957	1,60	0,80						x	x	x	x	x
130 - 130	-0,050 - 2,500	130,000 - 130,100	130,000 - 130,040	129,917 - 129,957	1,60	0,80						x	x	x	x	x
135 - 135	-0,050 - 2,500	135,000 - 135,000	135,000 - 135,040	134,917 - 134,957	1,60	0,80						x	x	x	x	x
140 - 140	-0,050 - 2,500	140,000 - 140,000	140,000 - 140,040	139,917 - 139,957	1,60	0,80						x	x	x	x	x
145 - 145	-0,050 - 2,500	145,000 - 145,000	145,000 - 145,040	144,917 - 144,957	1,60	0,80						x	x	x	x	x
150 - 150	-0,050 - 2,500	150,000 - 150,000	150,000 - 150,040	149,917 - 149,957	1,60	0,80						x	x	x	x	x
155 - 155	-0,050 - 2,500	155,000 - 155,000	155,000 - 155,040	154,917 - 154,957	1,60	0,80						x	x	x	x	x
160 - 160	-0,050 - 2,500	160,000 - 160,000	160,000 - 160,040	159,917 - 159,957	1,60	0,80						x	x	x	x	x
165 - 165	-0,050 - 2,500	165,000 - 165,000	165,000 - 165,040	164,917 - 164,957	1,60	0,80						x	x	x	x	x
170 - 170	-0,050 - 2,500	170,000 - 170,000	170,000 - 170,040	169,917 - 169,957	1,60	0,80						x	x	x	x	x
175 - 175	-0,050 - 2,500	175,000 - 175,000	175,000 - 175,040	174,917 - 174,957	1,60	0,80						x	x	x	x	x
180 - 180	-0,058 - 2,500	180,000 - 180,115	180,000 - 180,046	179,917 - 179,957	1,60	0,80						x	x	x	x	x
185 - 185	-0,058 - 2,500	185,000 - 185,115	185,000 - 185,046	184,904 - 184,950	1,60	0,80						x	x	x	x	x
190 - 190	-0,058 - 2,500	190,000 - 190,115	190,000 - 190,046	189,904 - 189,950	1,60	0,80						x	x	x	x	x
195 - 195	-0,058 - 2,500	195,000 - 195,115	195,000 - 195,046	194,904 - 194,950	1,60	0,80						x	x	x	x	x
200 - 200	-0,058 - 2,500	200,000 - 200,115	200,000 - 200,046	199,904 - 199,950	1,60	0,80						x	x	x	x	x

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