



IBATECH

TECNOLOGIA LINEAR

A solução adequada ao seu projeto.



Qualidade
Comprometimento
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Competitividade

Linha de Rolamentos
Especiais para
Mancalização de Fusos de
Esferas e Mesas Giratórias



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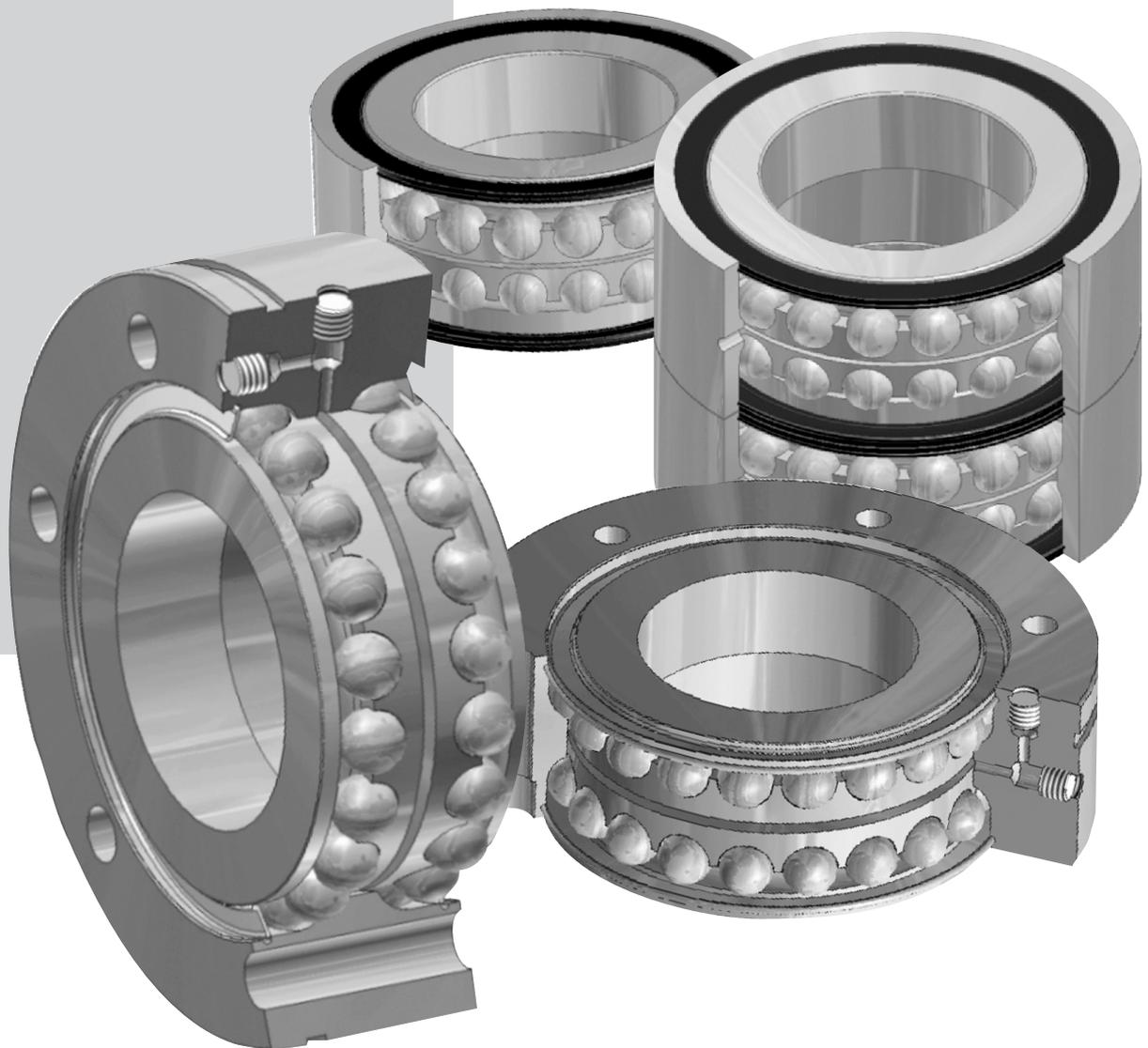
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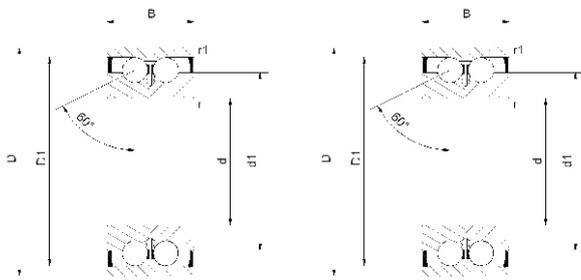
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Rolamentos Axial de Contato Angular de Esferas

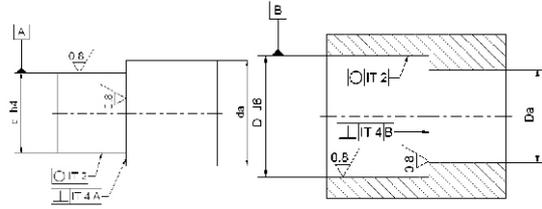
Duplo Ângulo de Contato



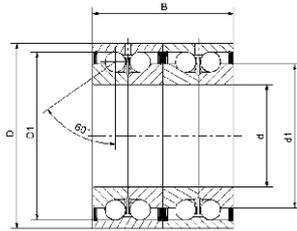


SEL/N...2RS / SEL/N...2RS PE

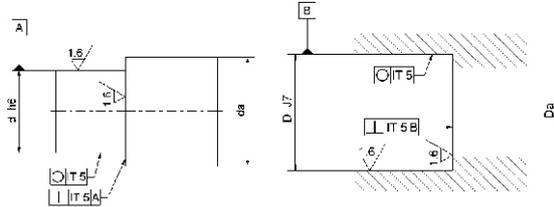
SEL/N...2Z



Housing



SEL/N...2RS 2AP



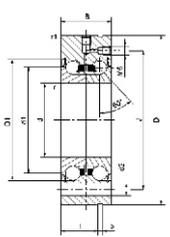
Housing PE

Shaft diam.	Ref.	Mass kg	Dimensions							Axial Load Rating		Speed Ng grease min ⁻¹	Mounting dimensions	
			d ¹	D ²	B ³	d1	D1	r min.	r1 min.	Din. C kN	Stat. Co kN		From	to
6	SEL/N 2412.2RS	0.02	6	19	12	12	16.5	0.3	0.3	4.3	6.1	14000	16	9
	SEL/N 2415.2RS	0.03	6	24	15	14	19.5	0.3	0.6	6.9	8.5	6800	19	9
	SEL/N 2415.2Z	0.03	6	24	15	14	19.5	0.3	0.6	6.9	8.5	12000	19	9
	SEL/N 2415.2RS PE	0.06	6	24	15	14	19.5	0.3	0.6	6.9	8.5	6800	19	9
8	SEL/N 3220.2RS	0.09	8	32	20	19	26.5	0.3	0.6	12.5	16.3	5100	26	12
	SEL/N 3220.2Z	0.09	8	32	20	19	26.5	0.3	0.6	12.5	16.3	9500	26	12
10	SEL/N 3420.2RS	0.1	10	34	20	21	28.5	0.3	0.6	13.4	18.8	4600	28	14
	SEL/N 3420.2Z	0.1	10	34	20	21	28.5	0.3	0.6	13.4	18.8	8600	28	14
	SEL/N 3420.2RS PE	0.1	10	34	20	21	28.5	0.3	0.6	13.4	18.8	4600	28	14
12	SEL/N 4225.2RS	0.2	12	42	25	25	33.5	0.3	0.6	17	24.7	3800	33	16
	SEL/N 4225.2Z	0.2	12	42	25	25	33.5	0.3	0.6	17	24.7	7600	33	16
	SEL/N 4225.2RS PE	0.2	12	42	25	25	33.5	0.3	0.6	17	24.7	3800	33	16
15	SEL/N 4525.2RS	0.21	15	45	25	28	36	0.3	0.6	17.9	28	3500	35	20
	SEL/N 4525.2Z	0.21	15	45	25	28	36	0.3	0.6	17.9	28	7000	35	20
	SEL/N 4525.2RS PE	0.21	15	45	25	28	36	0.3	0.6	17.9	28	3500	35	20
17	SEL/N 4725.2RS	0.22	17	47	25	30	38	0.3	0.6	18.8	31	3300	37	23
	SEL/N 4725.2Z	0.22	17	47	25	30	38	0.3	0.6	18.8	31	6600	37	23
	SEL/N 4725.2RS 2AP	0.44	17	47	50	30	38	0.3	0.6	30.5	62	3300	37	23
	SEL/N 4725.2RS PE	0.22	17	47	25	30	38	0.3	0.6	18.8	31	3300	37	23
20	SEL/N 5228.2RS	0.31	20	52	28	34.5	44	0.3	0.6	26	47	3000	43	25
	SEL/N 5228.2Z	0.31	20	52	28	34.5	44	0.3	0.6	26	47	5400	43	25
	SEL/N 5228.2RS 2AP	0.62	20	52	56	34.5	44	0.3	0.6	42	94	3000	43	25
	SEL/N 5228.2RS PE	0.31	20	52	28	34.5	44	0.3	0.6	26	47	3000	43	25
25	SEL/N 5728.2RS	0.34	25	57	28	40.5	49	0.3	0.6	27.5	55	2600	48	32
	SEL/N 5728.2Z	0.34	25	57	28	40.5	49	0.3	0.6	27.5	55	4700	46	32
	SEL/N 5728.2RS 2AP	0.68	25	57	56	40.5	49	0.3	0.6	44.5	111	2600	48	32
	SEL/N 5728.2RS PE	0.34	25	57	28	40.5	49	0.3	0.6	27.5	55	2600	48	32
30	SEL/N 6228.2RS	0.39	30	62	28	45.5	54	0.3	0.6	29	64	2200	53	40
	SEL/N 6228.2Z	0.39	30	62	28	45.5	54	0.3	0.6	29	64	4300	53	40
	SEL/N 6228.2RS 2AP	0.78	30	62	56	45.5	54	0.3	0.6	47.5	127	2200	53	40
	SEL/N 6228.2RS PE	0.39	30	62	28	45.5	54	0.3	0.6	29	64	2200	53	40
35	SEL/N 7234.2RS	0.51	35	72	34	52	63	0.3	0.6	41	89	2000	62	45
	SEL/N 7234.2Z	0.51	35	72	34	52	63	0.3	0.6	41	89	3800	62	45
	SEL/N 7234.2RS 2AP	1.02	35	72	68	52	63	0.3	0.6	66	177	2000	62	45
40	SEL/N 7534.2RS	0.61	40	75	34	58	68.3	0.3	0.6	43	101	1800	67	50
	SEL/N 7534.2Z	0.61	40	75	34	58	68	0.3	0.6	43	101	3300	67	50
	SEL/N 7534.2RS 2AP	1.22	40	75	68	85	68	0.3	0.6	70	202	1800	67	50
50	SEL/N 9034.2RS	0.88	50	90	34	72	82	0.3	0.6	46.5	126	1500	82	63
	SEL/N 9034.2Z	0.88	50	90	34	72	82	0.3	0.6	46.5	126	3000	82	63
	SEL/N 9034.2RS 2AP	1.76	50	90	68	72	82	0.3	0.6	76	250	1500	82	63
	SEL/N 9034.2RS PE	0.88	50	90	34	72	82	0.3	0.6	46.5	126	1500	82	63
60	SEL/N 11045.2RS	2.2	60	110	45	85	100	0.6	0.6	84	214	2400	100	82
70	SEL/N 12045.2RS	2.4	70	120	45	95	110	0.6	0.6	88	241	2200	110	92
80	SEL/N 13045.2RS	2.7	80	130	45	105	120	0.6	0.6	91	265	2100	120	102
90	SEL/N 15055.2RS	4.5	90	150	55	120	138	0.6	0.6	135	396	1800	138	116
100	SEL/N 16055.2RS	4.9	100	160	55	132	150	0.6	0.6	140	435	1700	150	128

