

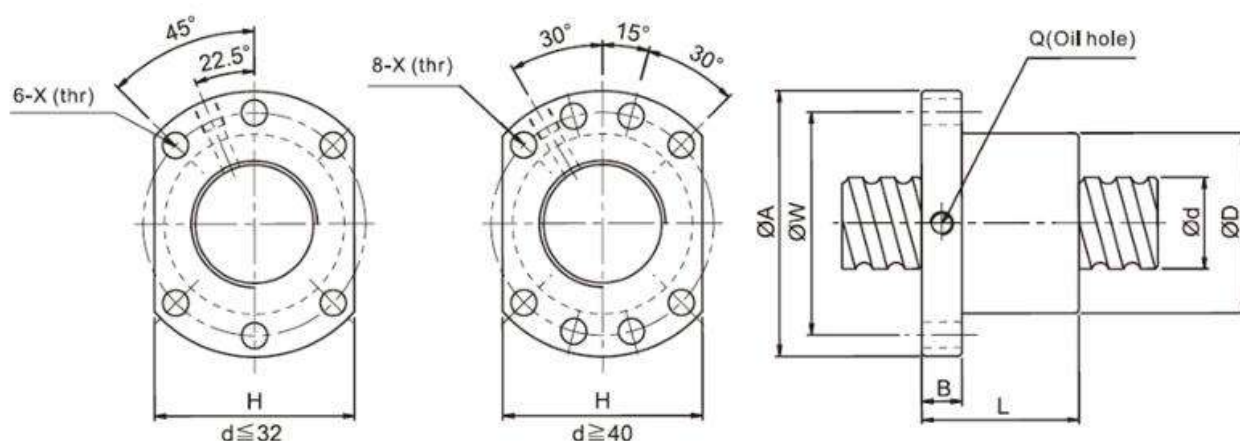
Catálogo Técnico PRADO

Índice

1. Índice	1,2
2. Fuso de Esfera Laminado (SFU)	3
2.1- Fuso de Esfera Laminado – Passo Longo (SFE)	4
2.2- Fuso de Esfera Laminado Castanha Dupla (DFU)	5
2.3- Fuso de Esfera Retificado C5 - Castanha Simples (SFU)	6
2.4- Fuso de Esfera Retificado C5 – Castanha Dupla (DFU)	7
2.5- Suporte para castanha	8
3. Mancal BK	9
3.1- Mancal BF	10
3.2- Mancal EK	11
3.3- Mancal EF	12
3.4- Mancal FK	13
3.5- Mancal FF	14
4. Usinagem Recomendada Mancal BK	15
4.1- Usinagem Recomendada Mancal BF	16
4.2- Usinagem Recomendada Mancal EK	17
4.3- Usinagem Recomendada Mancal EF	18
4.4- Usinagem Recomendada Mancal FK	19
4.5- Usinagem Recomendada Mancal FF	20
5. Guias Lineares e Patim	21
5.1- Patim sem aba	22
5.2- Patim com aba	23
5.3- Patim Perfil Baixo	24
5.4- Patim Perfil Baixo	25
5.5- Patim Mini (PMH)	26

5.6- Patim de Rolos com aba	27
5.7- Patim de Rolos sem aba	28
6. Eixos lineares	29
7. Mancal SK (sem rolamento)	30
7.1- Mancal UCP (com rolamento)	31
7.2- Mancal UCF (com rolamento)	32
7.3- Mancal UCFL (com rolamento).....	33
7.4- Mancal SHF.....	34
7.5- Mancal KFL.....	35
8. Pillow Block Fechado (SCS..UU).....	36
8.1- Pillow Block Fechado Alongado (SCS..LUU).....	37
9. Eixo T com Suporte de Alumínio (SBR).....	38
10. Pillow Block Aberto (SBR..UU).....	39
10.1- Pillow Block Aberto Alongado (SBR..LUU).....	40
11. Rolamentos LM - LM OP	41
11.1- Rolamentos LME - LME OP.....	42
11.2- Rolamentos LMF – LMK – LMH	43
11.3- Rolamento KH..PP	44
11.4 Rolamento LM Alongado (LM..LUU)	45
11.5- Rolamentos LMK..LMF..LMH (Alongados).....	46

Fuso de Esfera Laminado (SFU)



	d	l	Da	D	A	B	L	W	H	Q	N	X	Kgf C	Kgf CO
SFU1204 - 4	12	4	2.381	24/22	40	8	36	32	30	M6	3	4.5	593	1129
SFU1604 - 4	16	4	2.381	28	48	10	40	38	40	M6	4	5.5	629	1270
SFU1605 - 3	16	5	3.175	28	48	10	42	38	40	M6	3	5.5	765	1240
SFU1610 - 3/2	16	10	3.175	28	48	10	42	38	40	M6	3	5.5	721	1249
SFU2005 - 3	20	5	3.175	36	58	10	43	47	44	M6	3	6.5	860	1710
SFU2010 - 3/2	20	10	3.175	36	58	10	42	47	44	M6	2	6.6	830	1680
SFU2505 - 3	25	5	3.175	40	63	10	43	51	48	M6	3	6.6	980	2300
SFU2510 - 3	25	10	4.762	40	62	12	85	51	48	M6	3	6.6	1944	3877
SFU3205 - 4	32	5	3.175	50	81	12	52	65	62	M6	4	9	1450	4150
SFU3210 - 4	32	10	6.350	50	80	12	80	65	62	M6	4	9	3390	7170
SFU3220 - 4	32	20	3.969	50	80	12	78	65	62	M6	4	9	2005	3415
SFU4005 - 4	40	5	3.175	63	93	14	55	78	70	M8	4	9	1610	5330
SFU4010 - 4	40	10	6.350	63	93	14	93	78	70	M8	4	9	3910	9520
SFU4020 - 3	40	20	5.556	63	93	14	82	78	70	M8	4	9	3780	6460
SFU5005 - 4	50	5	5.175	75	110	15	55	93	85	M8	4	11	1730	6763
SFU5010 - 4	50	10	6.350	75	110	16	93	93	84	M8	4	11	4450	12500
SFU5020 - 4	50	20	7.144	75	110	18	108	93	85	M6	4	11	4644	14327
SFU6310 - 4	63	10	6.350	90	125	18	98	108	95	M8	4	11	5070	16600
SFU8010 - 4	80	10	6350	105	145	20	98	125	110	M8	4	13.5	6219	26049
SFU8020 - 4	80	20	9.525	125	165	25	154	145	130	M8	4	13.5	12911	47747

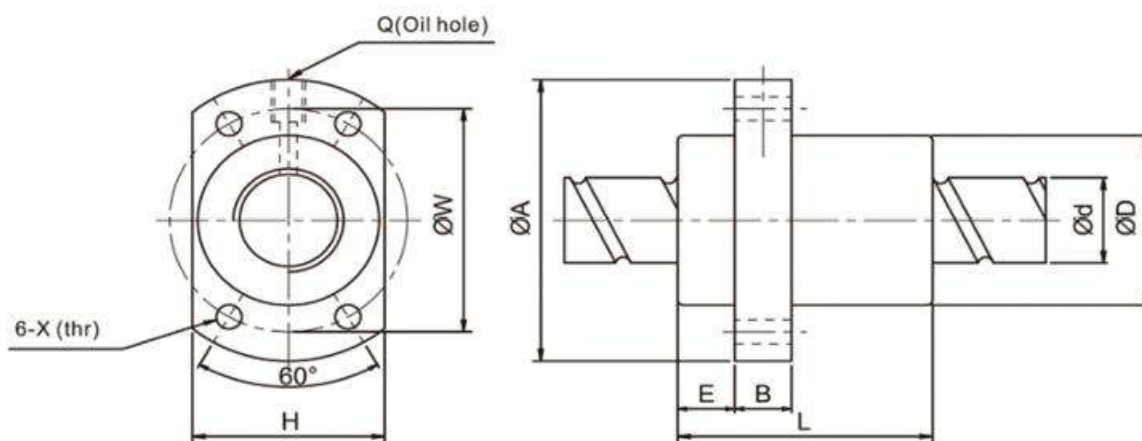
I: phDa: Ø Esfera

N: Número de Circuito

Kgf C: Carga Dinâmica

Kgf CO: Carga Estática

Fuso de Esfera Laminado – Passo Longo (SFE)



Modelo	d	l	Da	D	A	E	B	L	W	H	Q	N	X	Kgf C	Kgf CO
SFE1616-3	16	16	2.778	32	53	10.1	10	38	42	34	M6	1.7 X 2	4.5	650	1280
SFE2020-3	20	20	3.175	39	63	12.5	10	52	49	41	M6	1.7 X 2	5.5	980	2140
SFE2525-3	25	25	3.696	47	74	13	10	57	60	49	M6	1.7 X 2	6.6	1470	3350
SFE3232-3	32	32	4.762	58	92	16	12	82	74	60	M6	1.7 X 2	9	2140	5260
SFE4040-3	40	40	6.350	73	114	19	15	100	93	75	M6	1.7 X 4	11	6200	17600
SFE5050-3	50	50	7.938	90	135	21.5	20	117	112	92	M6	1.7 X 2	14	5100	13800

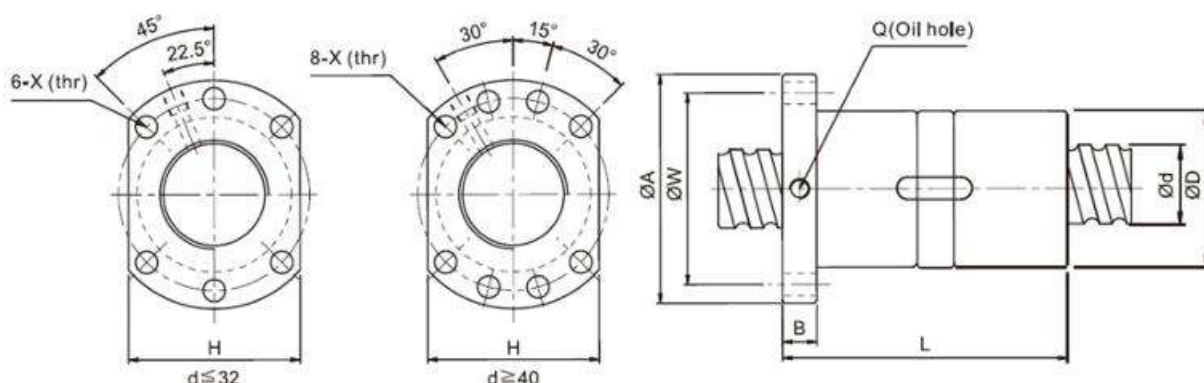
I: ph Da: Ø Esfera

N: Número de Circuito

Kgf C: Carga Dinâmica

Kgf CO: Carga Estática

Fuso de Esfera Laminado – Castanha Dupla (DFU)



Modelo	d	l	Da	D	A	B	L	W	X	H	Q	N	Kgf C	Kgf CO
DFU1604	16	4	2.381	28	48	10	80	38	5.5	40	M6	4	629	1270
DFU1605-3	16	5	3.175	28	48	10	86	38	5.5	40	M6	3	765	1240
DFU1605-4	16	5	3.175	28	48	10	100	38	5.5	40	M6	4	780	1790
DFU1610	16	10	3.175	28	48	10	96	38	5.5	40	M6	3	721	1249
DFU2005-3	20	5	3.175	36	58	10	86	47	6.6	44	M6	3	860	1710
DFU2005-4	20	5	3.175	36	58	10	101	47	6.6	44	M6	4	1130	2380
DFU2010	20	10	3.175	36	58	10	96	47	6.6	44	M6	3	830	1680
DFU2505-3	25	5	3.175	40	63	10	86	51	6.6	48	M6	3	980	2300
DFU2505-4	25	5	3.175	40	63	10	101	51	6.6	48	M6	4	1280	3110
DFU2510-4	25	10	4.762	40	63	12	145	51	6.6	48	M6	4	1944	3877
DFU2510-4/2	25	10	3.175	40	63	10	103	51	6.6	48	M6	4	1150	2950
DFU3205	32	5	3.175	50	81	12	102	65	9	62	M6	4	1450	4150
DFU3206	32	6	3.175	50	81	12	105	65	9	62	M6	4	1720	4298
DFU3210	32	10	6.350	50	81	14	157	65	9	62	M6	4	3390	7170
DFU4005	40	5	3.175	63	93	14	105	78	9	70	M8	4	1610	5330
DFU4010	40	10	6.350	63	93	14	165	78	9	70	M8	4	3910	9520
DFU5005	50	5	3.175	75	110	15	55	93	11	85	M8	4	1730	6763
DFU5010	50	10	6.350	75	110	16	171	93	11	85	M8	4	4450	12500
DFU5020	50	20	7.144	75	110	16	280	93	11	85	M8	4	4644	14327
DFU6310	63	10	6.350	90	125	18	182	108	11	95	M8	4	5070	16600
DFU8010	80	10	6.350	105	145	20	182	125	13.5	110	M8	4	6219	26049

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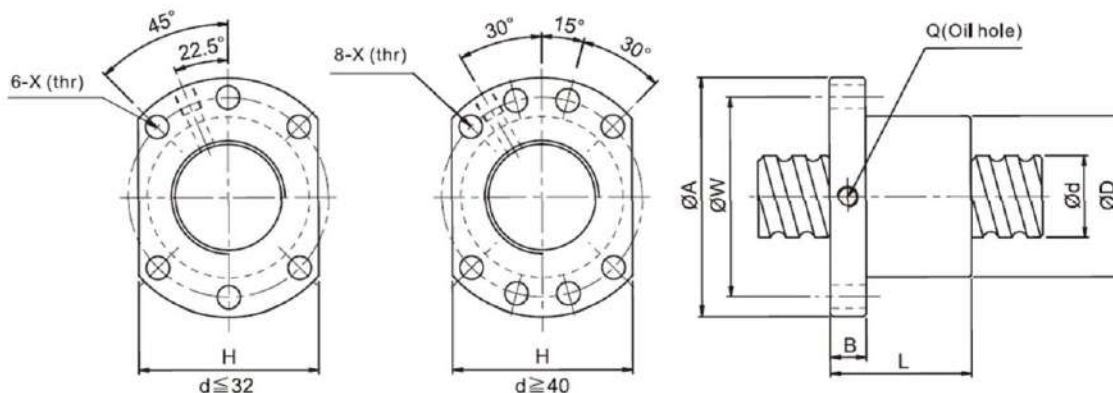
Da: Ø Esfera

N: Número de Circuito

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Kgf CO: Carga Estática

Fuso de Esfera Retificado C5 – Castanha Simples (SFU)



Modelo	d	l	Da	D	A	B	L	W	H	X	Q	N	Kgf C	Kgf CO
SFU 1204 - 4	12	4	2.381	24	40	10	40	32	30	4.5	M6	4	593	1129
SFU 1604 - 4	16	4	2.381	28	48	10	40	38	40	5.5	M6	4	629	1270
SFU 1605 - 4	16	5	3.175	28	48	10	50	38	40	5.5	M6	4	780	1790
SFU 1610 - 3	16	10	3.175	28	48	10	57	38	40	5.5	M6	3	721	1249
SFU 2004 - 4	20	4	2.381	36	58	10	42	47	44	6.6	M6	4	699	1617
SFU 2005 - 4	20	5	3.175	36	58	10	51	47	44	6.6	M6	4	1130	2380
SFU 2504 - 4	25	4	2.381	40	62	10	42	51	48	6.6	M6	4	777	2052
SFU 2505 - 4	25	5	3.175	40	62	10	51	51	48	6.6	M6	4	1280	3110
SFU 2506 - 4	25	6	3.969	40	62	10	54	51	48	6.6	M6	4	1528	3284
SFU 2508 - 4	25	8	4.762	40	62	10	63	51	48	6.6	M6	4	1941	3863
SFU 2510 - 4	25	10	4.762	40	62	12	85	51	48	6.6	M6	4	1944	3877
SFU 2806 - 5	28	6	3.969	50	80	12	49	65	62	6.6	M6	5	2272	6396
SFU 3204 - 4	32	4	2.381	50	80	12	44	65	62	9	M6	4	871	2661
SFU 3205 - 4	32	5	3.175	50	80	12	52	65	62	9	M6	4	1450	4150
SFU 3206 - 4	32	6	3.969	50	80	12	57	65	62	9	M6	4	1720	4298
SFU 3208 - 4	32	8	4.762	50	80	12	65	65	62	9	M6	4	2189	5079
SFU 3210 - 4	32	10	6.350	50	80	12	90	65	62	9	M6	4	3390	7170
SFU 4005 - 4	40	5	3.175	63	93	14	55	78	70	9	M8	4	1610	5330
SFU 4006 - 4	40	6	3.969	63	93	14	60	78	70	9	M6	4	1911	5458
SFU 4008 - 4	40	8	4.762	63	93	14	67	78	70	9	M6	4	2435	6469
SFU 4010 - 4	40	10	6.350	63	93	14	93	78	70	9	M8	4	3910	9520
SFU 4016 - 5	40	16	5.556	68	98	14	108	83	75	9	M8	5	3619	10857
SFU 4025 - 4	40	25	6.350	70	110	14	127	85	85	9	M8	4	3556	10045
SFU 5005 - 5	50	5	3.175	70	100	16	45	85	75	11	M8	5	2025	8955
SFU 5010 - 4	50	10	6.350	75	110	16	93	93	85	11	M8	4	4450	12500
SFU 5020 - 4	50	20	7.144	75	110	16	138	93	85	11	M8	4	4644	14327
SFU 6310 - 4	63	10	6.350	95	125	18	98	108	95	11	M8	4	5070	16600
SFU 6320 - 4	63	20	9.525	95	135	20	149	115	100	13.5	M8	4	7573	23860
SFU 8010 - 4	80	10	6.350	105	145	20	98	125	110	13.5	M8	4	5620	21300
SFU 8020 - 4	80	20	9.525	125	165	25	154	145	130	13.5	M8	4	8485	30895