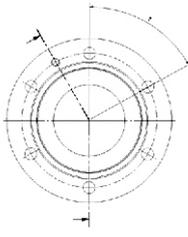
(1) .2RS / .2Z .2RS PE .2RS 2AP
d < 50 tol. -0.005 d < 50 tol. -0.005 d < 50 tol. -0.005
d > 50 tol. -0.008 d > 50 tol. -0.008 d > 50 tol. -0.008

(2) .2RS / .2Z .2RS PE .2RS 2AP
D < 50 tol. -0.010 PN DIN 620 D < 50 tol. -0.010
D > 50 tol. -0.015 D > 50 tol. -0.015 D > 50 tol. -0.015

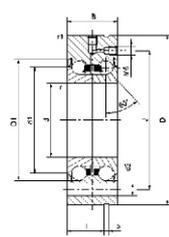
(3) .2RS / .2Z .2RS PE .2RS 2AP
tol. -0.250 tol. -0.250 tol. -0.500



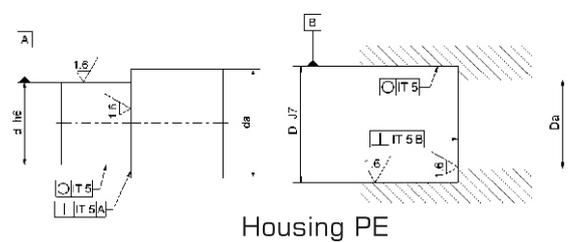
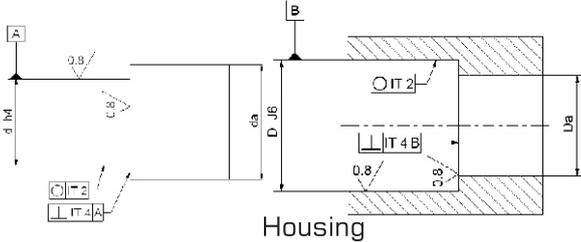
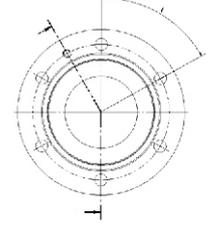
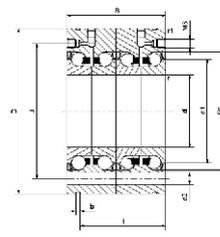
SEL/F...2RS / SEL/F...27(d<50mm)



SEL/F...2Z (60<d <100mm)



SEL/F...2RS 2AP



Bore diam.	Ref.	Peso kg	Dimensions											Pitch t Q.ty xt	Axial Load Rating		Speed ng grease	Mounting dimensions		Screws DIN 912 10,9	
			d ¹	D ²	B ³	d ¹	D ¹	r min.	r ¹ min.	J	d ²	b	l		Din. C kN	Stat. Co kN		From	To	type	Q.ty
12	SEL/F5525. 2RS	0.37	12	55	25	25	33.5	0.3	0.6	42	6.5	3	17	3x120°	17	24.7	3800	33	16	M6	3
	SEL/F5525. 2Z	0.37	12	55	25	25	33.5	0.3	0.6	42	6.5	3	17	3x120°	17	24.7	7650	33	16	M6	3
	SEL/F5525. 2RS PE	0.37	12	55	25	25	33.5	0.3	0.6	42	6.8	3	17	3x120°	17	24.7	3800	33	16	M6	3
15	SEL/F6025. 2RS	0.43	15	60	25	28	36	0.3	0.6	46	6.5	3	17	3x120°	17.9	28	3500	35	20	M6	3
	SEL/F6025. 2Z	0.43	15	60	25	28	36	0.3	0.6	46	6.5	3	17	3x120°	17.9	28	7000	35	20	M6	3
	SEL/F6025. 2RS PE	0.43	15	60	25	28	36	0.3	0.6	46	6.8	3	17	3x120°	17.9	28	3500	35	20	M6	3
17	SEL/F6225. 2RS	0.45	17	62	25	30	38	0.3	0.6	48	6.5	3	17	3x120°	18.8	31	3300	37	23	M6	3
	SEL/F6225. 2Z	0.45	17	62	25	30	38	0.3	0.6	48	6.5	3	17	3x120°	18.8	31	6600	37	23	M6	3
	SEL/F6225. 2RS 2AP	0.90	17	62	50	30	38	0.3	0.6	48	6.5	3	42	6x60°	30.5	62	3300	37	23	M6x60	5
17	SEL/F6225. 2RS PE	0.45	17	62	25	30	38	0.3	0.6	48	6.8	3	17	3x120°	18.8	31	3300	37	23	M6	3
	SEL/F6828. 2RS	0.61	20	68	28	34.5	44	0.3	0.6	53	6.5	3	19	4x90°	26	47	3000	43	25	M6	4
	SEL/F6828. 2Z	0.61	20	68	28	34.5	44	0.3	0.6	53	6.5	3	19	4x90°	26	47	5400	43	25	M6	4
20	SEL/F6828. 2RS AP	1.22	20	68	56	34.5	44	0.3	0.6	53	6.5	3	47	8x45°	42	94	3000	43	25	M6x70	7
	SEL/F6828. 2RS PE	0.61	20	68	28	34.5	44	0.3	0.6	53	6.8	3	19	4x90°	26	47	3000	43	25	M6	4
	SEL/F7528. 2RS	0.72	25	75	28	40.5	49	0.3	0.6	58	6.5	3	19	4x90°	27.5	55	2600	48	32	M6	4
25	SEL/F7528. 2Z	0.72	25	75	28	40.5	49	0.3	0.6	58	6.5	3	19	4x90°	27.5	55	4700	48	32	M6	4
	SEL/F7528. 2RS AP	1.44	25	75	56	40.5	49	0.3	0.6	58	6.5	3	47	8x45°	44.5	111	2600	48	32	M6x70	7
	SEL/F7528. 2RS PE	0.72	25	75	28	40.5	49	0.3	0.6	58	6.8	3	19	4x90°	27.5	55	2600	48	32	M6	4
30	SEL/F8028. 2RS	0.78	30	80	28	45.5	54	0.3	0.6	63	6.5	3	19	6x60°	29	64	2200	53	40	M6	6
	SEL/F8028. 2Z	0.78	30	80	28	45.5	54	0.3	0.6	63	6.5	3	19	6x60°	29	64	4300	53	40	M6	6
	SEL/F8028. 2RS AP	1.56	30	80	56	40.5	49	0.3	0.6	58	6.5	3	47	12x30°	66	177	2200	53	40	M6x70	11
30	SEL/F8028. 2RS PE	0.78	30	80	28	45.5	54	0.3	0.6	63	6.8	3	19	6x60°	29	64	2200	53	40	M6	6
	SEL/F9034. 2RS	1.13	35	90	34	52	63	0.3	0.6	75	8.5	3	25	4x90°	41	89	2000	62	45	M8	4
	SEL/F9034. 2Z	1.13	35	90	34	52	63	0.3	0.6	75	8.5	3	25	4x90°	41	89	3800	62	45	M8	4
35	SEL/F9034. 2RS AP	2.26	35	90	68	52	63	0.3	0.6	75	8.5	3	59	8x45°	66	177	2000	62	45	M8x80	7
	SEL/F9034. 2RS PE	1.13	35	90	34	52	63	0.3	0.6	75	8.8	3	25	4x90°	41	89	2000	62	45	M8	4
	SEL/F10034. 2RS	1.46	40	100	34	58	68	0.3	0.6	80	8.5	3	25	4x90°	43	101	1800	67	50	M8	4
40	SEL/F10034. 2Z	1.46	40	100	34	58	68	0.3	0.6	80	8.5	3	25	4x90°	43	101	3300	67	50	M8	4
	SEL/F10034. 2RS AP	2.92	40	100	68	85	68	0.3	0.6	80	8.5	3	59	8x45°	70	202	1800	67	50	M8x80	7
	SEL/F10034. 2RS PE	1.46	40	100	34	58	68	0.3	0.6	80	8.8	3	25	4x90°	43	101	1800	67	50	M8	4
50	SEL/F11534. 2RS	1.86	50	115	34	72	82	0.3	0.6	94	8.5	3	25	6x60°	46.5	126	1500	82	53	M8	6
	SEL/F11534. 2Z	1.86	50	115	34	72	82	0.3	0.6	94	8.5	3	25	6x60°	46.5	126	3000	82	53	M8	6
	SEL/F11534. 2RS AP	3.72	50	115	68	72	82	0.3	0.6	94	8.5	3	59	12x30°	76	250	1500	82	63	M8x80	11
50	SEL/F11534. 2RS PE	1.86	50	115	34	72	82	0.3	0.6	94	8.8	3	25	6x60°	46.5	126	1500	82	63	M8	6
60	SEL/F14545. 2Z	4.3	60	145	45	85	100	0.6	0.6	120	8.5	3	35	8x45°	84	214	2400	100	82	M8	8
70	SEL/F15545. 2Z	4.9	70	155	45	95	110	0.6	0.6	130	8.5	3	35	8x45°	88	241	2200	110	92	M8	8
80	SEL/F16545. 2Z	5.3	80	165	45	105	120	0.6	0.6	140	8.5	3	35	8x45°	91	264	2100	120	102	M8	8
90	SEL/F19055. 2Z	8.7	90	190	55	120	138	0.6	0.6	165	10.5	3	45	8x45°	435	395	1800	138	116	M10	8
100	SEL/F20055. 2Z	9.3	100	200	55	132	150	0.6	0.6	175	10.5	3	45	8x45°	140	435	1700	150	128	M10	8

(1)	.2RS / .2Z	.2RS PE	.2RS 2AP
	d<50 tol. -0.005	tol. -0.01	d<50 tol. -0.005
	d>50 tol. -0.008		d>50 tol. -0.008

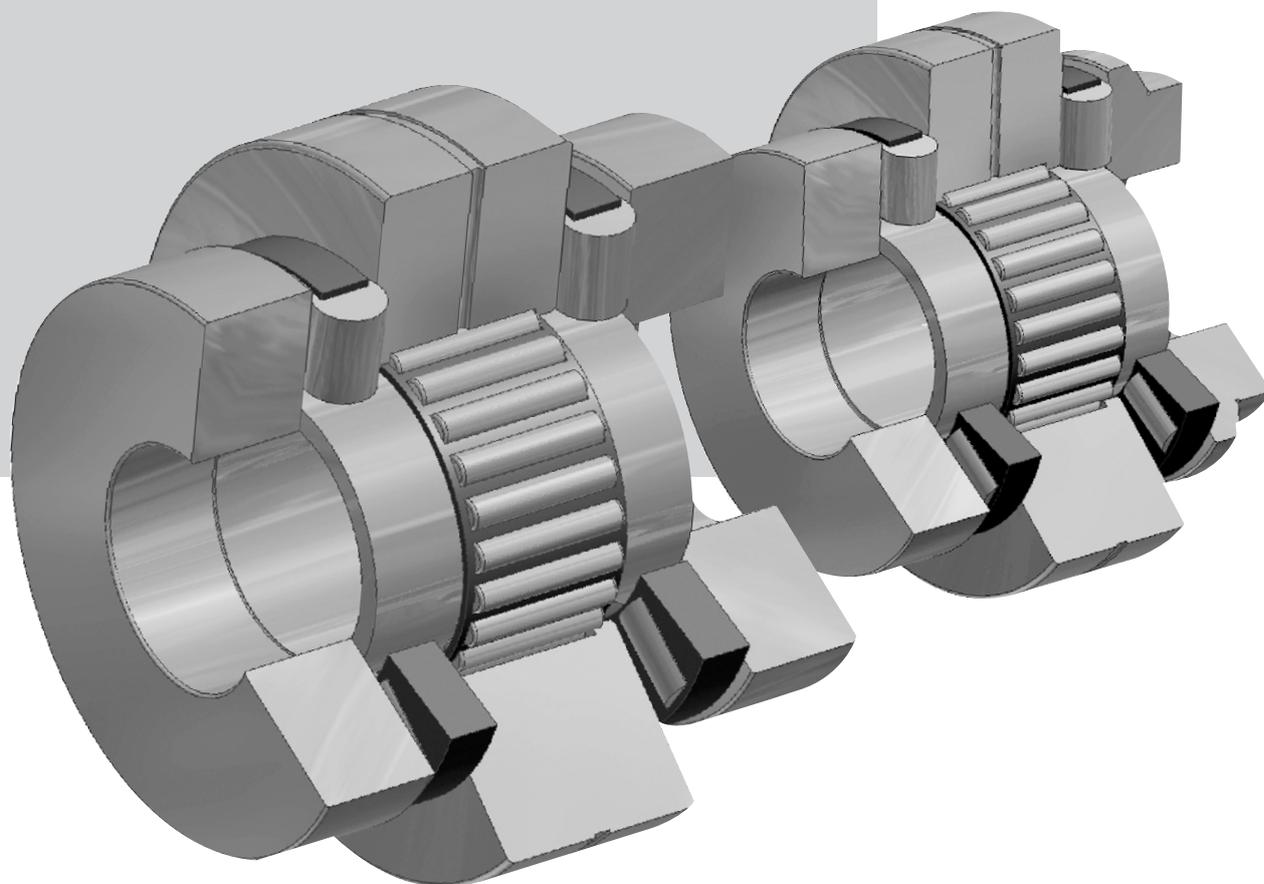
(2)	.2RS / .2Z	.2RS PE	.2RS 2AP
	D<50 tol. -0.010	D>50-80 tol. -0.013	D<50 tol. -0.010
	D>50 tol. -0.015	D>50 tol. -0.015	D>50 tol. -0.015

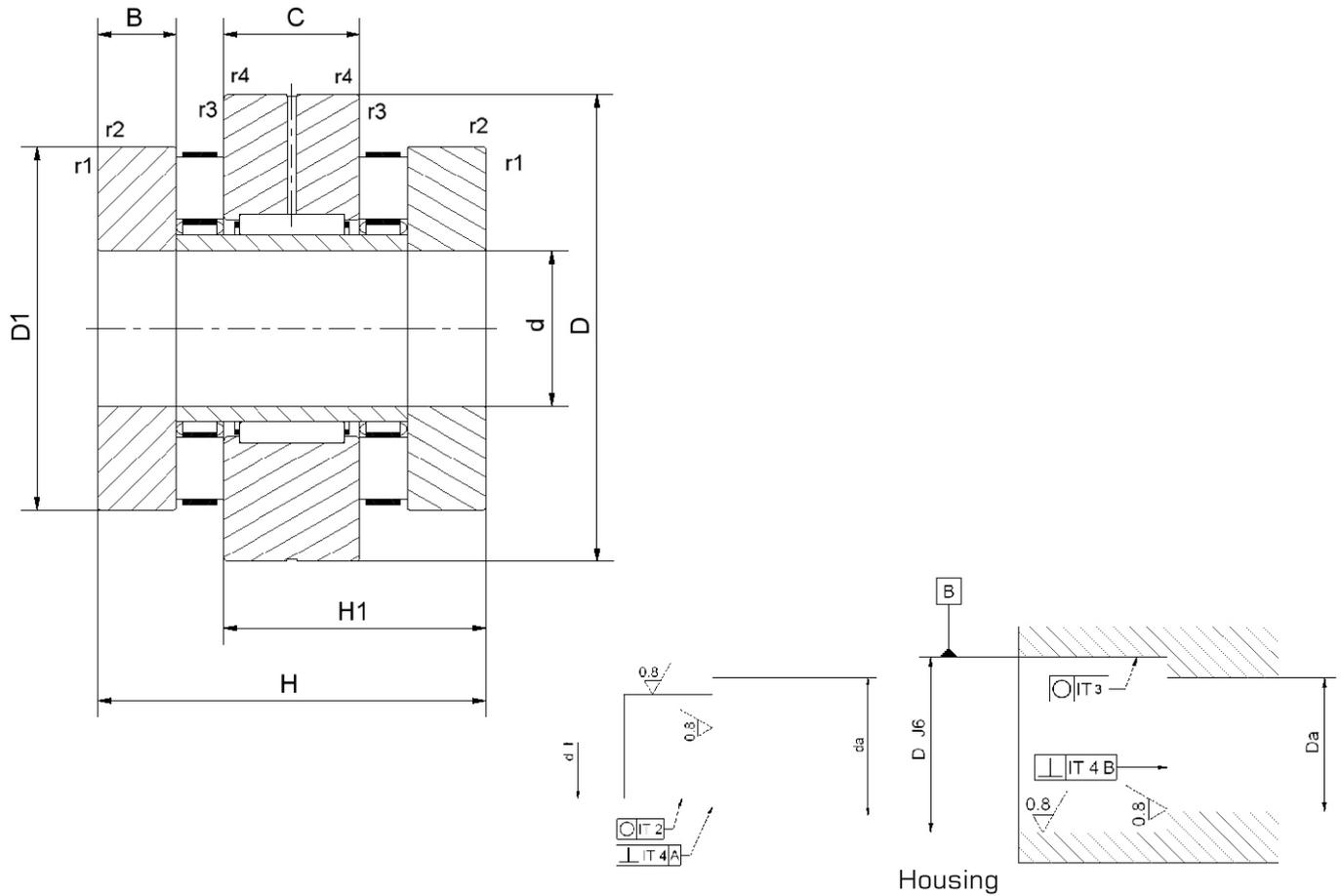
(3)	.2RS / .2Z	.2RS PE	.2RS 2AP
	tol. -0.250	tol. -0.250	tol. -0.500