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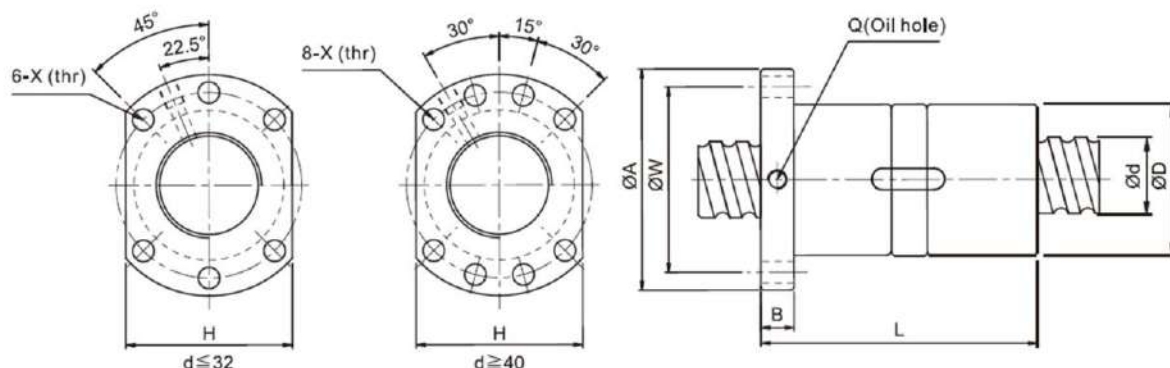
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Kgf CO: Carga Estática

Fuso de Esfera Retificado C5 – Castanha Dupla (DFU)



Modelo	d	l	Da	D	A	B	L	W	H	X	Q	N	Kgf C	Kgf CO
DFU 1604 - 4	16	4	2.381	28	48	10	80	38	40	5.5	M6	4	629	1270
DFU 1605 - 4	16	5	3.175	28	48	10	100	38	40	5.5	M6	4	780	1400
DFU 1610 - 3	16	10	3.175	28	48	10	118	38	40	5.5	M6	3	721	1249
DFU 2004 - 4	20	4	2.381	36	58	10	80	47	44	6.6	M6	4	699	1617
DFU 2005 - 4	20	5	3.175	36	58	10	101	47	44	6.6	M6	4	1130	2660
DFU 2504 - 4	25	4	2.381	40	62	10	80	51	48	6.6	M6	4	777	2032
DFU 2505 - 4	25	5	3.175	40	62	10	101	51	48	6.6	M6	4	1320	3262
DFU 2506 - 4	25	6	3.969	40	62	10	105	51	48	6.6	M6	4	1904	5034
DFU 2508 - 4	25	8	4.762	40	62	10	120	51	48	6.6	M6	4	1897	5019
DFU 2510 - 4	25	10	4.762	40	62	12	145	51	48	6.6	M6	4	1768	3888
DFU 2806 - 5	28	6	3.969	50	80	12	148	65	62	6.6	M6	5	1988	5576
DFU 3204 - 4	32	4	2.381	50	80	12	80	65	62	9	M6	4	871	2661
DFU 3205 - 4	32	5	3.175	50	80	12	102	65	62	9	M6	4	1472	4172
DFU 3206 - 4	32	6	3.969	50	80	12	105	65	62	9	M6	4	2163	6636
DFU 3208 - 4	32	8	4.762	50	80	12	122	65	62	9	M6	4	2156	6622
DFU 3210 - 4	32	10	6.350	50	80	12	162	65	62	9	M6	4	3080	6615
DFU 4005 - 4	40	5	3.175	63	93	14	105	78	70	9	M8	4	1729	6643
DFU 4006 - 4	40	6	3.969	63	93	14	108	78	70	9	M6	4	2359	8246
DFU 4008 - 4	40	8	4.762	63	93	14	132	78	70	9	M6	4	3052	9940
DFU 4010 - 4	40	10	6.350	63	93	14	165	78	70	9	M8	4	3045	9926
DFU 4016 - 5	40	16	5.556	68	98	14	220	83	75	9	M8	5	4438	12880
DFU 4025 - 4	40	25	6.350	70	100	14	259	85	75	9	M8	4	3836	11669
DFU 5005 - 5	50	5	3.175	70	100	16	95	85	75	11	M8	5	2700	11940
DFU 5010 - 4	50	10	6.350	75	110	16	93	93	85	11	M8	4	4935	16310
DFU 5020 - 4	50	20	7.144	75	110	16	138	93	85	11	M8	4	4004	12838
DFU 6310 - 4	63	10	6.350	95	125	18	98	108	95	11	M8	4	5404	20433
DFU 6320 - 4	63	20	9.525	95	135	20	149	115	100	13.5	M8	4	5495	21014
DFU 8010 - 4	80	10	6.350	105	145	20	98	125	110	13.5	M8	4	6034	26586
DFU 8020 - 4	80	20	9.525	125	165	25	154	145	130	13.5	M8	4	9261	35742

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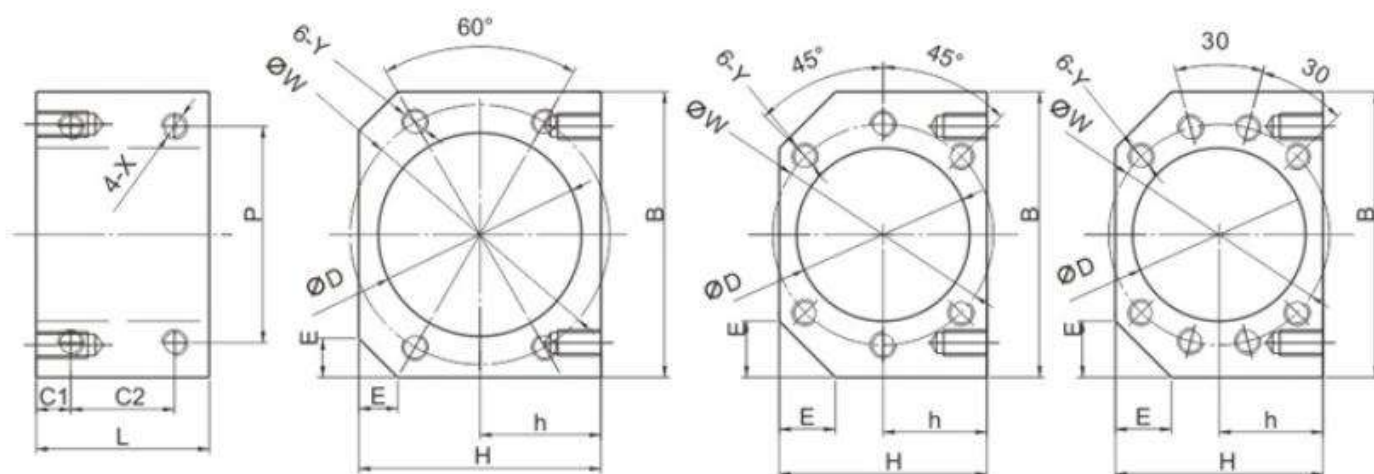
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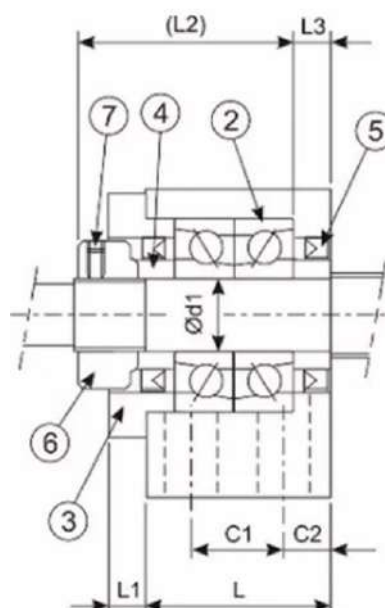
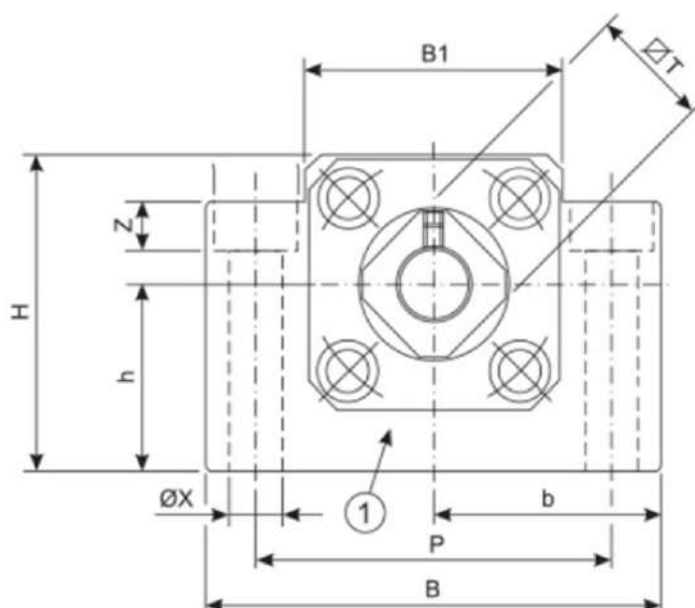
Suporte Para Castanha



Modelo	Castanhas	D	B	H	h	E	L	C1	C2	P	X	W	Y
SNUT12	1204	22.5	50	30	-	-	36	-	24	35	M5	32	M4
SNUT16	1605/1610	28	52	39.5	20	12	40	8	24	40	M5	38	M5
SNUT1616	1616	32	55	40	20	8	27	6	15	41	M4	42	M4
SNUT20	2005/2010	36	62	44	22	12	40	8	24	48	M6	47	M6
SNUT2020	2020	39	64	46	23	11	40	8	24	52	M6	50	M5
SNUT25	2505/2510	40	66	48	24	13	40	8	24	50	M6	51	M6
SNUT2525	2525	47	78.5	55	25.5	9	34	8	20	68	M6	60	M6
SNUT32	3205/3210	50	86	61.5	31	17	40	10	24	66	M8	65	M8
SNUT3232	3232	58	95	66	33	10	55	10	35	82	M8	74	M8
SNUT40	4005/4010	63	100	80	40	19	10	10	40	78	M8	78	M8
SNUT50	5010	75	116	85	42.5	22	46	10	26	92	M8	93	M8

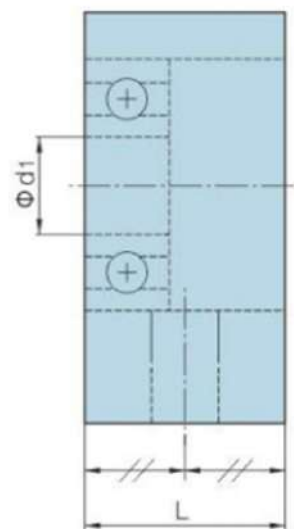
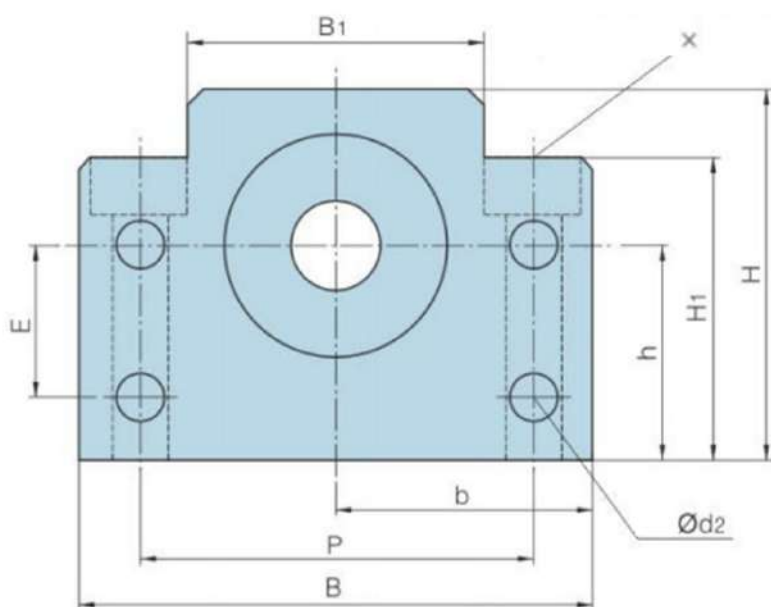
Mancal BK

Item	Descrição	Qtd.
1	Bloco	1
2	Jogo de Rolamentos	1
3	Tampa	1
4	Bucha Espaçadora	2
5	Vedação	2
6	Porca Trava	1
7	Parafuso allen de Travamento	1



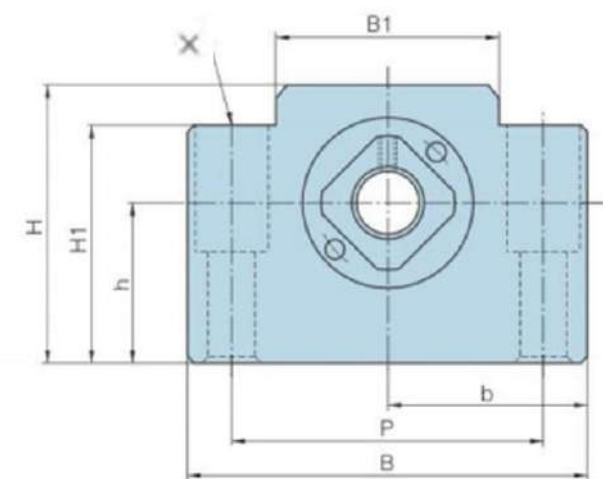
Modelo	d	L	L1	L2	L3	C1	C2	B	H	b	±0.2	h	±0.2	B1	H1	E	P	d2	X	Y	Z	T
BK10	10	25	5	29	5	13	6	60	39	30		22		34	32.5	15	46	5.5	6.6	10.8	5	16
BK12	12	25	5	29	5	13	6	60	43	30		25		34	32.5	18	46	5.5	6.6	10.8	1.5	19
BK15	15	27	6	32	6	15	6	70	48	35		28		42	38	18	54	5.5	6.6	11	6.5	22
BK17	17	35	9	44	7	19	8	86	64	43		39		50	55	28	68	6.6	9	14	8.5	24
BK20	20	35	8	43	8	19	8	88	60	44		34		52	50	22	70	6.6	9	14	8.5	30
BK25	25	42	12	54	9	22	10	106	80	53		48		64	70	33	85	9	11	17.5	11	35
BK30	30	45	14	61	9	23	11	128	89	64		51		76	78	33	102	11	14	20	13	40
BK35	35	50	14	67	12	26	12	140	96	70		52		88	79	35	114	11	14	20	13	50
BK40	40	61	18	76	15	33	14	160	110	80		60		100	90	37	130	14	18	26	17.5	50

Mancal BF

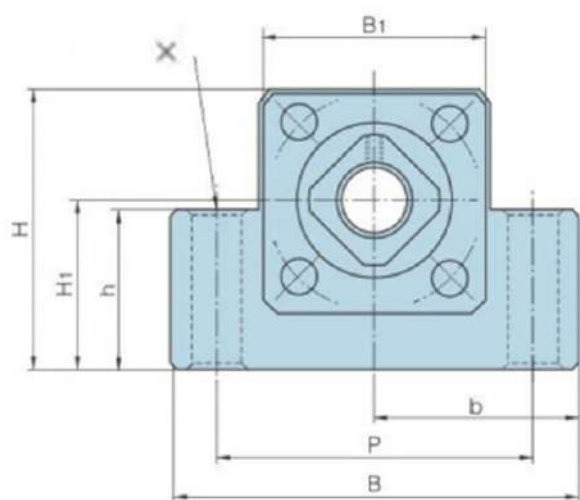
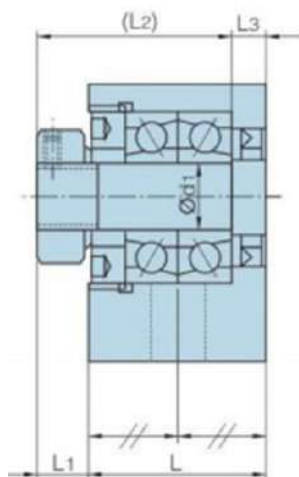


Modelo	d	L	B	H	b ±0.2	h ±0.2	B ₁	H ₁	E	P	d ₂	X	Y	Z	BEARING	SNAP RING
BF10	8	20	60	39	30	22	34	32.5	15	46	5.5	6.6	10.8	5	608ZZ	S 08
BF12	10	20	60	43	30	25	34	32.5	18	46	5.5	6.6	10.8	1.5	6000ZZ	S 10
BF15	15	20	70	48	35	28	40	38	18	54	5.5	6.6	11	6.5	6002ZZ	S 15
BF17	17	23	86	64	43	39	50	55	28	68	6.6	9	14	8.5	6203ZZ	S 17
BF20	20	26	88	60	44	34	52	50	22	70	6.6	9	14	8.5	6004ZZ	S 20
BF25	25	30	106	80	53	48	64	70	33	85	9	11	17.5	11	6205ZZ	S 25
BF30	30	32	128	89	64	51	76	78	33	102	11	14	20	13	6206ZZ	S 30
BF35	35	32	140	96	70	52	88	79	35	114	11	14	20	13	6207ZZ	S 35
BF40	40	37	160	110	80	60	100	90	37	130	14	18	26	17.5	6208ZZ	S 40