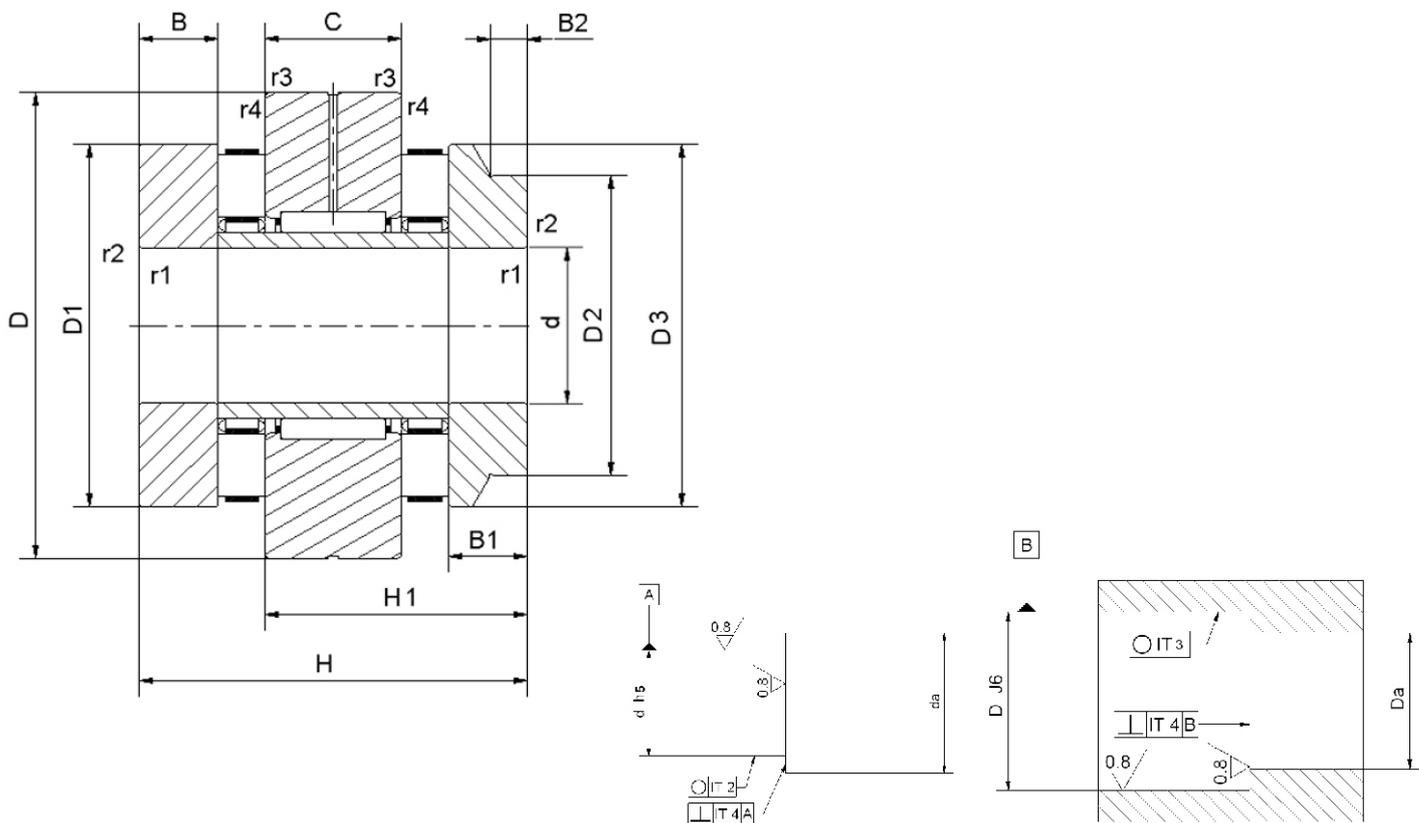
Rolamento Radial Axial de Agulhas e Rolos Cilíndricos

Série Leve





Ref.	Overaill dimensions			Load ratings				Basic speed		Dimensions					
				Axial		Radial				D1 mm	B mm	C mm	H1 mm	r _{1,2} mm	r _{3,4} mm
	Din. C kN	Stat. Co kN	Din. C kN	Stat. Co kN	Grense ng mim-1	Oil ng mim-1									
SEL/Z 1545	15	45	40	24.9	53	13	22.4	2200	8500	35	7.5	16	28	0.3	0.6
SEL/Z 1747	17	47	43	26	57	14	19.9	2100	7800	38	9	16	29.5	0.3	0.6
SEL/Z 2052	20	52	46	25	69.5	15.4	25	2200	6700	42	10	16	31	0.3	0.6
SEL/Z 2562	20	62	60	64	141	22.6	36	1500	6000	47	12.5	20	40	0.3	0.6
SEL/Z 2057	25	57	50	33.5	87	22.9	39	1900	6000	52	10	20	35	0.3	0.6
SEL/Z 2572	25	72	60	62	190	24.6	45	1500	4800	62	12.5	20	40	0.3	0.6
SEL/Z 3062	30	62	50	29	93	24.6	45	1800	5600	52	10	20	35	0.3	0.6
SEL/Z 3080	30	80	66	83	255	26.4	51	1300	4300	68	14	20	43	0.3	0.6
SEL/Z 3570	35	70	54	42.5	137	26.4	51	1600	5000	60	11	20	37	0.3	0.6
SEL/Z 3585	35	85	66	89.5	270	28.1	57	1300	4300	73	14	20	43	0.3	0.6
SEL/Z 4075	40	75	54	45	153	28.1	57	1500	4800	65	11	20	37	0.3	0.6
SEL/Z 4090	40	90	75	91.5	300	38	80	1100	3800	78	16	25	50	0.3	0.6
SEL/Z 4580	45	80	60	47.5	166	38	80	1400	4500	70	11.5	25	42.5	0.3	0.6
SEL/Z 45105	45	105	82	122	390	40.2	88	950	3400	90	17.5	25	53.5	0.3	0.6
SEL/Z 5090	50	90	60	69.5	285	40.2	88	1300	4300	78	11.5	25	42.5	0.3	0.6
SEL/Z 50110	50	110	82	137	465	41.8	96.5	900	3200	98	17.5	25	53.5	0.3	0.6
SEL/Z 55115	55	115	82	140	490	41.8	96.5	900	3200	100	17.5	25	53.5	0.3	0.6
SEL/Z 60120	60	120	82	146	530	44.6	98	850	3000	105	17.5	25	53.5	0.3	0.6
SEL/Z 65125	65	125	82	172	500	54	104	900	2600	110	17.5	25	53.5	0.3	0.6
SEL/Z 70130	70	130	82	201	630	56	119	800	2400	115	17.5	25	53.5	0.3	0.6
SEL/Z 75155	75	155	100	290	890	75	139	700	2100	135	21	30	65	0.3	1
SEL/Z 90180	90	180	110	325	1030	101	218	700	1800	160	22.5	35	72.5	0.3	1

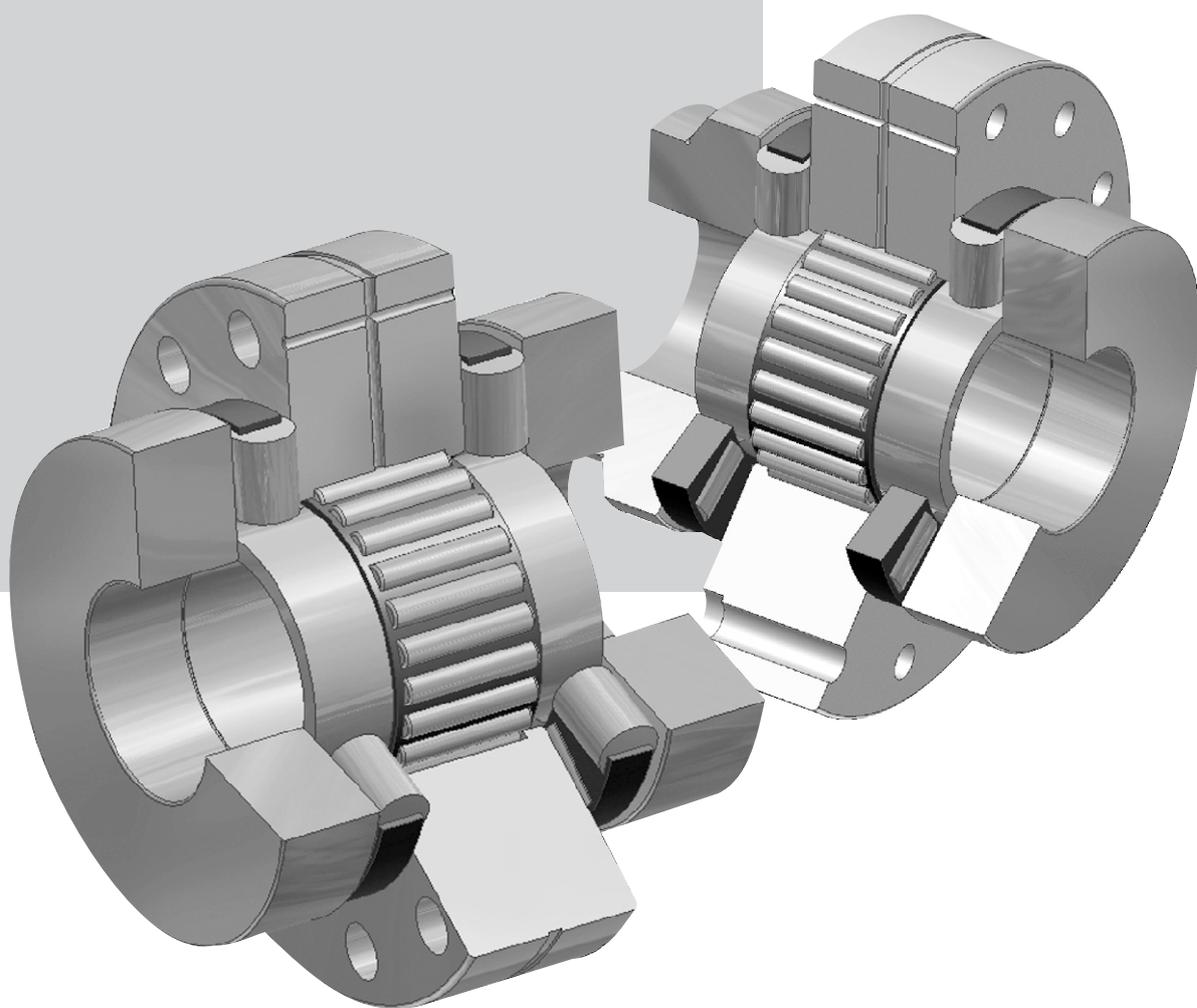


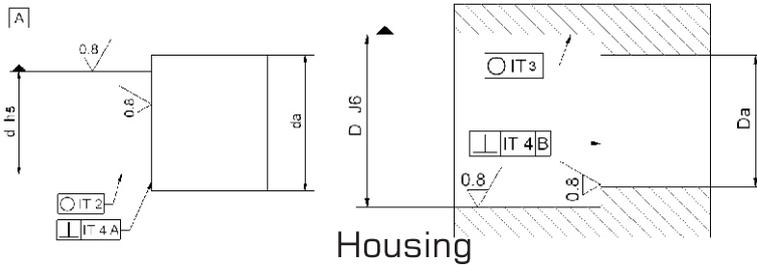
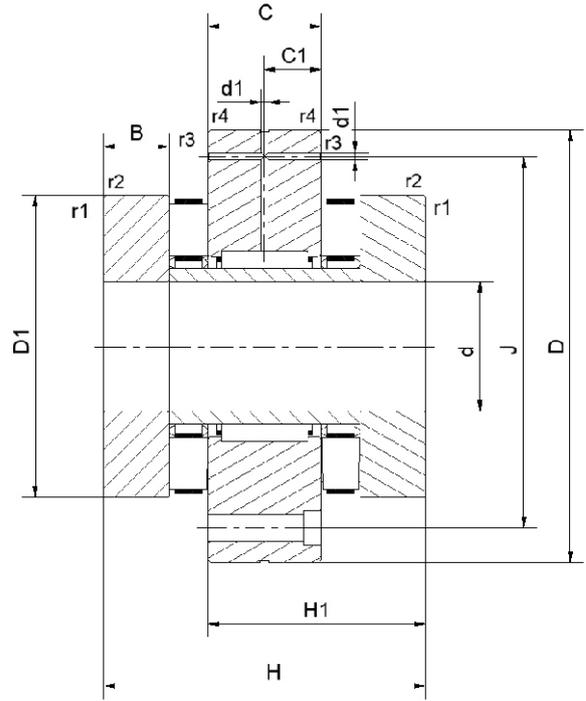
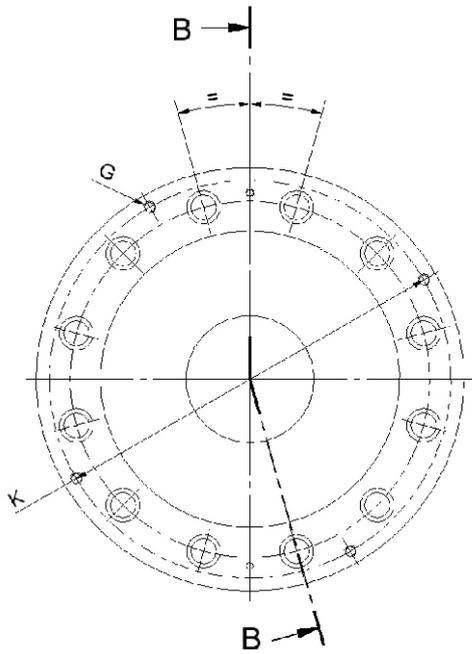
Housing

Ref.	Overall dimensions			Load ratings				Basic speed		Dimensions									
				Axial		Radial				D1	D2	D3	B	D1	D2	C	H1	r _{1,2}	r _{3,4}
	d mm	D mm	H mm	Din. C kN	Stat. Co kN	Din. C kN	Stat. Co kN	Grease ng min-1	Oil ng min-1	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SEL/ZL 1545	15	45	40	24.9	53	13	22.4	2200	8500	35	24	34	7.5	20.5	11	16	28	0.3	0.6
SEL/ZL 1747	17	47	43	26	57	14	19.9	2100	7800	38	28	38	9	23	11	16	29.5	0.3	0.6
SEL/ZL 2052	20	52	46	25	69.5	15.4	25	2200	6700	42	30	40	10	24	11	16	31	0.3	0.6
SEL/ZL 2562	20	62	60	64	141	22.6	36	1500	6000	47	40	50	12.5	27.5	11	20	40	0.3	0.6
SEL/ZL 2057	25	57	50	33.5	87	22.9	39	1900	6000	52	36	45	10	25	11	20	35	0.3	0.6
SEL/ZL 2572	25	72	60	62	190	24.6	45	1500	4800	62	48	60	12.5	27.5	11	20	40	0.3	0.6
SEL/ZL 3062	30	62	50	29	93	24.6	45	1800	5600	52	40	50	10	25	11	20	35	0.3	0.6
SEL/ZL 3080	30	80	66	83	255	26.4	51	1300	4300	68	52	66	14	30	12	20	43	0.3	0.6
SEL/ZL 3570	35	70	54	42.5	137	26.4	51	1600	5000	60	45	58	11	27	12	20	37	0.3	0.6
SEL/ZL 3585	35	85	66	89.5	270	28.1	57	1300	4300	73	60	73	14	30	12	20	43	0.3	0.6
SEL/ZL 4075	40	75	54	45	153	28.1	57	1500	4800	65	50	63	11	27	12	20	37	0.3	0.6
SEL/ZL 4090	40	90	75	91.5	300	38	80	1100	3800	78	60	78	16	34	12	25	50	0.3	0.6
SEL/ZL 4580	45	80	60	47.5	166	38	80	1400	4500	70	56	68	11.5	26.5	12	25	42.5	0.3	0.6
SEL/ZL 45105	45	105	82	122	390	40.2	88	950	3400	90	70	88	17.5	38.5	14	25	53.5	0.3	0.6
SEL/ZL 5090	50	90	60	69.5	285	40.2	88	1300	4300	78	60	78	11.5	29.5	12	25	42.5	0.3	0.6
SEL/ZL 50110	50	110	82	137	465	41.8	96.5	900	3200	98	75	93	17.5	38.5	17	25	53.5	0.3	0.6
SEL/ZL 55115	55	115	82	140	490	41.8	96.5	900	3200	100	80	98	17.5	38.5	17	25	53.5	0.3	0.6
SEL/ZL 60120	60	120	82	146	530	44.6	98	850	3000	105	90	105	17.5	38.5	16	25	53.5	0.3	0.6
SEL/ZL 65125	65	125	82	172	500	54	104	900	2600	110	90	108	17.5	38.5	16	25	53.5	0.3	0.6
SEL/ZL 70130	70	130	82	201	630	56	119	800	2400	115	100	115	17.5	38.5	16	25	53.5	0.3	0.6
SEL/ZL 75155	75	155	100	290	890	75	139	700	2100	135	115	135	21	46	16	30	65	0.3	1
SEL/ZL 90180	90	180	110	325	1030	101	218	700	1800	160	130	158	22.5	47.5	16	35	72.5	0.3	1