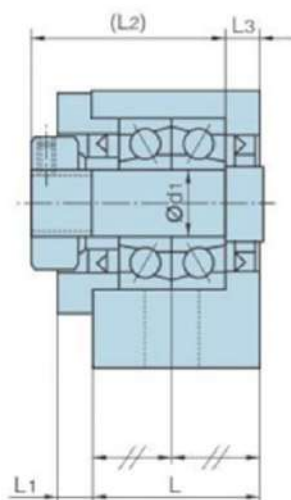
Mancal EK



EK6-8

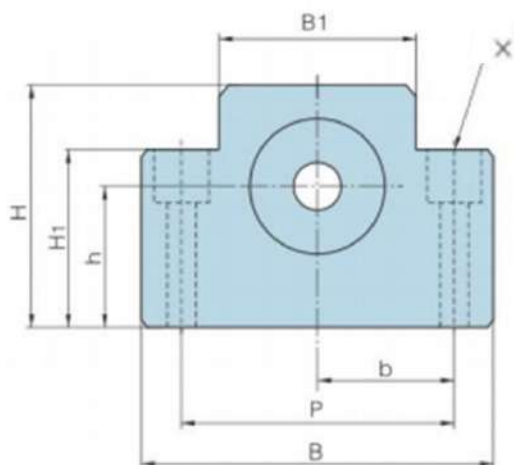


EK10-20

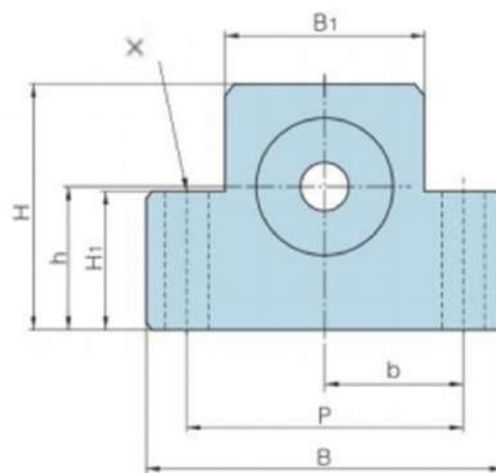
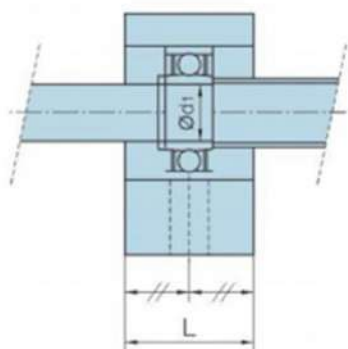


MODELO	d1	L	L1	L2	L3	B	H	b ±0.2	H1	B1	h ±0.2	P	X	Y	Z
EK5	5	16.5	5.5	18.5	3.5	36	21	18	11	20	8	28	4.5	\	\
EK6	6	20	5.5	22	3.5	42	25	21	20	18	13	30	5.5	9.5	11
EK8	8	23	7	26	4	52	32	26	26	25	17	38	6.6	11	12
EK10	10	24	6	29.5	6	70	43	35	25	36	24	52	9	\	\
EK12	12	24	6	29.5	6	70	43	35	25	36	24	52	9	\	\
EK15	15	25	6	36	5	80	49	40	30	41	25	60	11	\	\
EK20	20	42	10	50	10	95	58	47.5	30	56	25	75	11	\	\

Mancal EF



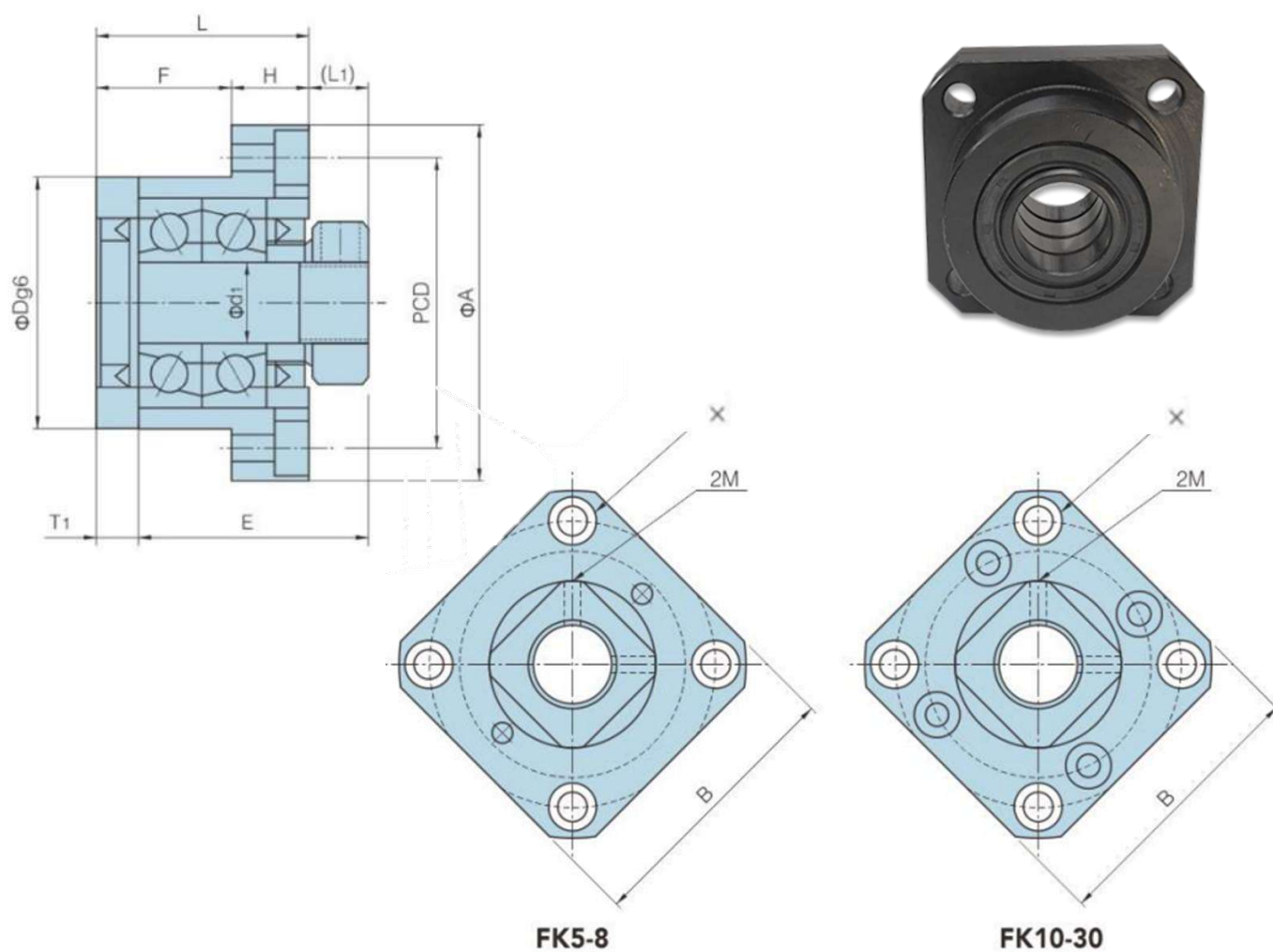
EF6 - EF8



EF10 - EF20

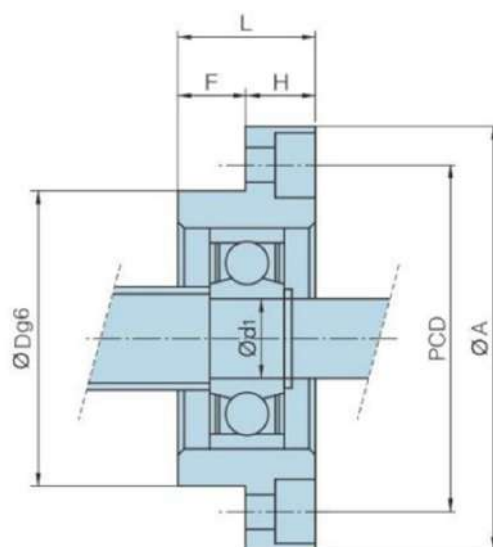
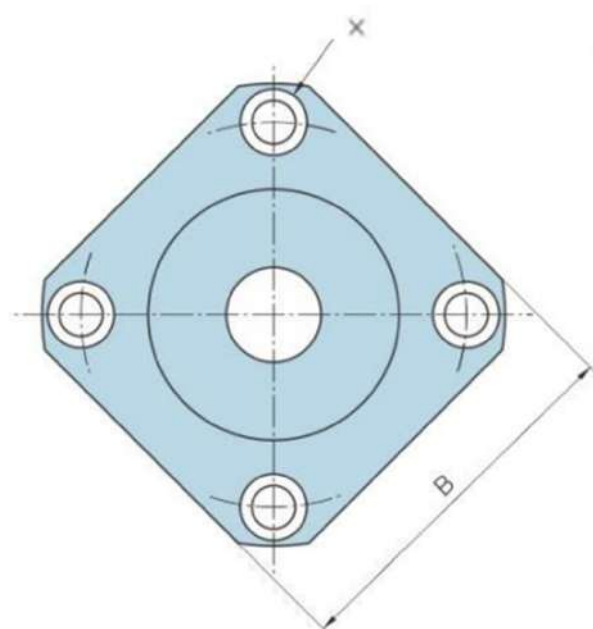
Modelo	d1	L	B	H	b ±0.2	h ±0.2	B1	H1	P	X	Y	Z	BEARING	SNAP RING
EF6	6	12	42	25	21	13	18	20	30	5.5	9.5	11	606ZZ	S 06
EF8	6	14	52	32	26	17	25	26	38	6.6	11	12	606ZZ	S 06
EF10	8	20	70	43	35	25	36	24	52	9	\	\	608ZZ	S 08
EF12	10	20	70	43	35	25	36	24	52	9	\	\	6000ZZ	S 10
EF15	15	20	80	49	40	30	41	25	60	9	\	\	6002ZZ	S 15
EF20	20	26	95	58	47.5	30	56	25	75	11	\	\	6204ZZ	S 20

Mancal FK



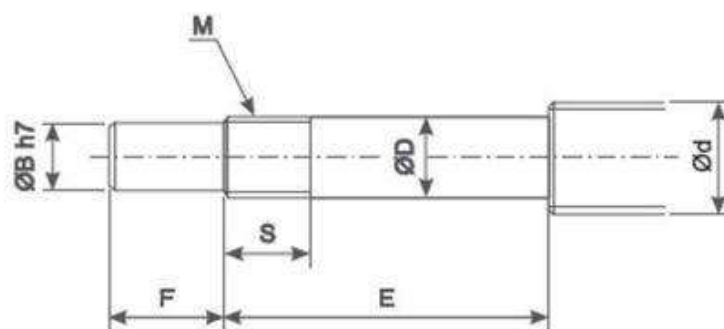
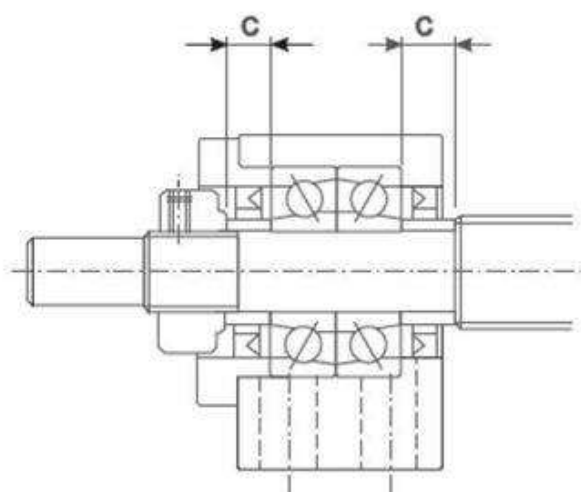
Modelo	d1	L	H	F	E	Dg6	A	PCD	B	L1	T1	X	Y	Z
FK5	5	16.5	6	10.5	18.5	20	34	26	26	5.5	3.5	3.4	6.5	4
FK6	6	20	7	13	22	22	36	28	28	5.5	3.5	3.4	6.5	4
FK8	8	23	9	14	26	28	43	35	35	7	4	3.4	6.5	4
FK10	10	27	10	17	29.5	34	52	42	42	7.5	5	4.5	8	4
FK12	12	27	10	17	29.5	36	54	44	44	7.5	5	4.5	8	4
FK15	15	32	15	17	36	40	63	50	52	10	6	5.5	9.5	6
FK17	17	45	22	23	56	50	77	62	60	11	8	6.6	11	10
FK20	20	52	22	30	50	57	85	70	68	8	10	6.6	11	10
FK25	25	57	27	30	60	63	98	80	79	13	10	9	15	13
FK30	30	63	30	32	61	75	117	95	93	11	12	11	17.5	15

Mancal FF



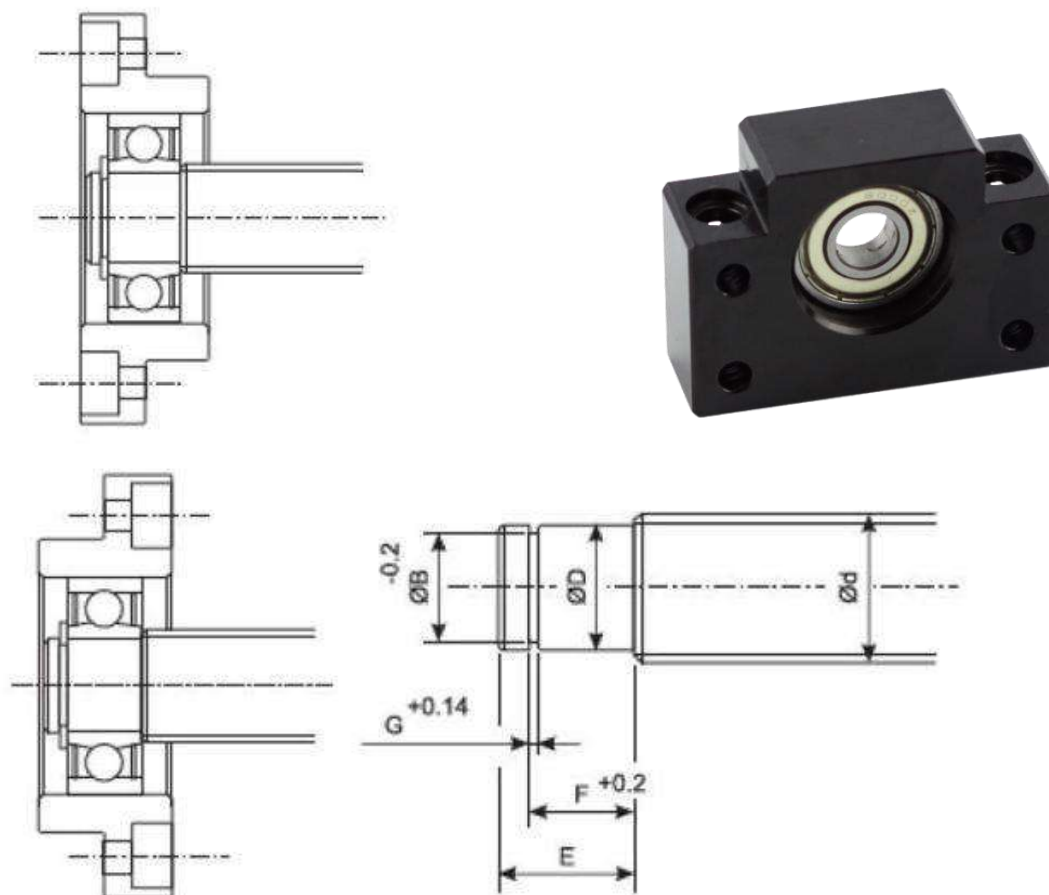
Modelo	d1	L	H	F	Dg6	A	PCD	B	X	Y	Z	BEARING	SNAP RING
FF10	8	12	7	5	28	43	35	35	3.4	6.5	4	608ZZ	S 08
FF12	10	15	7	8	34	52	42	42	4.5	8	4	6000ZZ	S 10
FF15	15	17	9	8	40	63	50	52	5.5	9.5	5.5	6002ZZ	S 15
FF17	17	20	11	9	50	77	62	60	6.6	11	6.5	6203ZZ	S 17
FF20	20	20	11	9	57	85	70	68	6.6	11	6.5	6004ZZ	S 20
FF25	25	24	14	10	63	98	80	79	9	14	8.5	6205ZZ	S 25
FF30	30	27	18	9	75	117	95	93	11	17.5	11	6206ZZ	S 30