Rolamento Radial Axial de Agulhas e Rolos Cilíndricos

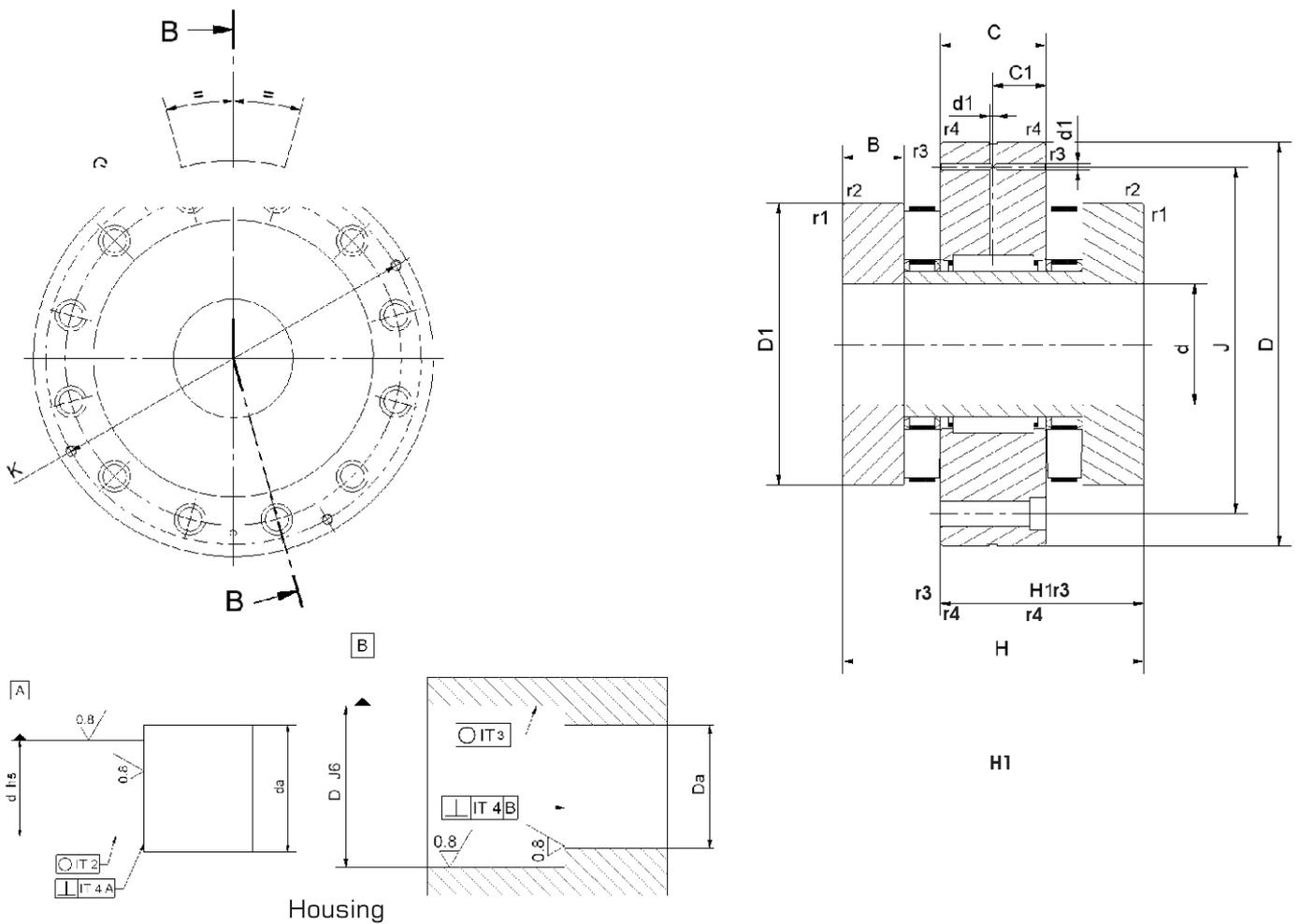
Série Pesada





Housing

Bore diam	Overall dimensions			Load ratings				Basic speed		Dimensions										
				Radial		Axial		Gre n g mim-1	Oil ng mim-1	D1	B	C	D3 C1	H1	J	d1	r _{1,2}	r _{3,4}	K	G
	Din. C kN	Stat. Co kN	Din. C kN	Stat. Co kN	d	D	H													
SEL/ZF 1560	15	60	40	13	17.5	24.9	53	2200	8500	35	7.5	14	8	26	46	3.2	0.3	0.6	52.4	M3
SEL/ZF 1762	17	62	43	14	19.9	26	57	2100	7800	38	9	14	8	27.5	48	3.2	0.3	0.6	54.4	M3
SEL/ZF 2068	20	68	46	22.6	36	33.5	76	2000	7000	42	10	14	8	29	53	3.2	0.3	0.6	60.4	M3
SEL/ZF 2575	20	80	60	22.6	36	33.5	86	1900	6000	47	10	18	10	33	58	3.2	0.3	0.6	73.4	M3
SEL/ZF 2080	25	75	50	24.3	41.5	64	141	1500	6000	52	12.5	18	10	38	63	3.2	0.3	0.6	67.4	M3
SEL/ZF 2590	25	90	60	24.3	41.5	39	101	1700	4800	62	12.5	18	10	33	73	3.2	0.3	0.6	81	M3
SEL/ZF 3080	30	80	50	24.3	41.5	39	163	1800	5600	52	10	18	10	33	63	3.2	0.3	0.6	73.4	M3
SEL/ZF 30105	30	105	66	26	47	56	148	1700	4800	68	11	18	10	41	85	3.2	0.3	0.6	95	M4
SEL/ZF 3590	35	90	54	26	51	42.5	137	1600	5000	60	11	18	10	35	73	3.2	0.3	0.6	80	M4
SEL/ZF 35110	35	110	66	27.5	53	105	265	1250	4000	73	14	18	10	35	88	3.2	0.3	0.6	101	M3
SEL/ZF 40100	40	100	54	27.5	53	56	163	1200	3700	65	11	18	10	35	80	3.2	0.3	0.6	90	M4
SEL/ZF 40115	40	115	75	38	74	117	315	1200	3600	78	16	22.5	12.5	48.5	94	3.2	0.3	0.6	106	M3
SEL/ZF 45105	45	105	60	38	74	61	177	1500	4000	70	11.5	22.5	12.5	40	85	6	0.3	0.6	95	M4
SEL/ZF 45130	45	130	82	40.2	82	154	405	1100	3300	90	15.5	22.5	12.5	51	105	6	0.3	0.6	120	M4
SEL/ZF 50115	50	115	60	40.2	82	90	300	1200	3600	78	11.5	22.5	12.5	40	94	6	0.3	0.6	106	M3
SEL/ZF 50140	50	140	82	42	90	172	480	1100	3100	98	17.5	22.5	12.5	51	113	6	0.3	0.6	124.5	M5
SEL/ZF 55145	55	145	82	44	98	177	500	1000	2200	100	17.5	22.5	12.5	51	118	6	0.3	0.6	132.5	M5
SEL/ZF 60150	60	150	82	44.5	92	123	187	950	2700	105	17.5	22.5	12.5	51	123	6	0.3	0.6	137.5	M5
SEL/ZF 65155	65	155	82	54	104	172	500	900	2600	110	17.5	22.5	12.5	51	128	6	0.3	0.6	142.5	M5
SEL/ZF 70160	70	160	82	56	119	201	630	800	2400	115	17.5	22.5	12.5	51	133	6	0.3	0.6	147.5	M5
SEL/ZF 75185	75	185	100	75	139	290	890	700	2100	135	21	27	15	61	155	6	0.3	1	172.5	M5
SEL/ZF 90120	90	210	110	101	218	325	1030	700	1800	160	22.5	32	17.5	69.5	180	8	0.3	1	194	M5