Usinagem Recomendada Mancal BK



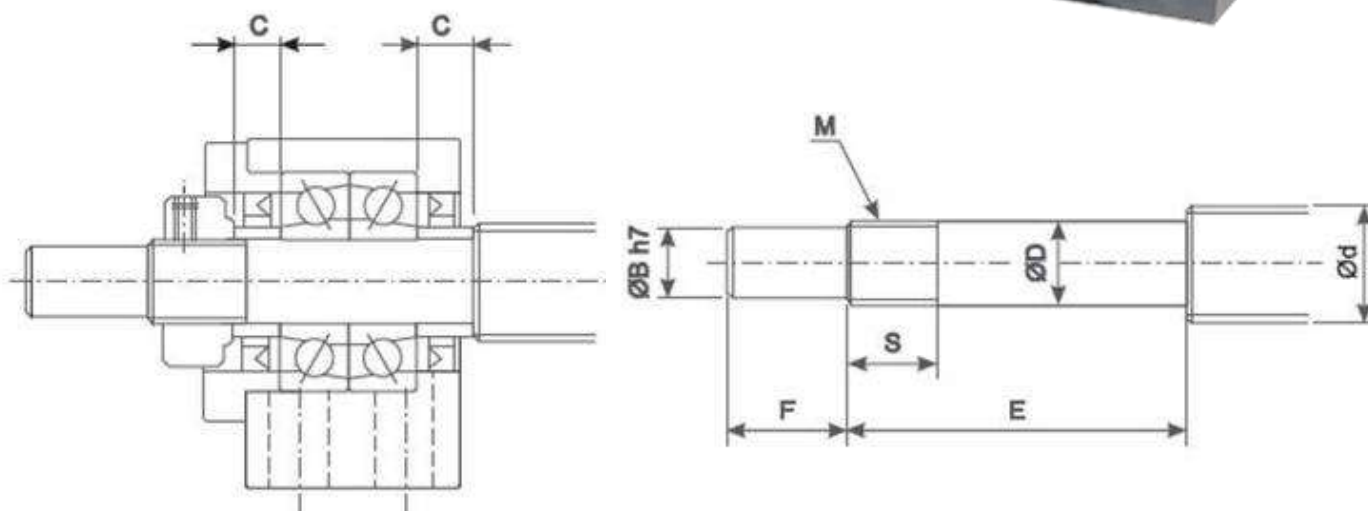
BK	Ø Fuso d	Ø Montagem no Mancal D		B	E	F	M	S	C
BK10	14	10	-0,005 ~ -0,012	8	36	15	M10 X 1	12	5,5
BK12	16	12	-0,005 ~ -0,012	10	36	15	M12 X 1	12	5,5
BK15	20	15	-0,005 ~ -0,014	12	40	20	M15 X 1	12	6
BK17	20/25	17	-0,005 ~ -0,014	15	53	23	M17 X 1	17	7
BK20	25	20	-0,005 ~ -0,014	17	53	25	M20 X 1	15	8
BK25	32	25	-0,005 ~ -0,014	20	66	30	M25 X 1,5	20	9
BK30	40	30	-0,005 ~ -0,015	25	73	38	M30 X 1,5	25	9
BK35	40	35	-0,005 ~ -0,015	30	82	45	M35 X 1,5	26	12
BK40	50	40	-0,005 ~ -0,015	35	94	50	M40 X 1,5	30	15

Usinagem Recomendada Mancal BF



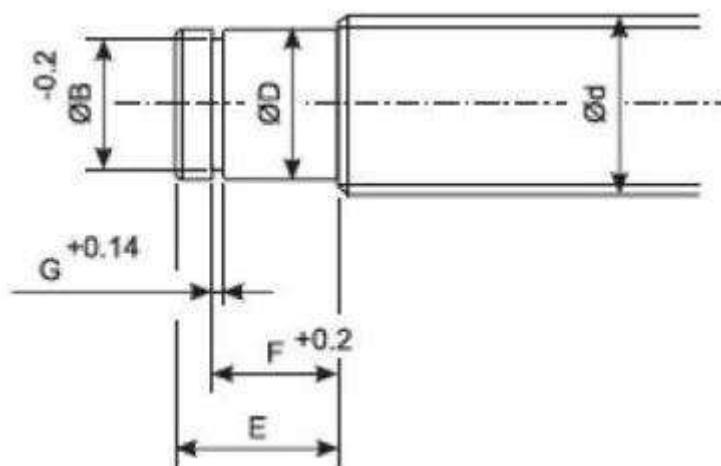
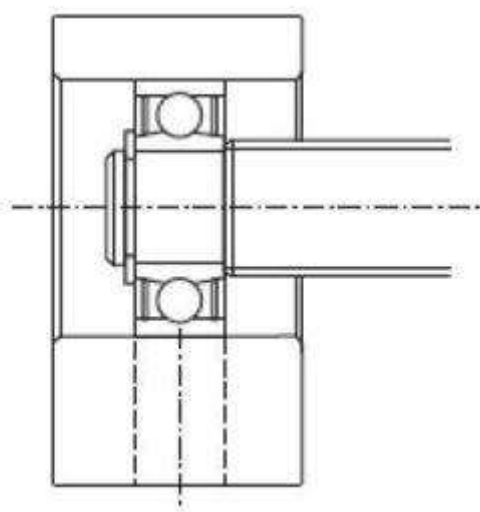
BF	Ø Fuso d	Ø Montagem no Mancal D			E	B	F	G
BF10	14	8	-0,005	~ -0,012	10	7,6	7,9	0,9
BF12	14/16	10	-0,005	~ -0,012	11	9,6	9,15	1,15
BF15	20	15	-0,005	~ -0,014	13	14,3	10,15	1,15
BF17	20/25	17	-0,005	~ -0,014	16	16,2	13,15	1,15
BF20	25	20	-0,005	~ -0,014	16	19	13,35	1,35
BF25	32	25	-0,005	~ -0,014	20	23,9	16,35	1,35
BF30	40	30	-0,005	~ -0,015	21	28,6	17,75	1,75
BF35	40	35	-0,005	~ -0,015	22	33	18,75	1,75
BF40	50	40	-0,005	~ -0,015	23	38	19,95	1,95

Usinagem Recomendada Mancal EK



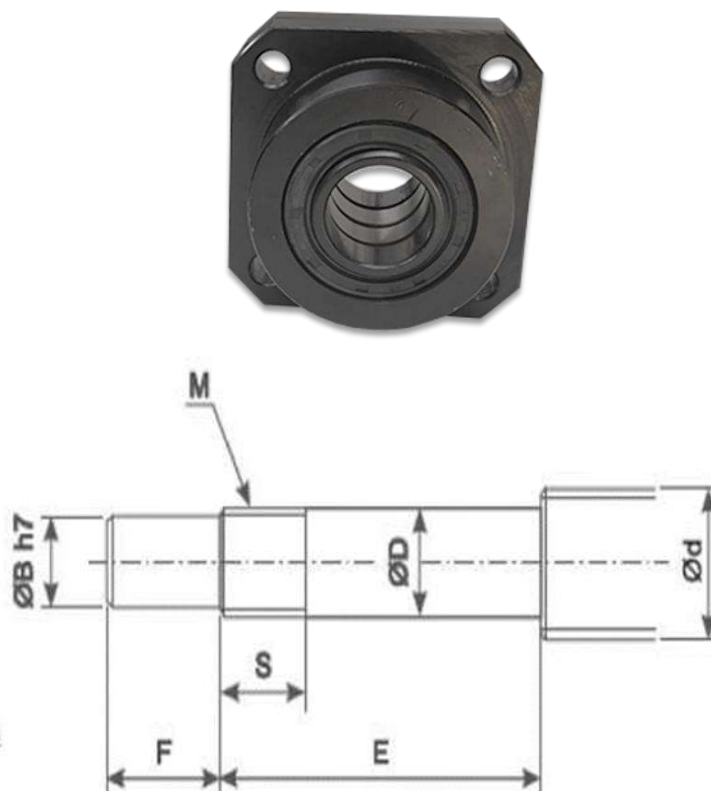
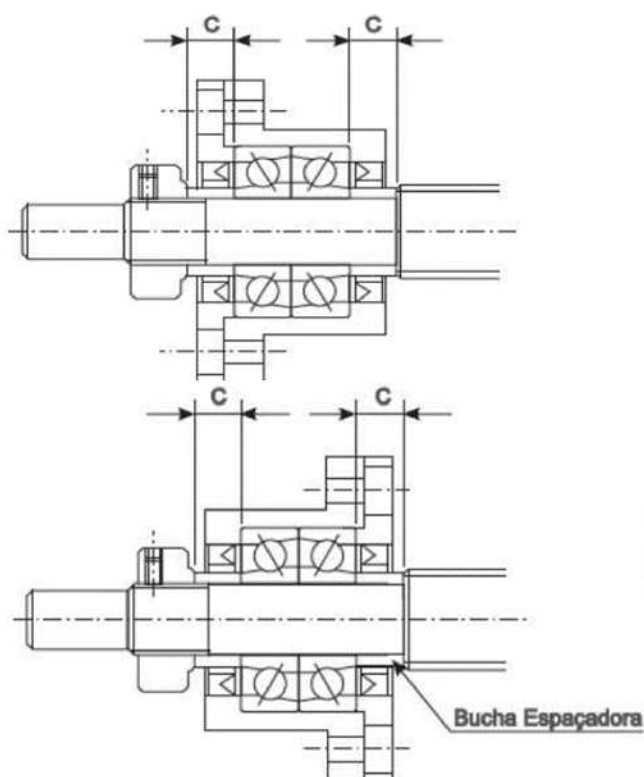
Modelo	Ø Fuso d	Ø Montagem no Mancal D			B	E	F	M	S	C
EK10	14	10	-0,005	~ -0,012	8	36	15	M10 X 1	12	5,5
EK12	16	12	-0,005	~ -0,012	10	36	15	M12 X 1	12	5,5
EK15	20	15	-0,005	~ -0,014	12	48	20	M15 X 1	13	6
EK17	20/25	17	-0,005	~ -0,014	15	59	23	M17 X 1	17	7
EK20	25	20	-0,005	~ -0,014	17	64	25	M20 X 1	17	8
EK25	32	25	-0,005	~ -0,014	20	76	30	M25 X 1,5	20	9
EK30	40	30	-0,005	~ -0,015	25	73	38	M30 X 1,5	25	9
EK35	40	35	-0,005	~ -0,015	30	81	45	M35 X 1,5	28	12
EK40	50	40	-0,005	~ -0,015	35	93	50	M40 X 1,5	35	15

Usinagem Recomendada Mancal EF



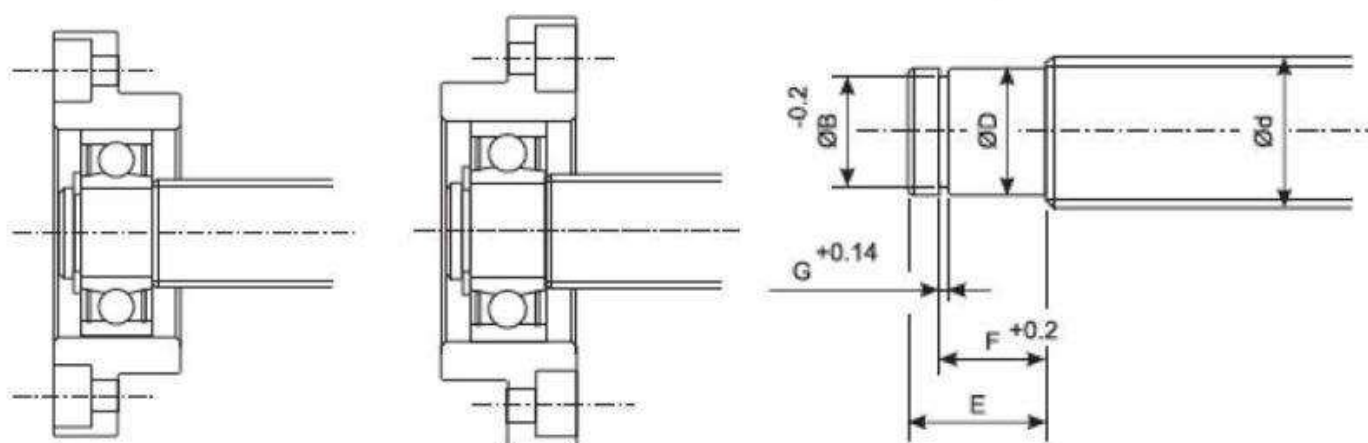
EF	Ø Fuso d	Ø Montagem no Mancal D			E	B	F	G
EF10	14	8	-0,005	~ -0,012	10	7,6	7,9	0,9
EF12	14/16	10	-0,005	~ -0,012	11	9,6	9,15	1,15
EF15	20	15	-0,005	~ -0,014	13	14,3	10,15	1,15
EF17	20/25	17	-0,005	~ -0,014	16	16,2	13,15	1,15
EF20	25	20	-0,005	~ -0,014	16	19	13,35	1,35
EF25	32	25	-0,005	~ -0,014	20	23,9	16,35	1,35
EF30	40	30	-0,005	~ -0,015	21	28,6	17,75	1,75
EF35	40	35	-0,005	~ -0,015	22	33	18,75	1,75
EF40	50	40	-0,005	~ -0,015	23	38	19,95	1,95

Usinagem Recomendada Mancal FK



FK	Ø Fuso d	Ø Montagem no Mancal D			B	E	F	M	S	C
FK10	14	10	-0,005	~ -0,012	8	36	15	M10 X 1	12	5,5
FK12	16	12	-0,005	~ -0,012	10	36	15	M12 X 1	12	5,5
FK15	20	15	-0,005	~ -0,014	12	48	20	M15 X 1	13	10
FK17	20/25	17	-0,005	~ -0,014	15	59	23	M17 X 1	17	10
FK20	25	20	-0,005	~ -0,014	17	64	25	M20 X 1	16	11
FK25	32	25	-0,005	~ -0,014	20	76	30	M25 X 1,5	20	15
FK30	40	30	-0,005	~ -0,015	25	73	38	M30 X 1,5	25	9

Usinagem Recomendada Mancal FF

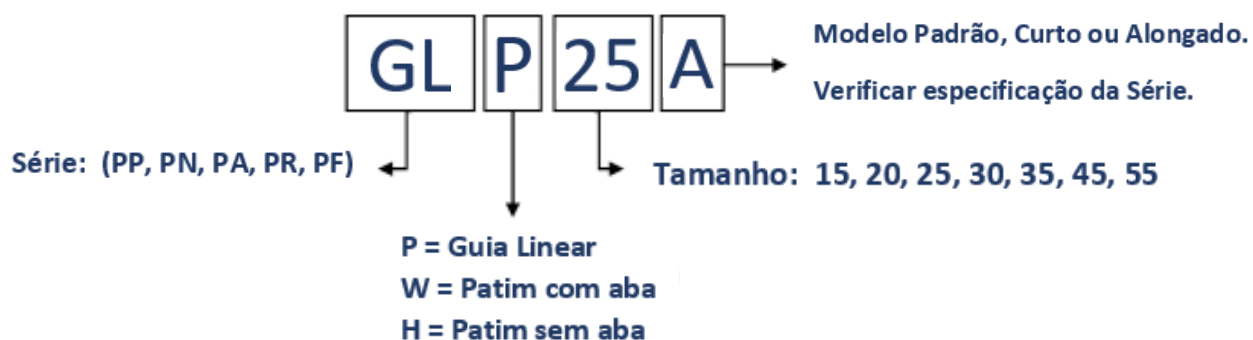


Modelo	d1	L	H	F	Dg6	A	PCD	B	X	Y	Z	BEARING	SNAP RING
FF10	8	12	7	5	28	43	35	35	3.4	6.5	4	608ZZ	S 08
FF12	10	15	7	8	34	52	42	42	4.5	8	4	6000ZZ	S 10
FF15	15	17	9	8	40	63	50	52	5.5	9.5	5.5	6002ZZ	S 15
FF17	17	20	11	9	50	77	62	60	6.6	11	6.5	6203ZZ	S 17
FF20	20	20	11	9	57	85	70	68	6.6	11	6.5	6004ZZ	S 20
FF25	25	24	14	10	63	98	80	79	9	14	8.5	6205ZZ	S 25
FF30	30	27	18	9	75	117	95	93	11	17.5	11	6206ZZ	S 30

Guias Lineares e Patim

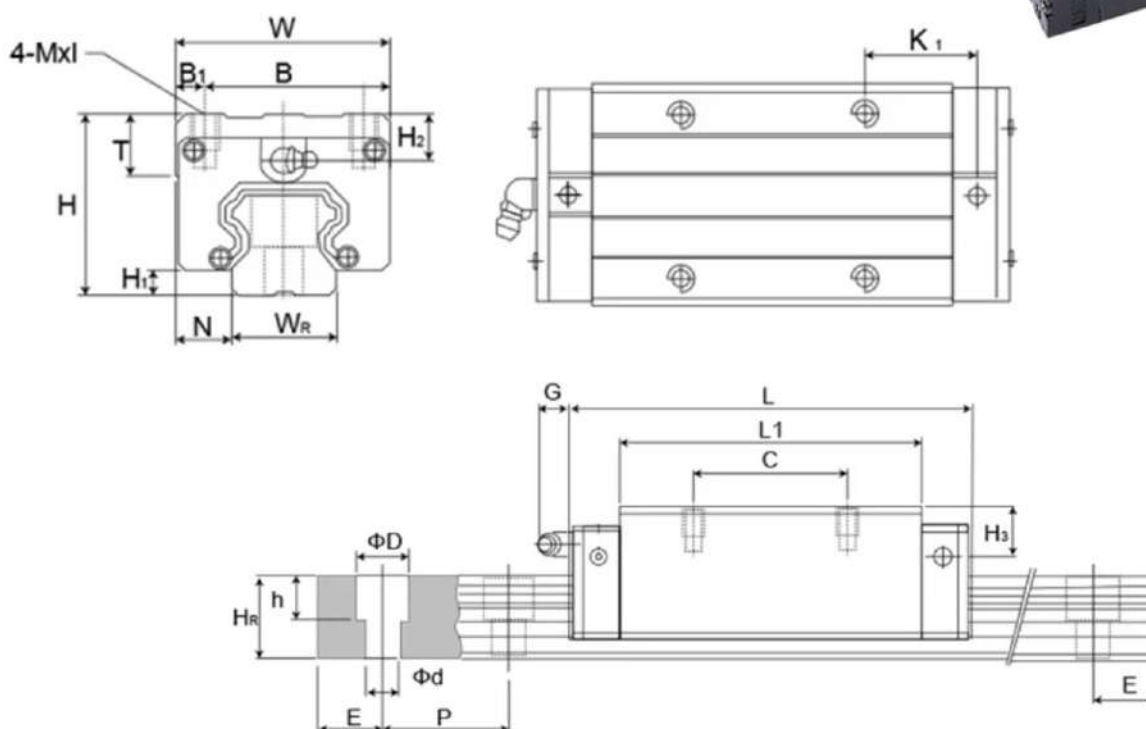


Códigos (exceto série miniatura PMH)