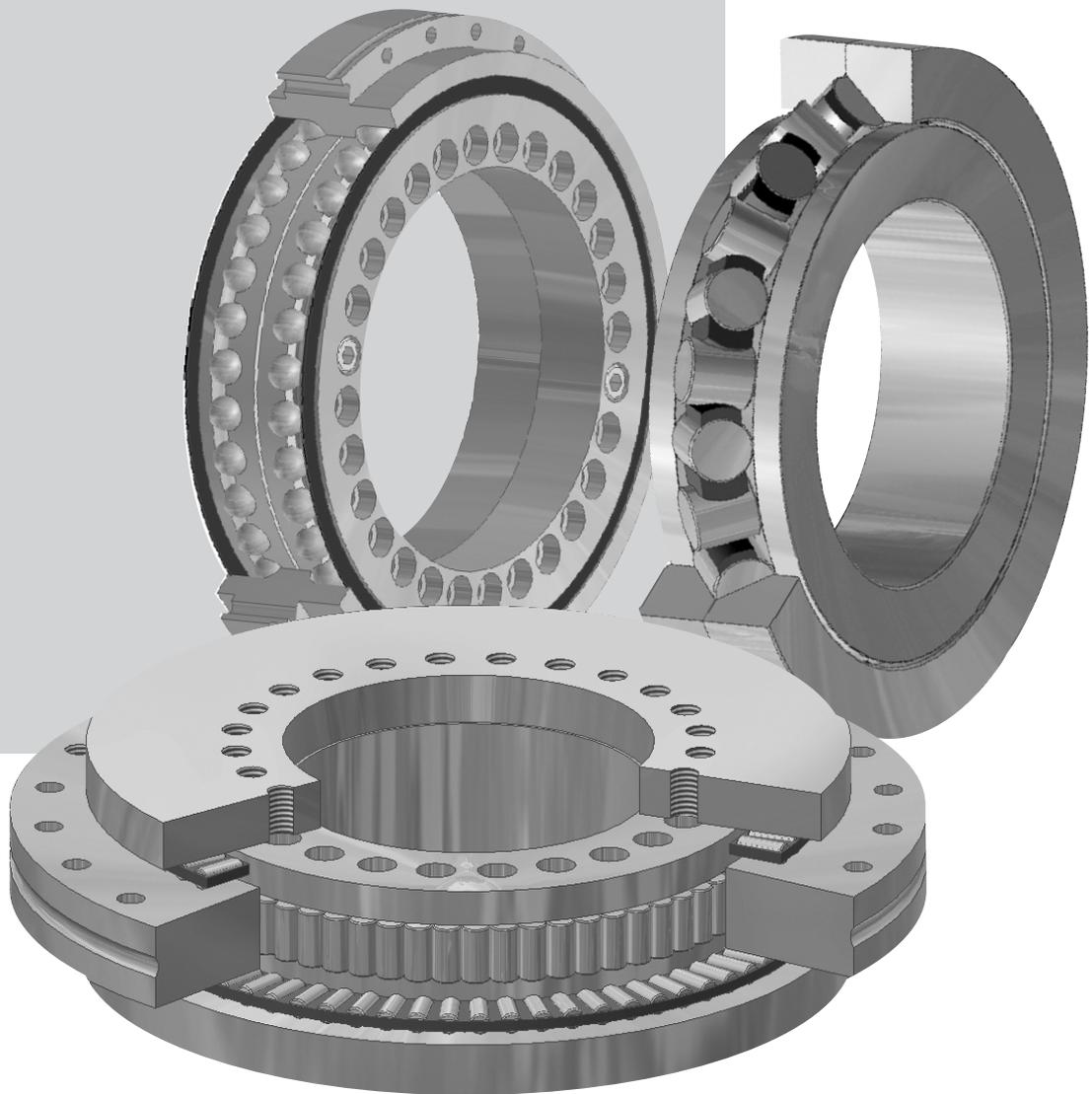


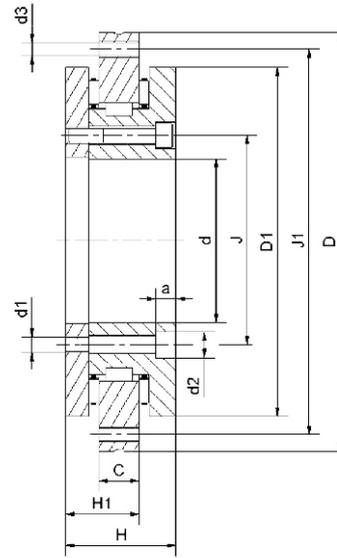
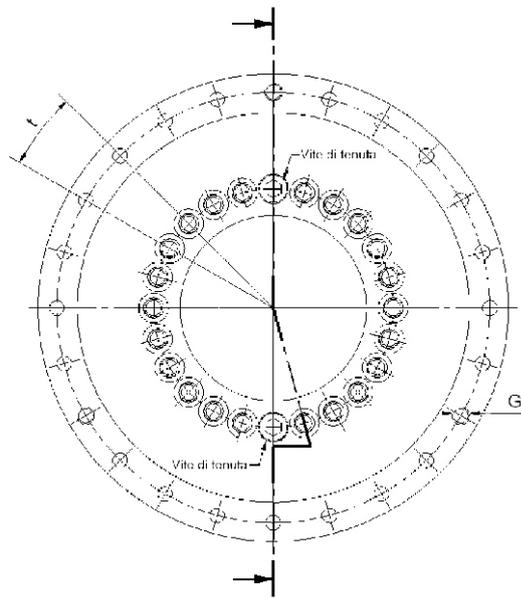
Bore diam	Overall dimensions			Load ratings				Basic speed ng min ⁻¹		Dimensions														
				Axial		Radial				D1	D2	D3	B	B1	B2	C	C1	H1	J	d1	r _{1,2}	r _{3,4}	K	G
	d mm	D mm	H mm	Din. C kN	Stat. Co kN	Din. C kN	Stat. Co kN	Grease ng min ⁻¹	Oil ng min ⁻¹	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SEL/ZFL 1560	15	60	40	24.9	53	13	17.5	2200	8500	35	24	34	7.5	20.5	11	14	8	26	46	3.2	0.3	0.6	52.4	M3
SEL/ZFL 1762	17	62	43	26	57	14	19.9	2100	7800	38	28	38	9	23	11	14	8	27.5	48	3.2	0.3	0.6	54.4	M3
SEL/ZFL 2068	20	68	46	33.5	76	22.6	36	2000	7000	42	30	40	10	24	11	14	8	29	53	3.2	0.3	0.6	60.4	M3
SEL/ZFL 2575	20	80	60	33.5	86	22.6	36	1900	6000	47	36	45	10	25	11	18	10	33	58	3.2	0.3	0.6	73.4	M3
SEL/ZFL 2080	25	75	50	64	141	24.3	41.5	1500	6000	52	40	50	12.5	27.5	11	18	10	38	63	3.2	0.3	0.6	67.4	M3
SEL/ZFL 2590	25	90	60	39	101	24.3	41.5	1700	4800	62	48	60	12.5	27.5	11	18	10	33	73	3.2	0.3	0.6	81	M3
SEL/ZFL 3080	30	80	50	39	163	24.3	41.5	1800	5600	52	40	50	10	25	11	18	10	33	63	3.2	0.3	0.6	73.4	M3
SEL/ZFL 30105	30	105	66	56	148	26	47	1700	4800	68	52	66	11	30	12	18	10	41	85	3.2	0.3	0.6	95	M4
SEL/ZFL 3590	35	90	54	42.5	137	26	51	1600	5000	60	45	58	11	27	12	18	10	35	73	3.2	0.3	0.6	80	M4
SEL/ZFL 35110	35	110	66	105	265	27.5	53	1250	4000	73	60	73	14	30	12	18	10	35	88	3.2	0.3	0.6	101	M3
SEL/ZFL 40100	40	100	54	56	163	27.5	53	1200	3700	65	50	63	11	27	12	18	10	35	80	3.2	0.3	0.6	90	M4
SEL/ZFL 40115	40	115	75	117	315	38	74	1200	3600	78	60	78	16	34	12	22.5	12.5	48.5	94	3.2	0.3	0.6	106	M3
SEL/ZFL 45105	45	105	60	61	177	38	74	1500	4000	70	56	68	11.5	26.5	12	22.5	12.5	40	85	6	0.3	0.6	95	M4
SEL/ZFL 45130	45	130	82	154	405	40.2	82	1100	3300	90	70	88	15.5	38.5	14	22.5	12.5	51	105	6	0.3	0.6	120	M4
SEL/ZFL 50110	50	115	60	90	300	40.2	82	1200	3600	78	60	78	11.5	29.5	12	22.5	12.5	40	94	6	0.3	0.6	106	M3
SEL/ZFL 50140	50	140	82	172	480	42	90	1100	3100	98	75	93	17.5	38.5	14	22.5	12.5	51	113	6	0.3	0.6	124.5	M5
SEL/ZFL 55145	55	145	82	177	500	44	98	1000	2200	100	80	98	17.5	38.5	14	22.5	12.5	51	118	6	0.3	0.6	132.5	M5
SEL/ZFL 60150	60	150	82	123	187	44.5	92	950	2700	105	90	105	17.5	38.5	16	22.5	12.5	51	123	6	0.3	0.6	137.5	M5
SEL/ZFL 65155	65	155	82	172	500	54	104	900	2600	110	90	108	17.5	38.5	16	22.5	12.5	51	128	6	0.3	0.6	142.5	M5
SEL/ZFL 70160	70	160	82	201	630	56	119	800	2400	115	100	115	17.5	38.5	16	22.5	12.5	51	133	6	0.3	0.6	147.5	M5
SEL/ZFL 75185	75	185	100	290	890	75	139	700	2100	135	115	135	21	46	16	27	15	61	155	6	0.3	1	172.5	M5
SEL/ZFL 90120	90	210	110	325	1030	101	218	700	1800	160	130	158	22.5	47.5	16	32	17.5	69.5	180	8	0.3	1	194	M5

Rolamento Axial

Rolamento Axial de Contato Angular de Esferas

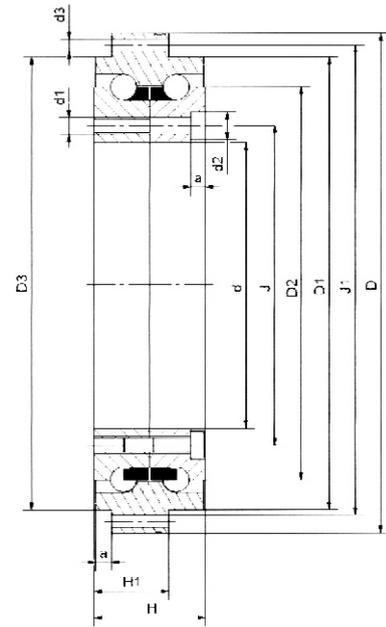
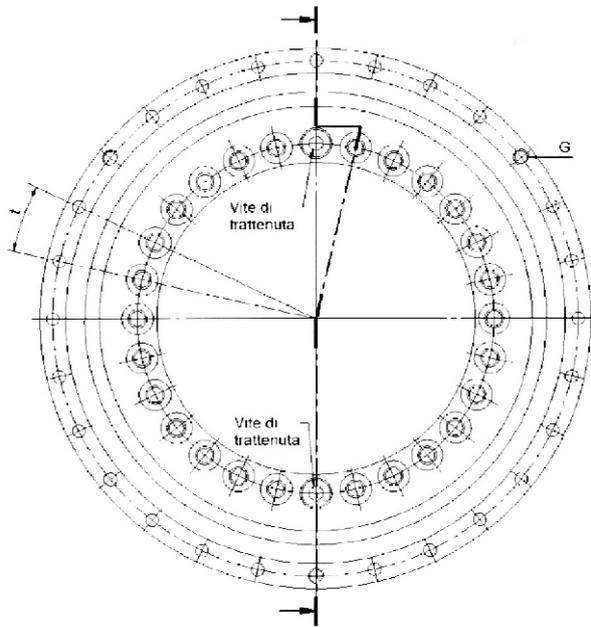
Rolamento de Rolos Cruzados





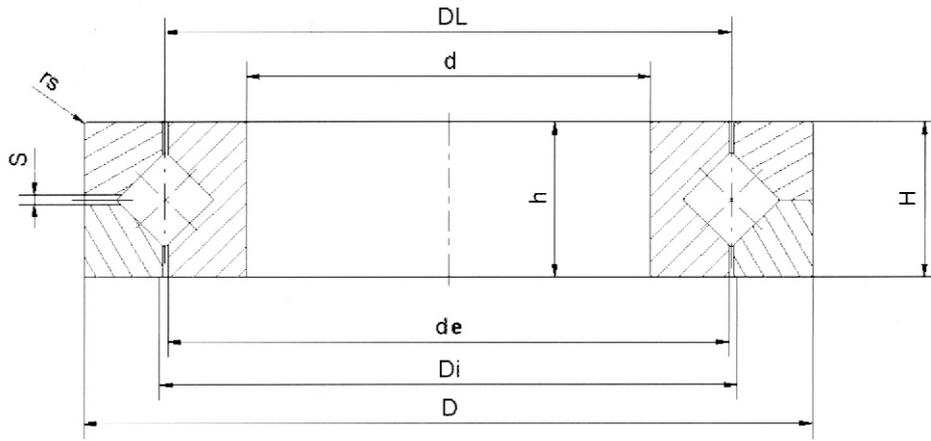
Bore diam.	Ref.	Mass kg	Dimensions								Number of fixing holes					
			d	D	H	H1	C	D1	J	J1	Inner ring			Outer ring		
											d1	d2	a	Q.ty	d3	Q.ty
50	SEL/Y 50	1.6	50	126	30	20	10	105	63	116	5.6	-	-	10	5.6	12
80	SEL/Y 80	2.4	80	146	35	23.35	12	130	92	138	5.6	10	4	10	5.6	12
100	SEL/Y 100	4.1	100	185	38	25	12	160	112	170	5.6	10	5.4	16	5.6	15
120	SEL/Y 120	5.3	120	210	40	26	12	185	135	195	7	11	6.2	22	7	21
150	SEL/Y 150	6.2	150	240	40	26	12	214	165	225	7	11	6.2	34	7	33
180	SEL/Y 180	7.7	180	280	43	29	15	244	194	260	7	11	6.2	46	7	45
200	SEL/Y 200	9.7	200	300	45	30	15	274	215	285	7	11	6.2	46	7	45
260	SEL/Y 260	18.3	260	385	55	36.5	18	345	280	365	9.3	15	8.2	34	9.3	33
325	SEL/Y 325	25	325	450	60	40	20	415	342	430	9.3	15	8.2	34	9.3	33
395	SEL/Y 395	33	395	525	65	42.5	20	486	415	505	9.3	15	8.2	46	9.3	45
460	SEL/Y 460	45	460	600	70	46	22	560	482	580	9.3	15	8.2	46	9.3	45
580	SEL/Y 580	89	580	750	90	60	30	700	610	720	11.4	18	11	46	11.4	42
650	SEL/Y 650	170	650	870	122	78	34	800	680	830	14	20	13	46	14	42

Bore diam.	Number of retaining screws	Pitch t Q.ty xt	Number of extraction threads		Screw tightening torque Ma Nm	Load ratings				Limiting speed ng min ⁻¹
			G	Q.ty		Axial		Radial		
						Dim. C kN	Stat. Co kN	Dim. C kN	Stat. Co kN	
50	2	12x30°	-	-	8.5	56	280	28.5	49.5	440
80	2	12x30°	-	-	8.5	38	158	44	98	350
100	2	18x20°	M5	3	8.5	73	370	52	108	280
120	2	24x15°	M8	3	14	80	445	70	148	230
150	2	36x10°	M8	3	14	85	510	77	179	210
180	2	48x7.5°	M8	3	14	92	580	83	209	190
200	2	48x7.5°	M8	3	14	98	650	89	236	170
260	2	36x10°	M12	3	34	109	810	102	310	130
325	2	36x10°	M12	3	34	186	1710	134	415	110
395	2	48x7.5°	M12	3	34	202	2012	133	435	90
460	2	48x7.5°	M12	3	34	217	2300	187	650	80
580	2	48x7.5°	M12	6	68	390	3600	211	820	60
650	2	48x7.5°	M12	6	116	495	5200	415	1500	55



Bore diam.	Raf.	Mass kg	Dimensions									
			d	D	H	H1	D1	D2	D3	J	J1	a
100	SEL/D 100	4.5	100	185	38	25	160	136	158	112	170	5.4
120	SEL/D 120	6	120	210	40	26	184	159	181	135	195	6.2
150	SEL/D 150	7.5	150	240	40	26	214	188	211	165	225	6.2
200	SEL/D 200	11	200	300	45	30	274	243	271	215	285	6.2
260	SEL/D 260	22	260	385	55	36.5	345	313	348	280	265	6.2
325	SEL/D 325	28	325	450	60	40	415	380	413	342	430	8.2
395	SEL/D 395	39	395	525	65	42.5	486	450	488	415	505	8.2
460	SEL/D 460	50	460	600	70	46	560	520	563	482	580	8.2

Bore diam.	Inner Ring				Outer Ring				Pitch t1) Q.ty xt	Screw tightening torque Ma 2) Nm	Axial load rating		limiting speed ng min ⁻¹
	Number of fixing holes			N. of retaining screws Q.ty	Screws		Number of extraction threads				Din. C kN	Stat. Co kN	
	d1	d2	Q.ty d1		d3	Q.ty	G	Q.ty					
100	5.6	10	16	2	5.6	15	M5	3	18x120°	8.5	64	248	1400
120	7	11	22	2	7	21	M8	3	24x15°	14	76	315	1200
150	7	11	34	2	7	33	M8	3	36x10°	14	81	380	1000
200	7	11	46	2	7	45	M8	3	48x7.5°	14	112	580	800
260	9.3	15	34	2	9.3	33	M12	3	36x10°	34	162	920	600
325	9.3	15	34	2	9.3	33	M12	3	36x10°	34	172	1110	500
395	9.3	15	46	2	9.3	45	M12	3	48x7.5°	34	214	1470	400
460	9.3	15	46	2	9.3	45	M12	3	48x7.5°	34	255	1860	350



Bore diam.	Dimensions										Load ratings				
	DL mm	d mm	D mm	H(1) mm		H(2) mm		de mm	Di mm	rs mm	S(3) mm	Axial		Radial	
												Din. C kN	Stat. Co kN	Din. C kN	Stat. Co kN
SEL/X 1814	80	70 ^{+0.004} / _{-0.015}	90 ^{-0.022}	10 ^{-0.100}	10 ^{-0.010}	79.5	80.5	0.6	1.2	18	60	12	30		
SEL/X 1818	102	90 ^{+0.004} / _{-0.018}	115 ^{-0.022}	13 ^{-0.120}	13 ^{-0.010}	101.5	102.5	1	2	26	96	17	47		
SEL/X 1820	112	100 ^{+0.004} / _{-0.018}	125 ^{-0.025}	13 ^{-0.120}	13 ^{-0.010}	111.5	112.5	1	2	28	106	18	52		
SEL/X 1824	135	120 ^{+0.004} / _{-0.018}	150 ^{-0.025}	16 ^{-0.120}	16 ^{-0.010}	134.4	135.6	1	2	41	153	26	75		
SEL/X 1828	157	140 ^{+0.004} / _{-0.021}	175 ^{-0.025}	18 ^{-0.120}	18 ^{-0.010}	156.3	157.7	1.1	2.5	64	234	41	116		
SEL/X 1832	180	160 ^{+0.004} / _{-0.021}	200 ^{-0.029}	20 ^{-0.120}	20 ^{-0.025}	179.2	180.8	1.1	2.5	69	272	44	133		
SEL/X 1836	202	180 ^{+0.004} / _{-0.021}	225 ^{-0.029}	22 ^{-0.130}	22 ^{-0.025}	201.2	202.8	1.1	2.5	98	381	63	187		
SEL/X 1840	225	200 ^{+0.005} / _{-0.024}	250 ^{-0.029}	24 ^{-0.130}	24 ^{-0.025}	224.2	225.8	1.5	2.5	105	425	68	208		
SEL/X 1848	270	240 ^{+0.005} / _{-0.024}	300 ^{-0.032}	28 ^{-0.130}	28 ^{-0.025}	269.2	270.8	2	2.5	149	612	95	300		
SEL/X 1860	340	300 ^{+0.005} / _{-0.027}	380 ^{-0.036}	38 ^{-0.140}	38 ^{-0.050}	339.2	340.8	2.1	2.5	245	1027	156	504		
SEL/X 1868	380	340 ^{+0.007} / _{-0.029}	420 ^{-0.040}	38 ^{-0.140}	38 ^{-0.050}	379.2	380.8	2.1	2.5	265	1148	167	563		
SEL/X 1880	450	400 ^{+0.007} / _{-0.029}	500 ^{-0.044}	46 ^{-0.150}	46 ^{-0.050}	449	451	2.1	2.5	385	1699	244	833		

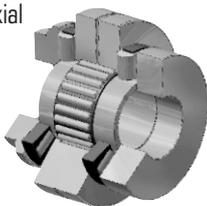
Ref.	Runout precision		Limiting speed				Normal Clearance				Preload	
	Axial	Radial	Normal clearance		With preload		Radial Clearance		Axial tilting clearance			
			Oil ng min ⁻¹	Grease ng min ⁻¹	Oil ng min ⁻¹	Grease ng min ⁻¹	min.	max.	min.	max.	min.	max.
SEL/X 1814	0.010	0.010	1910	955	955	475	0.003	0.015	0.006	0.003	0.003	0.015
SEL/X 1818	0.010	0.010	1500	750	750	375	0.003	0.015	0.006	0.003	0.003	0.015
SEL/X 1820	0.010	0.010	1360	680	680	340	0.005	0.020	0.010	0.004	0.005	0.020
SEL/X 1824	0.010	0.010	1130	565	565	280	0.005	0.020	0.010	0.004	0.005	0.020
SEL/X 1828	0.015	0.010	975	485	485	240	0.005	0.020	0.010	0.004	0.005	0.020
SEL/X 1832	0.015	0.010	850	425	425	210	0.005	0.020	0.010	0.004	0.005	0.020
SEL/X 1836	0.015	0.010	755	375	375	185	0.005	0.025	0.010	0.005	0.005	0.025
SEL/X 1840	0.015	0.010	680	340	340	170	0.005	0.025	0.010	0.005	0.005	0.025
SEL/X 1848	0.020	0.010	565	280	280	140	0.010	0.030	0.020	0.006	0.005	0.025
SEL/X 1860	0.020	0.010	450	225	225	110	0.010	0.040	0.020	0.008	0.005	0.025
SEL/X 1868	0.025	0.010	400	200	200	100	0.010	0.040	0.020	0.008	0.005	0.025
SEL/X 1880	0.030	0.010	340	170	170	85	0.010	0.050	0.030	0.010	0.005	0.025

Linha de produtos

Rolamento radial axial
de agulhas e rolos
cilíndricos

SELZL
NEEDLE ROLLER

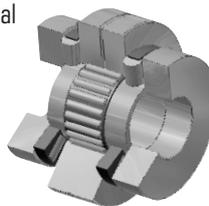
Axial Cylindrical
roller bearings



Rolamento radial axial
de agulhas e rolos
cilíndricos

SELZ
NEEDLE ROLLER

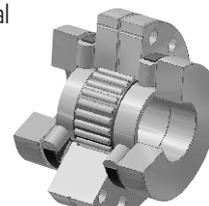
Axial Cylindrical
roller bearings



Rolamento radial axial
de agulhas e rolos
cilíndricos

SELZLF
NEEDLE ROLLER

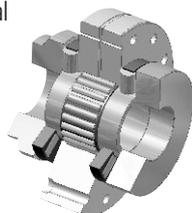
Axial Cylindrical
roller bearing



Rolamento radial axial
de agulhas e rolos
cilíndricos

SELZL
NEEDLE ROLLER

Axial Cylindrical
roller bearings



Rolamento radial axial
de contato angular
de esferas

SELF
AXIAL ANGULAR

Contact ball
bearings



Rolamento de
rolos cruzados

SELX
CROSSED

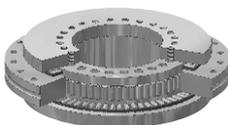
Roller bearing



Rolamento radial axial
de roletes

SELY
AXIAL

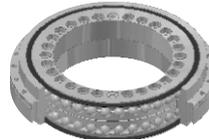
Radial bearings



Rolamento radial axial
de contato angular
de esferas

SELD
AXIAL

Radial bearing



Rolamento radial axial
de contato angular
de esferas

SELN
AXIAL ANGULAR

Contact ball bearings



Tabela de Conversão

INA	IBATECH
ZKLF.....2RS	SEL/F.....2RS
ZKLF.....ZZ	SEL/F.....ZZ
ZKLF.....PE	SEL/F.....2RS PE
ZKLN.....2RS	SEL/N.....2RS
ZKLN.....ZZ	SEL/N.....ZZ
ZKLN.....AP	SEL/N.....2AP
ZKLN.....PE	SEL/N.....PE
ZARN.....TN	SEL/Z.....—
ZARN.....LTN	SEL/ZL.....—
ZARF.....TN	SEL/ZF.....—
ZARF.....LTN	SEL/ZFL.....—
YRT.....—	SELY.....—
ZKLDL.....—	SEL/D.....—
SX.....—	SEL/X.....—



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