Série	Especificação	Intercambialidade
GLP / PP	Padrão	Séries PP, PPL, PN e PA
GLC / PN	Anti-oxidação (Guia de Cromo e Patins de Níquel)	Séries PP, PPL, PN e PA
PA	Alta Resistência (Patins com gaiola de aço)	Séries PP, PPL, PN e PA
GLRE / PR	Baixo Perfil	Apenas PR
GF / PF	Maior proteção e redução de atrito (Guia com fita de proteção ao invés de tampinhas)	Apenas GF
GLM / PMH	Miniatura	Apenas miniatura
GLRO	De rolos (Alta capacidade de cargas)	Apenas PROW/H

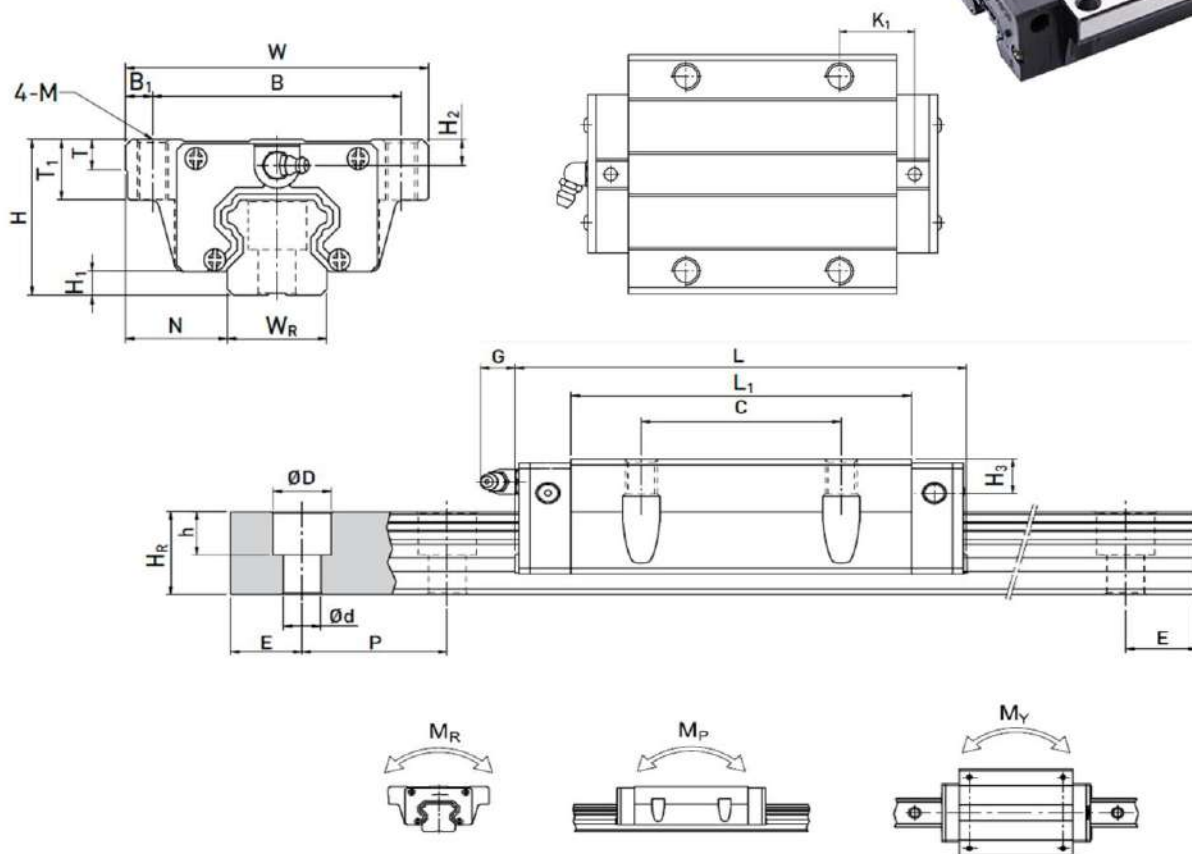
PATIM SEM ABA (PPH, PNH, PAH)



Modelo	H	H ₁	HW	N	W	B	B ₁	C	L ₁	L	K ₁	K ₂	G	Mx1	T	H ₂	H ₃	W _R	H _R	D	h	d	P	E	(mm)	Kgf C	Kgf CO
PPH15	28	4,3	23,7	9.5	34	26	4	26	39.4	61.4	10	4.85	5.3	M4x5	6	7.95	7.7	15	15	7.5	5.3	4.5	60	20	M4x16	1160	1730
PPH20	30	4,6	25,4	12	44	32	6	36	50.5	77.5	12.25	6	12	M5x6	8	6	7	20	17.5	9.5	8.5	6	60	20	M5x16	1810	2830
PPH20A	30	4,6	25,4	12	44	32	6	50	65.2	92.2	12.6	6	12	M5x6	8	6	7	20	17.5	9.5	8.5	6	60	20	M5x16	2159	4027
PPH25	40	5,5	34,5	12.5	48	35	6.5	35	58	84	16.8	6	12	M6x8	8	10	13	23	22	11	9	7	60	20	M6x20	2700	3720
PPH25A	40	5,5	34,5	12.5	48	35	6.5	50	78.6	104.6	19.6	6	12	M6x8	8	10	13	23	22	11	9	7	60	20	M6x20	3339	5041
PPH30	45	6	39	16	60	40	10	40	70	97.4	20.25	6	12	M8x10	8.5	9.5	13.8	28	26	14	12	9	80	20	M8x25	3950	5321
PPH30A	45	6	39	16	60	40	10	60	93	120.4	21.75	6	12	M8x10	8.5	9.5	13.8	28	26	14	12	9	80	20	M8x25	4820	7052
PPH35	55	7,5	47,5	18	70	50	10	50	80	112.4	20.6	7	12	M8x12	10.2	16	19.6	34	29	14	12	9	80	20	M8x25	5049	7052
PPH35A	55	7,5	47,5	18	70	50	10	72	105.8	138.2	22.5	7	12	M8x12	10.2	16	19.6	34	29	14	12	9	80	20	M8x25	6139	9343
PPH45	70	9,5	60,5	20.5	86	60	13	60	97	139.4	23	10	12.9	M10x17	16	18.5	30.5	45	38	20	17	14	105	22.5	M12x35	7909	10473
PPH45A	70	9,5	60,5	20.5	86	60	13	80	128.8	171.2	28.9	10	12.9	M10x17	16	18.5	30.5	45	38	20	17	14	105	22.5	M12x35	9640	13915
PPH55	80	13	67	23.5	100	75	12.5	75	117.7	166.7	27.35	11	12.9	M12x18	17.5	22	29	53	44	23	20	16	120	30	M14x45	11669	15125
PPH55A	80	13	67	23.5	100	75	12.5	95	155.8	204.8	36.4	11	12.9	M12x18	17.5	22	29	53	44	23	20	16	120	30	M14x45	14209	20006

(mm): Parafuso Trilho Kgf C: Carga Dinâmica Kgf CO: Carga Estática PPH..A: Alongado HW: Altura do Patim

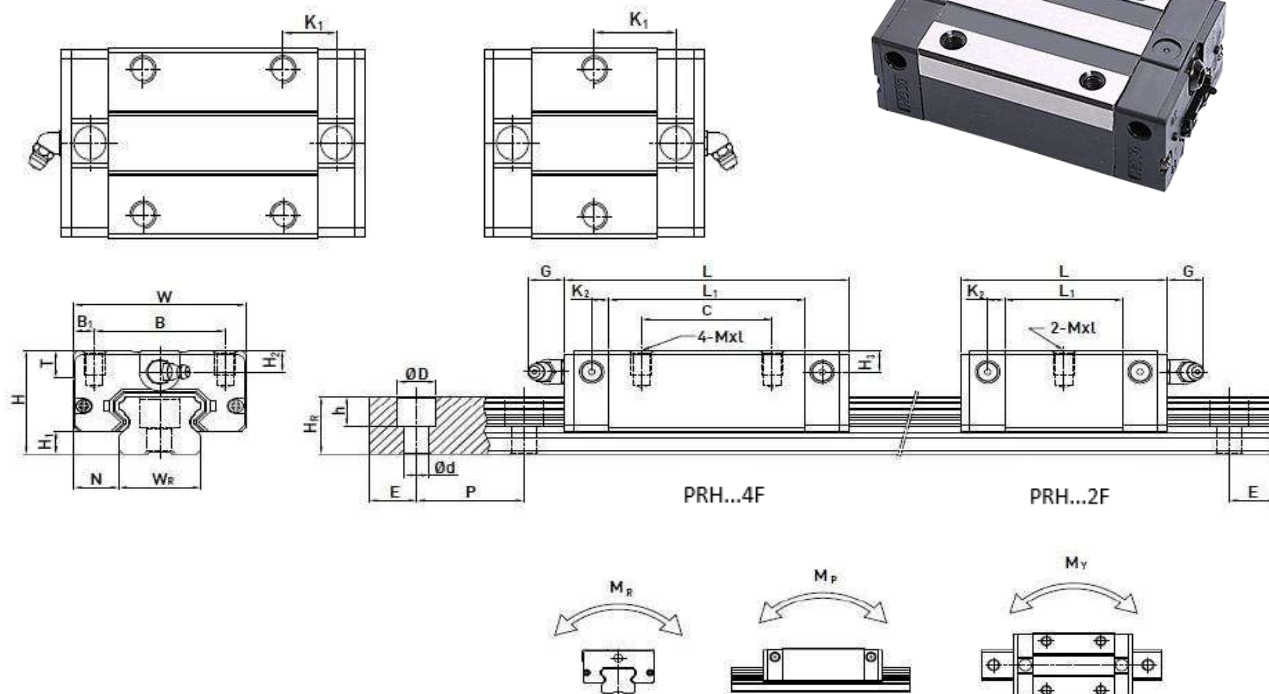
PATIM COM ABA (PPW, PNW, PAW)



Modelo	H	H1	HW	N	W	B	B1	C	L1	L	K1	K2	G	M	T	T1	H2	H3	WR	HR	D	h	d	P	E	(mm)	Kgf C	Kgf CO
PPW15	24	4.3	19.7	16	47	38	4.5	30	39.4	61.4	8	4.85	5.3	M5	6	8.9	3.95	3.7	15	15	7.5	5.3	4.5	60	20	M4x16	1160	1730
PPW20	30	4.6	25.4	21.5	63	53	5	40	50.5	77.5	10.25	6	12	M6	8	10	6	7	20	17.5	9.5	8.5	6	60	20	M5x16	1810	2830
PPW20A	30	4.6	25.4	21.5	63	53	5	40	65.2	92.2	17.6	6	12	M6	8	10	6	7	20	17.5	9.5	8.5	6	60	20	M5x16	2159	3660
PPW25	36	5.5	30.5	23.5	70	57	6.5	45	58	84	11.8	6	12	M8	8	14	6	9	23	22	11	9	7	60	20	M6x20	2730	3720
PPW25A	36	5.5	30.5	23.5	70	57	6.5	45	78.6	104.6	22.1	6	12	M8	8	14	6	9	23	22	11	9	7	60	20	M6x20	3339	5041
PPW30	42	6	36	31	90	72	9	52	70	97.4	14.25	6	12	M10	8.5	16	6.5	10.8	28	26	14	12	9	80	20	M8x25	3950	5321
PPW30A	42	6	36	31	90	72	9	52	93	120.4	25.75	6	12	M10	8.5	16	6.5	10.8	28	26	14	12	9	80	20	M8x25	4820	7052
PPW35	48	7.5	40.5	33	100	82	9	62	80	112.4	14.6	7	12	M10	10.1	18	9	12.6	34	29	14	12	9	80	20	M8x25	5049	7052
PPW35A	48	7.5	40.5	33	100	82	9	62	105.8	138.2	27.5	7	12	M10	10.1	18	9	12.6	34	29	14	12	9	80	20	M8x25	6139	9343
PPW45	60	9.5	50.5	37.5	120	100	10	80	97	139.4	13	10	12.9	M12	15.1	22	8.5	20.5	45	38	20	17	14	105	22.5	M12x35	7909	10473
PPW45A	60	9.5	50.5	37.5	120	100	10	80	128.8	171.2	28.9	10	12.9	M12	15.1	22	8.5	20.5	45	38	20	17	14	105	22.5	M12x35	9640	13912
PPW55	70	13	57	43.5	140	116	12	95	117.7	166.7	17.35	11	12.9	M14	17.5	26.5	12	19	53	44	23	20	16	120	30	M14x45	11669	15125
PPW55A	70	13	57	43.5	140	116	12	95	158.8	204.8	36.4	11	12.9	M14	17.5	26.5	12	19	53	44	23	20	16	120	30	M14x45	14209	20006

(mm): Parafuso Trilho Kgf C: Carga Dinâmica Kgf CO: Carga Estática PPW..A: Alongado HW: Altura do Patim

PATIM SEM ABA – PERFIL BAIXO (PRH)



Modelo	H	H ₁	HW	N	W	B	B ₁	C	L ₁	L	K ₁	K ₂	G	MxL	T	H ₂	H ₃	WR	HR	D	h	d	P	E	(mm)	Kgf C	Kgf CO
PRH15..2F	24	4,5	19,5	9.5	34	26	4	-	23.1	40.1	14.8	3.5	5.7	M4x6	6	5.5	6	15	12.5	6	4.5	3.5	60	20	M3x16	872	896
PRH15..4F								26	39.8	56.8	10.15															1277	1558
PRH20..2F	28	6	22	11	42	32	5	-	29	50	18.75	4.15	12	M5x7	7.5	6	6	20	15.5	9.5	8.5	6	60	20	M5x16	1179	1242
PRH20..4F								32	48.1	69.1	12.3															1682	2060
PRH25..2F	33	7	26	12.5	48	35	6.5	-	35.5	59.1	21.9	4.55	12	M6x9	8	8	8	23	18	11	9	7	60	20	M6x20	1859	1927
PRH25..4F								35	59	82.6	16.15															2654	3211
PRH30..2F	42	10	32	16	60	40	10	-	41.5	69.5	26.75	6	12	M8x12	9	8	9	28	23	11	9	7	80	20	M6x25	2678	2836
PRH30..4F								40	70.1	98.1	21.05															3866	4754
PRH35..2F	48	11	37	18	70	50	10	-	45	75	28.5	7	12	M8x12	10	8.5	8.5	34	27.5	14	12	9	80	20	M8x25	3710	3714
PRH35..4F								50	78	108	20															5218	6044

(mm): Parafuso Trilho

Kgf C : Capacidade Carga Dinâmica

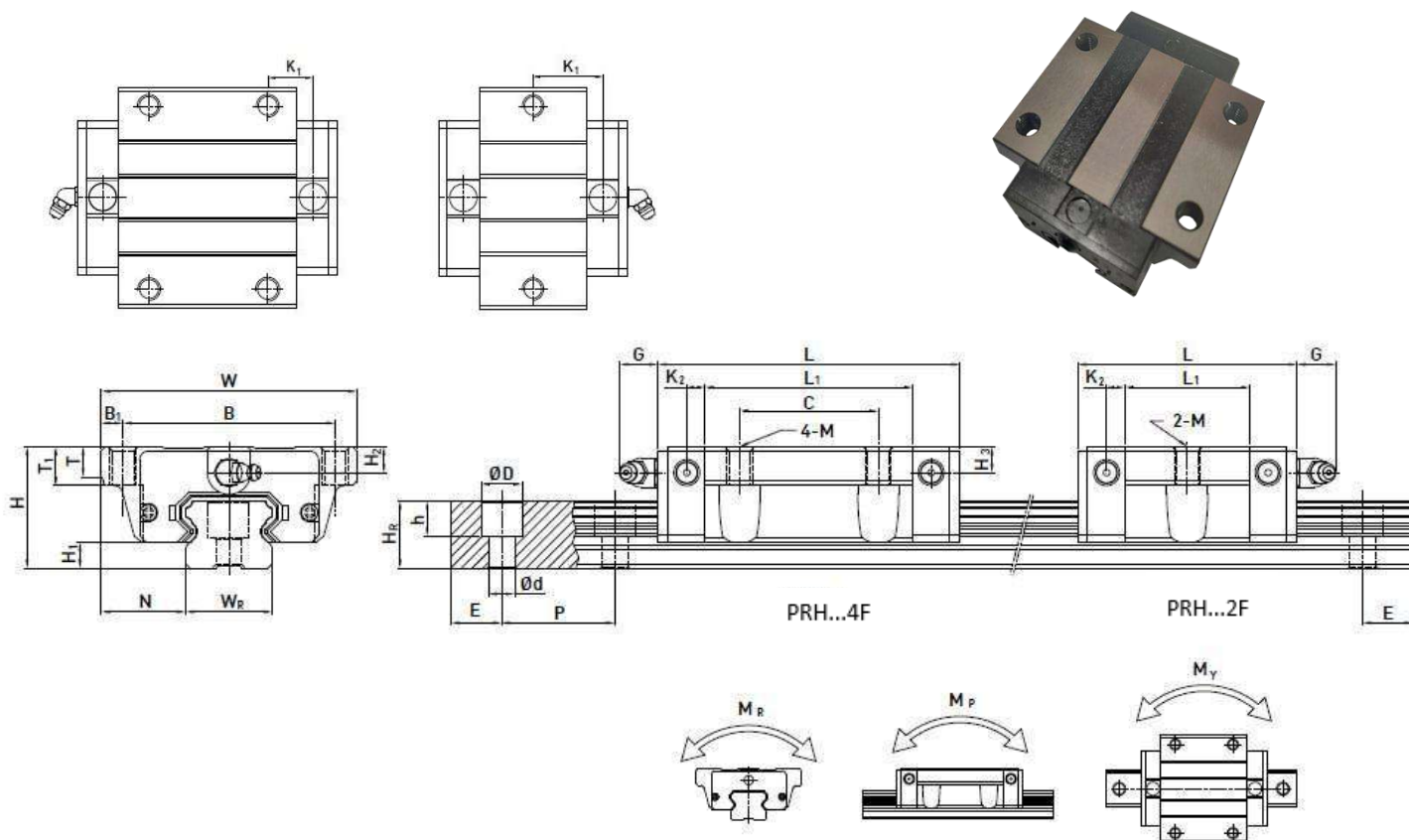
Kgf CO: Capacidade

Carga Estática HW: Altura do patim

PRH..4F: Padrão

PRH..2F: Curto

PATIM COM ABA – PERFIL BAIXO (PRW)



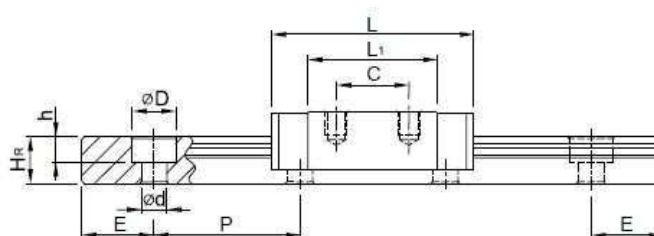
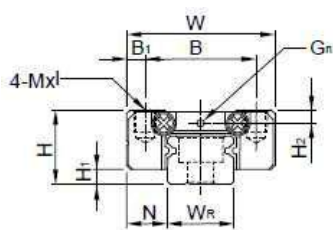
Modelo	H	H ₁	HW	N	W	B	B ₁	C	L ₁	L	K ₁	K ₂	G	M	T	T ₁	H ₂	H ₃	WR	HR	D	h	d	P	E	(mm)	Kgf C	Kgf CO
PRW15..2F	24	4,5	19,5	18,5	52	41	5,5	-	23.1	40.1	14.8	3.5	5.7	M5	5	7	5.5	6	15	12.5	6	4.5	3.5	60	20	M3x16	872	896
PRW15..4F								26	39.8	56.8	10.15																1277	1558
PRW20..2F	28	6	22	19.5	59	49	5	-	29	50	18.75	4.15	12	M6	7	9	6	6	20	15.5	9.5	8.5	6	60	20	M5x16	1179	1242
PRW20..4F								32	48.1	69.1	12.3																1682	2060
PRW25..2F	33	7	26	25	73	60	6.5	-	35.5	59.1	21.9	4.55	12	M8	7.5	10	8	8	23	18	11	9	7	60	20	M6x20	1859	1927
PRW25..4F								35	59	82.6	16.15																2654	3211
PRW30..2F	42	10	32	31	90	72	9	-	41.5	69.5	26.75	6	12	M10	7	10	8	9	28	23	11	9	7	80	20	M6x25	2678	2836
PRW30..4F								40	70.1	98.1	21.05																3866	4754
PRW35..2F	48	11	37	33	100	82	9	-	45	75	28.5	7	12	M10	10	13	8.5	8.5	34	27.5	14	12	9	80	20	M8x25	3710	3714
PRW35..4F								50	78	108	20																5218	6044

(mm): Parafuso Trilho Kgf C : Capacidade Carga Dinâmica Kgf CO: Capacidade Carga Estática

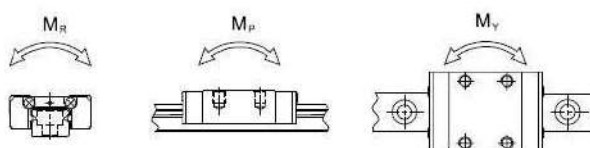
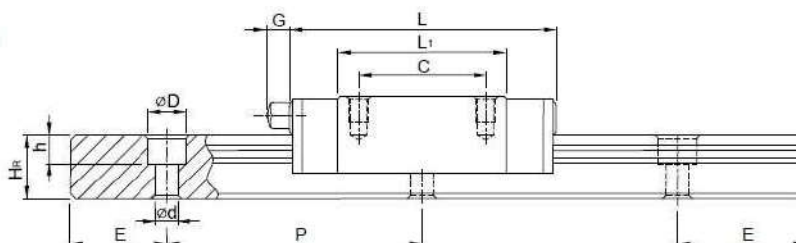
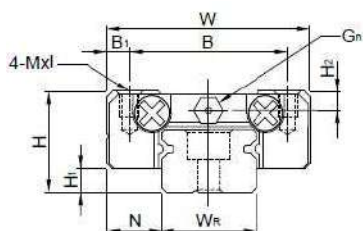
HW: Altura do Patim PRW..4F: Padrão PRW..2F: Curto

Patim Série Mini - PMH

PMH7, PMH9, PMH12



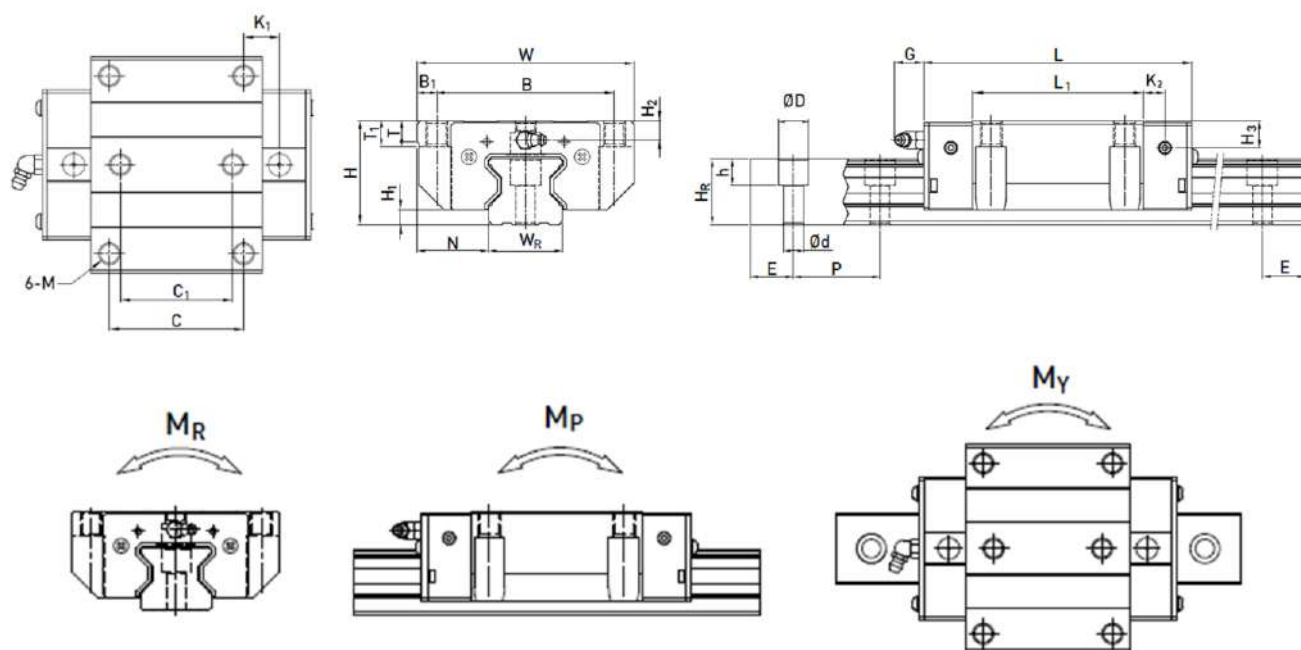
PMH15



Modelo	H	H1	HW	N	W	B	B1	C	L1	L	G	GN	Mxl	H2	WR	HR	D	h	d	P	E	(mm)	Kgf C	Kgf CO
PMH 7C	8	1,5	6,5	5	17	12	2,5	8	13,5	22,5	-	Ø 1,2	M2x2,5	1,5	7	4,8	4,2	2,3	2,4	15	5	M2x6	99	126
PMH 7A	8	1,5	6,5	5	17	12	2,5	13	21,8	30,8	-	Ø 1,2	M2x2,5	1,5	7	4,8	4,2	2,3	2,4	15	5	M2x6	139	199
PMH 9C	10	2	8	5,5	20	15	2,5	10	18,9	28,9	-	Ø 1,4	M3x3	1,8	9	6,5	6	3,5	3,5	20	7,5	M3x8	189	260
PMH 9A	10	2	8	5,5	20	15	2,5	16	29,9	39,9	-	Ø 1,4	M3x3	1,8	9	6,5	6	3,5	3,5	20	7,5	M3x8	260	409
PMH 12C	13	3	10	7,5	27	20	3,5	15	21,7	34,7	-	Ø 2	M3x3,5	2,5	12	8	6	4,5	3,5	25	10	M3x8	289	399
PMH 12A	13	3	10	7,5	27	20	3,5	20	32,4	45,4	-	Ø 2	M3x3,5	2,5	12	8	6	4,5	3,5	25	10	M3x8	379	599
PMH 15C	16	4	12	8,5	32	25	3,5	20	26,7	42,1	4,5	M3	M3x4	3	15	10	6	4,5	3,5	40	15	M3x10	470	570
PMH 15A	16	4	12	8,5	32	25	3,5	25	43,4	58,8	4,5	M3	M3x4	3	15	10	6	4,5	3,5	40	15	M3x10	649	928

PMH..C: Patim tamanho normal PMH..A: Patim tamanho alongado (mm): Parafuso Trilho
HW: Altura do Patim Kgf C: Carga Dinâmica Kgf CO: Carga Estática

PATIM DE ROLOS COM ABA (PROW)



Modelo	H	H ₁	HW	N	W	B	B ₁	C	C ₁	L ₁	L	K ₁	K ₂	G	M	T	T ₁	H ₂	H ₃	W _R	H _R	D	h	d	P	E	(mm)	Kgf C	Kgf CO
PROW15	24	4	20	16	47	38	4.5	30	26	45	68	11.4	4.7	5.3	M5	6	6.95	3.6	6.1	15	16.5	7.5	5.7	4.5	30	20	M4x16	1152	2443
PROW20	30	5	25	21.5	63	53	5	40	35	57.5	86	13.8	6	5.3	M6	8	10	4.3	4.3	20	21	9.5	8.5	6	30	20	M5x20	2172	4762
PROW20A	30	5	25	21.5	63	53	5	40	35	77.5	106	23.8	6	5.3	M6	8	10	4.3	4.3	20	21	9.5	8.5	6	30	20	M5x20	2743	6424
PROW25	36	5,5	30,5	23.5	70	57	6.5	45	40	64.5	97.9	15.75	7.25	12	M8	9.5	10	6.2	6	23	23.6	11	9	7	30	20	M6x20	2824	5822
PROW25A	36	5,5	30,5	23.5	70	57	6.5	45	40	81	114.4	24	7.25	12	M8	9.5	10	6.2	6	23	23.6	11	9	7	30	20	M6x20	3456	7484
PROW30	42	6	36	31	90	72	9	52	44	71	109.8	17.5	8	12	M10	9.5	10	6.5	7.3	28	28	14	12	9	40	20	M8x25	3987	8371
PROW30A	42	6	36	31	90	72	9	52	44	93	131.8	28.5	8	12	M10	9.5	10	6.5	7.3	28	28	14	12	9	40	20	M8x25	4904	10707
PROW35	48	6,5	41,5	33	100	82	9	62	52	79	124	16.5	10	12	M10	12	13	9	12.6	34	30.2	14	12	9	40	20	M8x25	5893	10727
PROW35A	48	6,5	41,5	33	100	82	9	62	52	106.9	151.5	30.25	10	12	M10	12	13	9	12.6	34	30.2	14	12	9	40	20	M8x25	7454	14480
PROW45	60	8	52	37.5	120	100	10	80	60	106	153.2	21	10	12.9	M12	14	15	10	14	45	38	20	17	14	52.5	22.5	M12x35	9442	18232
PROW45A	60	8	52	37.5	120	100	10	80	60	139.8	187	37.9	10	12.9	M12	14	15	10	14	45	38	20	17	14	52.5	22.5	M12x35	11828	23545
PROW55	70	10	60	43.5	140	116	12	95	70	125.5	183.7	27.75	12.5	12.9	M14	16	17	12	17.5	53	44	23	20	16	60	30	M14x45	13307	25696
PROW55A	70	10	60	43.5	140	116	12	95	70	173.8	232	51.9	12.5	12.9	M14	16	17	12	17.5	53	44	23	20	16	60	30	M14x45	17110	35486

PROW: Patim tamanho normal

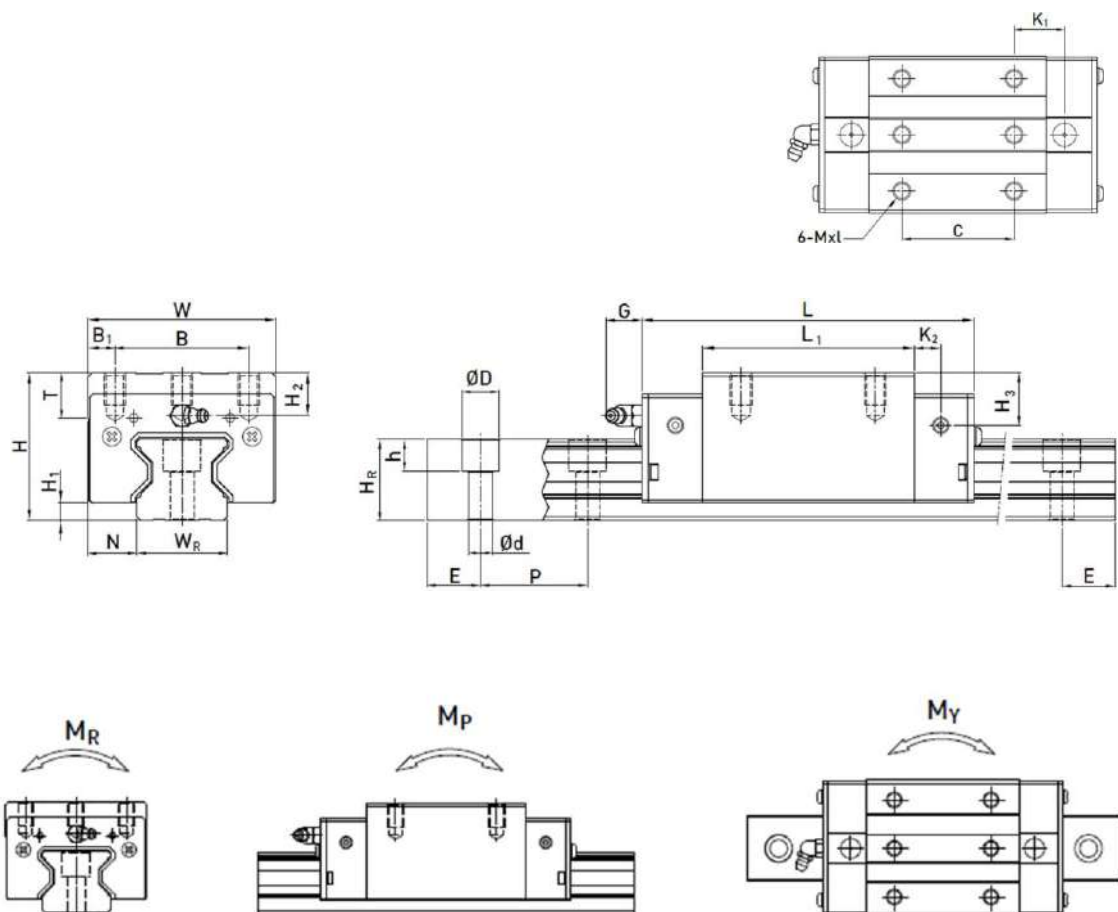
PROW..A: Patim tamanho alongado (mm):Parafuso Trilho

HW: Altura do Patim

Kgf C: Carga Dinâmica

Kgf CO: Carga Estática

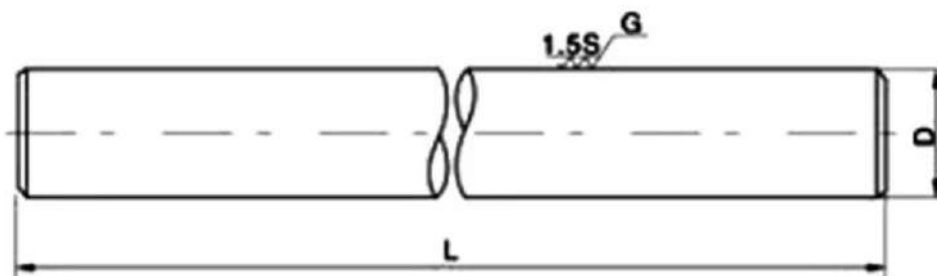
PATIM DE ROLOS SEM ABA (PROH)



Modelo	H	H ₁	HW	N	W	B	B ₁	C	L ₁	L	K ₁	K ₂	G	M	T	H ₂	H ₃	WR	HR	D	h	d	P	E	(mm)	Kgf C	Kgf CO
PROH15	28	4	24	9.5	34	26	4	26	45	68	13.4	4.7	5.3	M4x8	6	7.6	10.1	15	16.5	7.5	5.7	4.5	30	20	M4x16	1152	2447
PROH20	34	5	29	12	44	32	6	36	57.5	86	15.8	6	5.3	M5x8	8	8.3	8.3	20	21	9.5	8.5	6	30	20	M5x20	2172	4762
PROH20A	34	5	29	12	44	32	6	50	77.5	106	18.8	6	5.3	M5x8	8	8.3	8.3	20	21	9.5	8.5	6	30	20	M5x20	2743	6424
PROH25	40	5,5	34,5	12.5	48	35	6.5	35	64.5	97.9	20.75	7.25	12	M6x8	9.5	10.2	10	23	23.6	11	9	7	30	20	M6x20	2824	5822
PROH25A	40	5,5	34,5	12.5	48	35	6.5	50	81	114.4	21.5	7.25	12	M6x8	9.5	10.2	10	23	23.6	11	9	7	30	20	M6x20	3456	7484
PROH30	45	6	39	16	60	40	10	40	71	109.8	23.5	8	12	M8x10	9.5	9.5	10.3	28	28	14	12	9	40	20	M8x25	3987	8371
PROH30A	45	6	39	16	60	40	10	60	93	131.8	24.5	8	12	M8x10	9.5	9.5	10.3	28	28	14	12	9	40	20	M8x25	4904	10707
PROH35	55	6,5	48,5	18	70	50	10	50	79	124	22.5	10	12	M8x12	12	16	19.6	34	30.2	14	12	9	40	20	M8x25	5694	10727
PROH35A	55	6,5	48,5	18	70	50	10	72	106.5	151.5	25.25	10	12	M8x12	12	16	19.6	34	30.2	14	12	9	40	20	M8x25	7454	14480
PROH45	70	8	62	20.5	86	60	13	60	106	153.2	31	10	12.9	M10x17	16	20	24	45	38	20	17	14	52.5	22.5	M12x35	9442	18232
PROH45A	70	8	62	20.5	86	60	13	80	139.8	187	37.9	10	12.9	M10x17	16	20	24	45	38	20	17	14	52.5	22.5	M12x35	11828	23545
PROH55	80	10	70	23.5	100	75	12.5	75	125.5	183.7	37.75	12.5	12.9	M12x18	17.5	22	27.5	53	44	23	20	16	60	30	M14x45	13307	25696
PROH55A	80	10	70	23.5	100	75	12.5	95	173.8	232	51.9	12.5	12.9	M12x18	17.5	22	27.5	53	44	23	20	16	60	30	M14x45	17110	35486

PROH: Patim tamanho normal PROH..A: Patim tamanho alongado (mm):Parafuso Trilho
HW: Altura do Patim Kgf C: Carga Dinâmica Kgf CO: Carga Estática

Eixos Lineares



Dureza: HRC60±2

Precisão: g6, h6

Rugosidade: menos de 1.5µm (Rmax)

Espessura Camada Dureza: 0.8 ~3.0mm

Retidão: a cada 100mm menos que 5µm

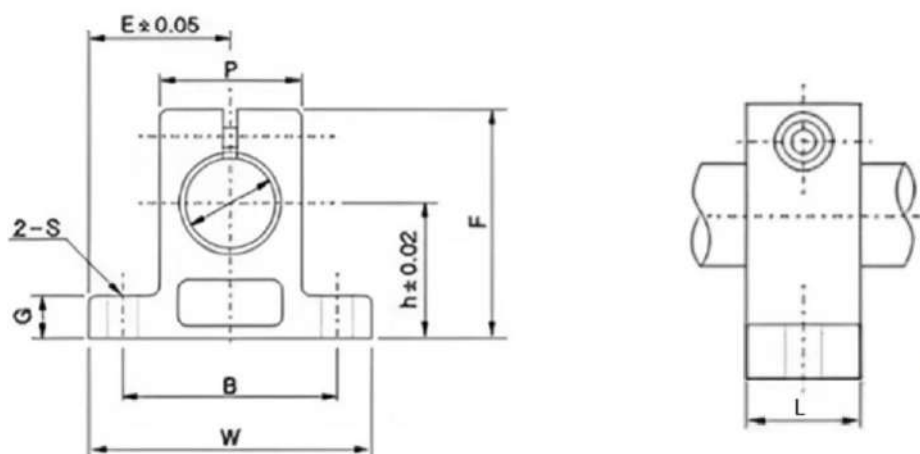
Comprimento Máximo (L):

4.000mm

Disponíveis nos diâmetros (D):

Ø 8 ao Ø 100 mm

Mancal Fixo SK

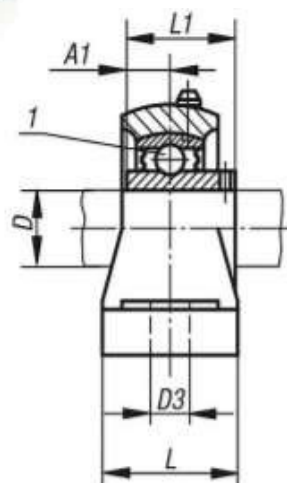
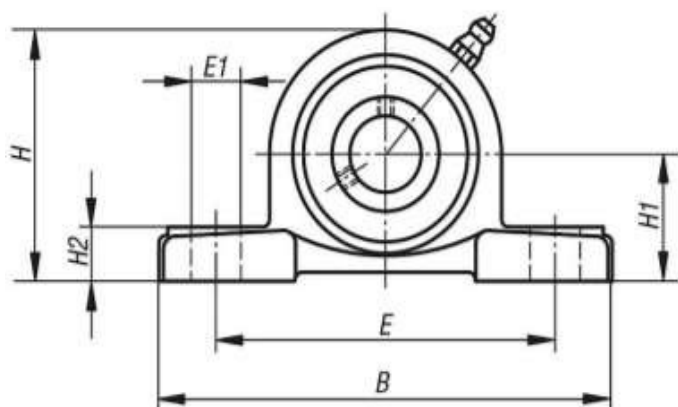


Modelo	d	h	E	W	L	F	G	P	B	S	T1	T2	(g)
SK8	8	20	21	42	14	32.8	6	18	32	5.5	M4	M5	24
SK10	10	20	21	42	14	32.8	6	18	32	5.5	M4	M5	24
SK12	12	23	21	42	14	37.5	6	20	32	5.5	M4	M5	30
SK13	13	23	21	42	14	37.5	6	20	32	5.5	M4	M5	30
SK16	16	27	24	48	16	44	8	25	38	5.5	M4	M5	40
SK20	20	31	30	60	20	51	10	30	45	6.6	M5	M6	70
SK25	25	35	35	70	24	60	12	38	56	6.6	M6	M6	130
SK30	30	42	42	84	28	70	12	44	64	9	M6	M8	180
SK35	35	50	49	98	32	83	16	50	74	11	M8	M10	270
SK40	40	60	57	114	36	96	15	60	90	11	M8	M10	420
SK50	50	70	63	126	40	120	18	74	100	14	M12	M12	750
SK60	60	80	74	148	45	136	18	90	120	14	M12	M12	1100

T1: Bloqueio Parafuso

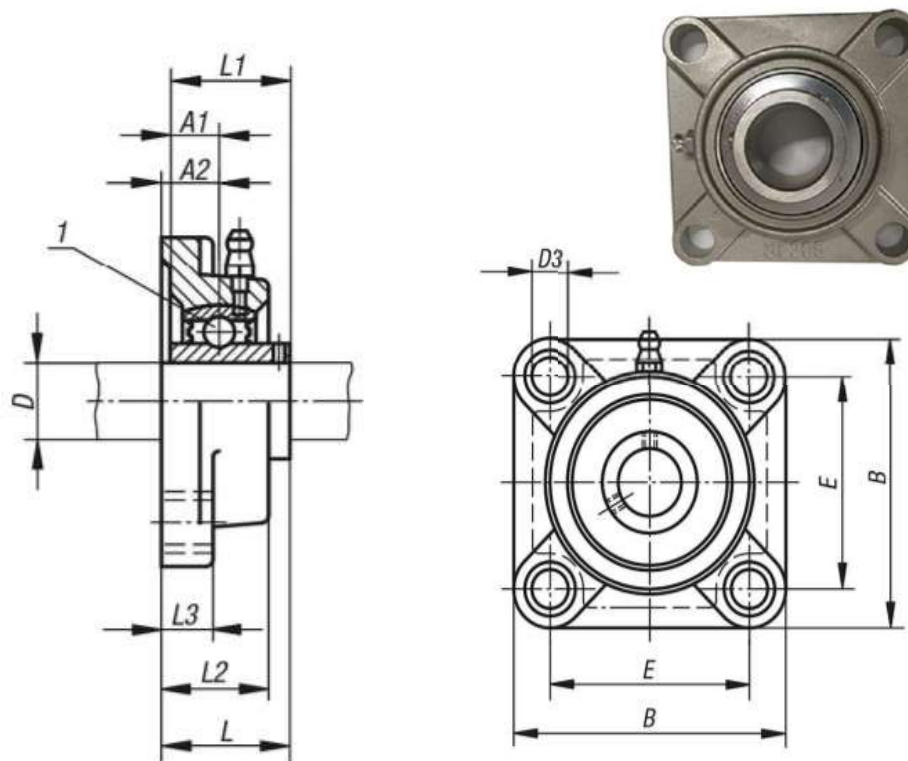
T2: Aperto Parafuso

Mancal UCP



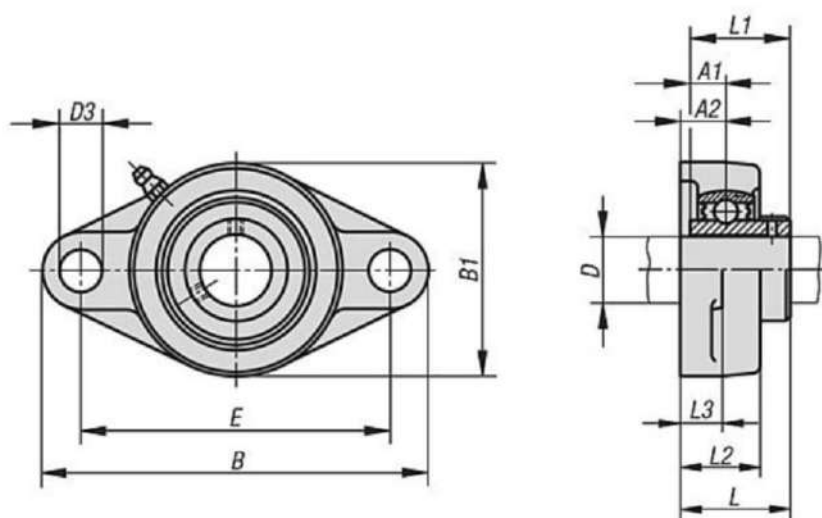
Modelo	D	A1	B	D3	E	E1	H	H1	H2	L	L1	Parafuso
UCP201	12	12.7	127	13	95	19	62	30.2	14	38	31	M10
UCP202	15	12.7	127	13	95	19	62	30.2	14	38	31	M10
UCP203	16/17	12.7	127	13	95	19	61	30.2	14	38	31	M10
UCP204	20	14.3	127	13	95	19	64	33.3	15	38	31	M10
UCP205	25	14.3	140	13	105	19	71	36.5	15	38	34.1	M10
UCP206	30	15.9	165	17	121	20	84	42.9	17	48	38.1	M14
UCP207	35	17.5	167	17	127	20	93	47.6	18	48	42.9	M14
UCP208	40	19	184	17	137	20	100	49.2	18	54	49.2	M14
UCP209	45	19	190	17	146	20	106	54	20	54	49.2	M14
UCP210	50	19	200	20	159	23	113	57.2	21	60	51.6	M16
UCP211	55	22.2	219	20	171	23	125	63.5	23	60	55.6	M16
UCP212	60	25.4	241	20	184	23	138	69.8	25	70	65.1	M16

Mancal UCF



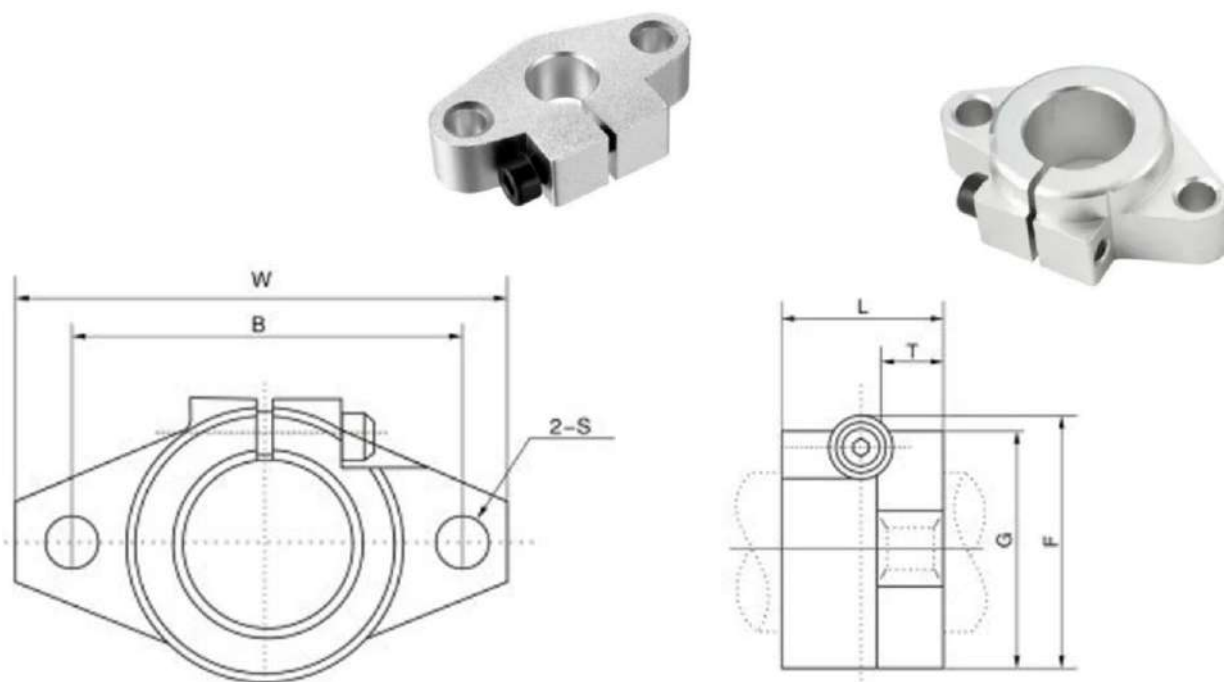
Modelo	D	A1	A2	B	D3	E	L	L1	L2	L3	Parafuso
UCF201	12	12.7	15	86	12	64	33.3	31	25.5	12	M10
UCF202	15	12.7	15	82	12.7	64	33.3	31	24.5	11	M10
UCF203	16/17	12.7	15	75	12	54	32.3	27.5	22	12.8	M10
UCF204	20	14.3	15	83	12.7	64	33.3	31.3	24	11	M10
UCF205	25	14.3	16	95	12	70	35.8	34.1	27	13	M10
UCF206	30	15.9	18	108	12	83	40.2	38.1	31	13.3	M10
UCF207	35	17.5	19	117	14	92	44.4	42.9	34	14	M12
UCF208	40	19	21	130	16	102	51.2	49.2	36	16	M14
UCF209	45	19	22	137	16	105	52.2	49.2	38	16	M14
UCF210	50	19	22	143	16	111	54.6	51.6	40	16	M14
UCF211	55	22.2	25	162	19	130	58.4	55.6	43	19	M16
UCF212	60	25.4	29	175	19	143	68.7	65.1	48	19	M16

Mancal UCFL



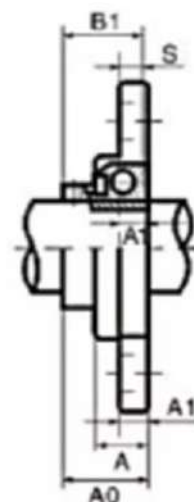
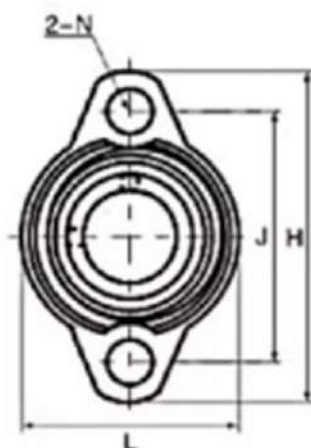
Modelo	D	A1	A2	B	B1	D3	E	L	L1	L2	L3	ROLAMENTO	CAIXA	Parafuso
UCFL 201	12	12,7	17	96.5	55	12	76	33,3	27.5	25.5	12	UC 201	FL 203	M10
UCFL 202	15	12,7	17	96.5	55	12	76	33,3	27.5	25.5	12	UC202	FL 203	M10
UCFL 203	16	12,7	17	96.5	55	12	76	33,3	27.5	25.5	12	UC 203	FL 203	M10
UCFL 204	20	12,7	19	112	59	12	90	33,3	31	25.5	13	UC 204	FL 204	M10
UCFL 205	25	14,3	20	130	67.5	16	98	35,8	34	27	14	UC 205	FL 205	M14
UCFL 206	30	15,9	22	147	78	16	117	40,2	38,1	31	14	UC 206	FL 206	M14

Mancal SHF



Modelo	d	W	L	T	F	G	B	S	J
SHF 8	8	43	10	5	24	20	32	5.5	M5
SHF 10	10	43	10	5	24	20	32	5.6	M5
SHF12	12	47	13	7	28	25	36	5.5	M4
SHF16	16	50	16	8	31	28	40	5.5	M4
SHF20	20	60	20	8	37	34	48	7	M5
SHF25	25	70	25	10	42	40	56	7	M5
SHF30	30	80	30	12	50	46	64	9	M6
SHF35	35	92	35	14	58	50	72	12	M8
SHF40	40	102	40	16	67	56	80	12	M10
SHF50	50	122	50	19	83	70	96	14	M12
SHF60	60	140	60	23	95	82	112	14	M12

Mancal KFL



Modelo	d	H	J	A1	A2	A	N	L	A0	B	S	PARAFUSO
KFL08	8	48	36	4	4	8.5	5	27	12	11	3	M5
KFL000	10	60	45	5.5	5.5	11.5	7	36	15.5	14	4	M6
KFL001	12	63	48	5.5	5.5	11.5	7	38	16	14.5	6.5	M6
KFL002	15	67	53	6.5	6.5	13	7	42	16.5	16.5	4.5	M6
KFL003	17	71	56	7	7	14	7	46	19.5	17.5	5	M6
KFL004	20	90	71	8	8	16	10	55	23	21	6	M8
KFL005	25	95	75	8	8	16	10	60	24.5	22.5	6	M8
KFL006	30	112	85	9	9	18	13	70	27	24.5	6.5	M10
KFL007	35	122	96	11	11	21	14	80	33	30	8	M12

Pillow Block Fechado (SCS..UU)

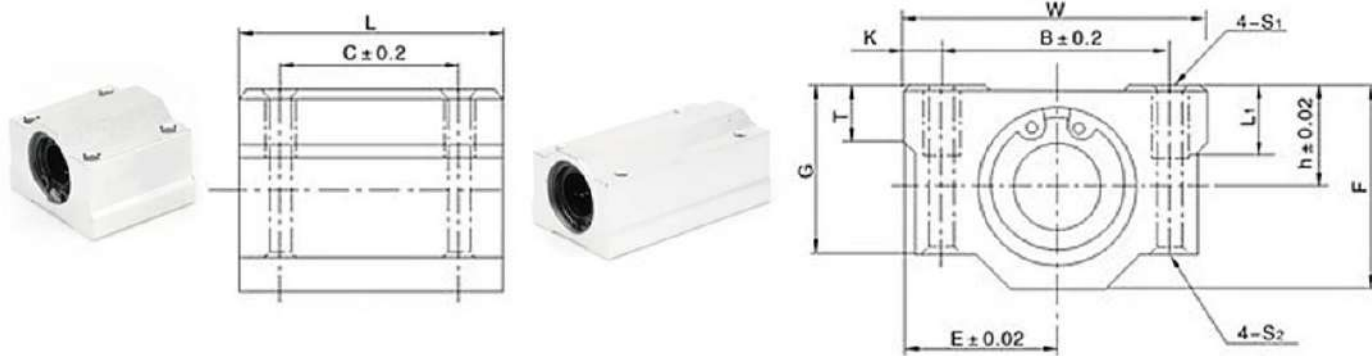


Modelo	T	h	E	W	L	F	G	B	C	K	S1	S2	L1	Kgf C	Kgf CO
SCS6UU	6	9	15	30	25	18	15	20	15	5	M4	3.4	8	21	27
SCS8UU	6	11	17	34	30	22	18	24	18	5	M4	3.4	8	28	40
SCS10UU	8	13	20	40	35	26	21	28	21	6	M5	4.3	12	38	56
SCS12UU	8	15	21	42	36	28	24	30.5	26	5.75	M5	4.3	12	52	80
SCS13UU	8	15	22	44	39	30	24.5	33	26	5.5	M5	4.3	12	52	80
SCS16UU	9	19	25	50	44	38.5	32.5	36	34	7	M5	4.3	12	79	120
SCS20UU	11	21	27	54	50	41	35	40	40	7	M6	5.2	12	90	140
SCS25UU	12	26	38	76	67	51.5	42	54	50	11	M8	7	18	100	160
SCS30UU	15	30	39	78	72	59.5	49	58	58	10	M8	7	18	160	279
SCS35UU	18	34	45	90	80	68	54	70	60	10	M8	7	18	170	320
SCS40UU	20	40	51	102	90	78	62	80	60	11	M10	8.7	25	220	410
SCS50UU	25	52	61	122	110	102	80	100	80	11	M10	8.7	25	389	809
SCS60UU	30	58	66	132	122	114	94	108	90	12	M10	10.7	25	479	1019

Kgf C: Carga Dinâmica

Kgf CO: Carga Estática

Pillow Block Fechado Alongado (SCS..LUU)

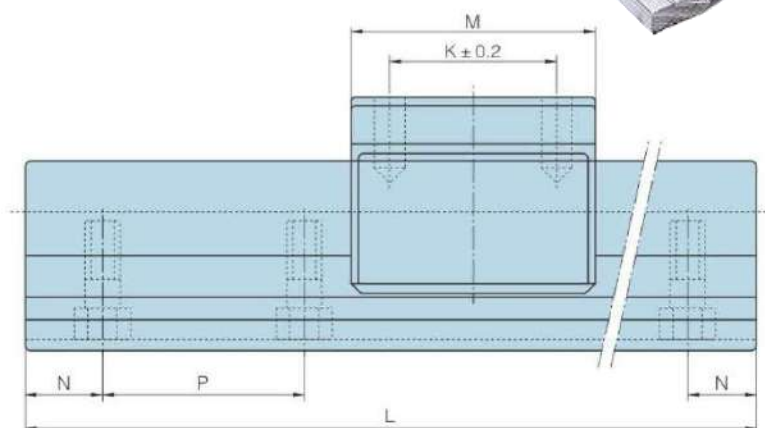
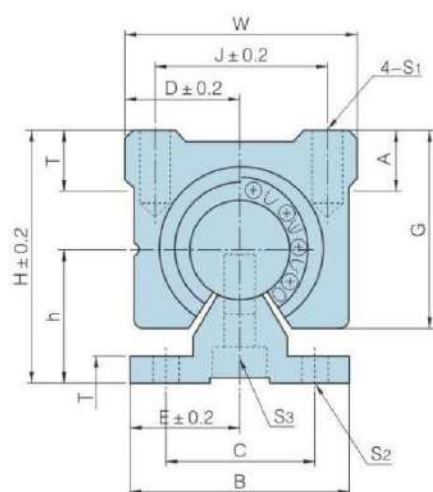


Modelo	T	h	E	W	L	F	G	B	C	K	S1	S2	L1	Kgf C	Kgf CO
SCS6UU	6	9	15	30	25	18	15	20	15	5	M4	3.4	8	21	27
SCS8UU	6	11	17	34	30	22	18	24	18	5	M4	3.4	8	28	40
SCS10UU	8	13	20	40	35	26	21	28	21	6	M5	4.3	12	38	56
SCS12UU	8	15	21	42	36	28	24	30.5	26	5.75	M5	4.3	12	52	80
SCS13UU	8	15	22	44	39	30	24.5	33	26	5.5	M5	4.3	12	52	80
SCS16UU	9	19	25	50	44	38.5	32.5	36	34	7	M5	4.3	12	79	120
SCS20UU	11	21	27	54	50	41	35	40	40	7	M6	5.2	12	90	140
SCS25UU	12	26	38	76	67	51.5	42	54	50	11	M8	7	18	100	160
SCS30UU	15	30	39	78	72	59.5	49	58	58	10	M8	7	18	160	279
SCS35UU	18	34	45	90	80	68	54	70	60	10	M8	7	18	170	320
SCS40UU	20	40	51	102	90	78	62	80	60	11	M10	8.7	25	220	410
SCS50UU	25	52	61	122	110	102	80	100	80	11	M10	8.7	25	389	809
SCS60UU	30	58	66	132	122	114	94	108	90	12	M10	10.7	25	479	1019

Kgf C: Carga Dinâmica

Kgf CO: Carga Estática

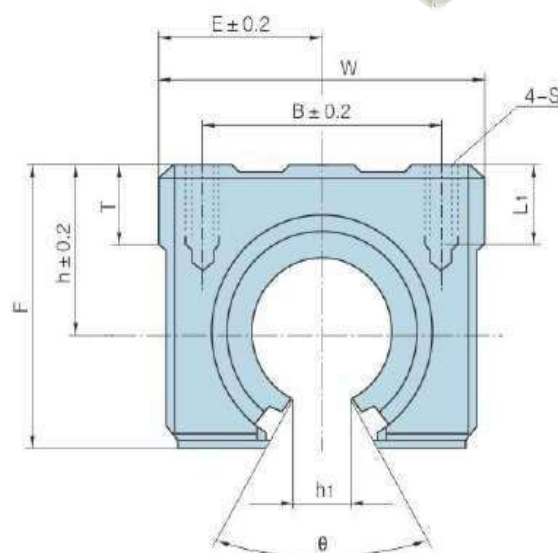
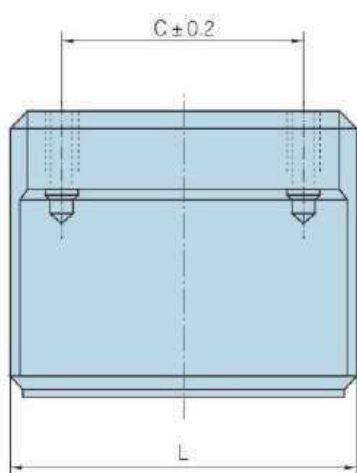
Eixo Suportado T (SBR)



Modelo	EIXO	D	h	H	E	W	G	A	B	T	M	J	K	C	S ₁	S ₂	S ₃	P
SBR 12	Ø12	20.5	22.5	40	15	41	28	9	30	4	39	28	26	22	M5	Ø4	M4x16	100
SBR 16	Ø16	22.5	25	45	50	45	33	9	40	5	45	32	30	30	M5	Ø5.5	M6x20	100
SBR 20	Ø20	24	27	50	22.5	48	39	11	45	5	50	35	35	30	M6	Ø5.5	M6x20	100
SBR 25	Ø25	30	38	60	27.5	50	47	14	55	6	65	40	40	35	M6	Ø6.6	M6x25	100
SBR 30	Ø30	35	37	70	30	70	56	15	60	7	70	50	50	40	M8	Ø6.6	M8x30	100
SBR 40	Ø40	45	48	90	37.5	90	72	20	75	9	90	65	65	55	M10	Ø9	M8x40	100
SBR 50	Ø50	60	62	115	47.5	120	90	25	90	11	110	94	80	70	M10	Ø11	M10x50	100

*Medida entre furos (P) exclusiva da Prado Automação

Pillow Block Aberto (SBR..UU)

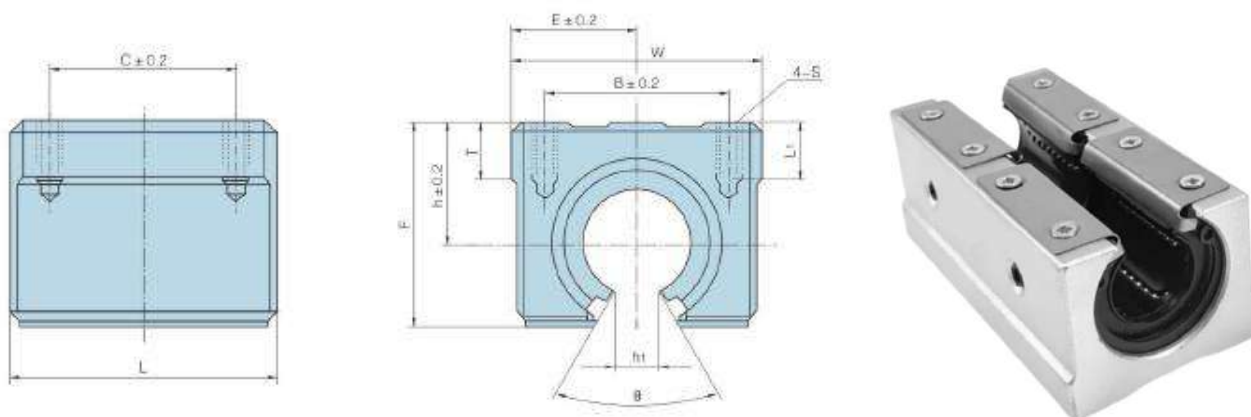


Modelo	h	E	W	L	F	h1	Ø	B	C	S	L1	T	Rolamento	Kgf C	Kgf CO	(g)
SBR12UU	17.5	20.5	41	39	27	7.5	80°	28	26	M5	10	9	LM12UU-OP	43	62	100
SBR13UU	17	20	40	39	27.6	8.5	80°	28	28	M5	10	8	LM13UU-OP	52	80	100
SBR16UU	20	22.5	45	45	33	10	80°	32	30	M5	12	9	LM16UU-OP	79	120	150
SBR20UU	23	24	48	50	39	10	60°	35	35	M6	12	11	LM20UU-OP	90	140	200
SBR25UU	27	30	60	65	47	11.5	50°	40	40	M6	12	14	LM25UU-OP	100	160	450
SBR30UU	33	35	70	70	56	14	50°	50	50	M8	18	15	LM30UU-OP	160	279	630
SBR35UU	37	40	80	80	63	16	50°	55	55	M8	18	18	LM35UU-OP	170	320	925
SBR40UU	42	45	90	90	72	19	50°	65	65	M10	20	20	LM40UU-OP	220	410	1330
SBR50UU	53	60	120	110	92	23	50°	94	80	M10	20	25	LM50UU-OP	389	809	3000

Kgf C: Carga Dinâmica

Kgf CO: Carga Estática

Pillow Block Aberto Alongado (SBR..LUU)

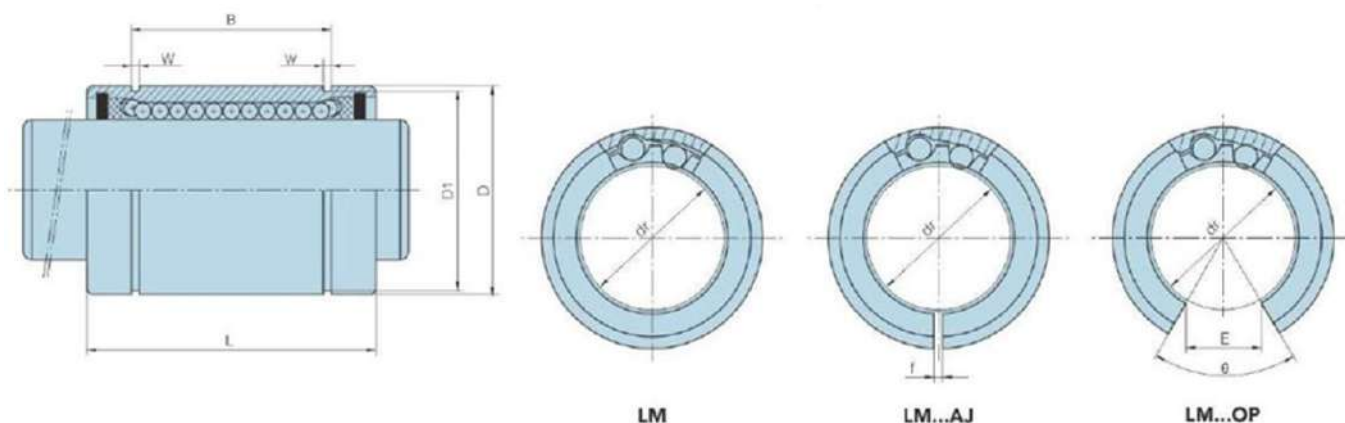


Modelo	h	E	W	L	F	h1	Ø	B	C	S	L1	T	ROLAMENTO	Kgf C	Kgf CO	(g)
SBR12 LUU	17.5	20.5	41	78	27	7.5	80°	28	50	M5	10	9	LM12UU-OP	122	203	180
SBR16 LUU	20	22.5	45	85	33	10	80°	32	60	M5	12	9	LM16UU-OP	157	240	300
SBR20 LUU	23	24	48	96	39	10	60°	35	70	M6	12	11	LM20UU-OP	178	279	400
SBR25 LUU	27	30	60	130	47	11.5	50°	40	100	M6	12	14	LM25UU-OP	199	320	900
SBR30 LUU	33	35	70	140	56	14	50°	50	110	M8	18	15	LM30UU-OP	320	558	1260
SBR40 LUU	42	45	90	175	72	19	50°	65	140	M10	20	20	LM40UU-OP	440	819	2660
SBR50 LUU	53	60	120	215	92	23	50°	94	160	M10	20	20	LM50UU-OP	779	1619	6000

Kgf C: Carga Dinâmica

Kgf CO: Carga Estática

Rolamento LM – LM..OP



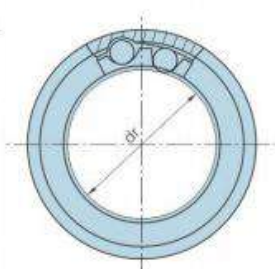
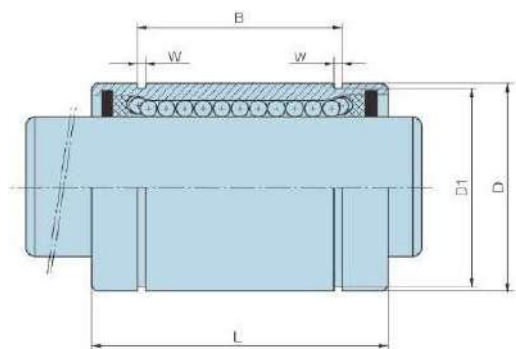
LM	N	LM...AJ	LM...OP	Ø Interno dr	Tolerância	Ø Externo D	Tolerância	L	B	W	D1	f	E	Ø	Kgf C	Kgf Co	Massa (g)
LM4UU	4	-	-	4	0 - 0.005	8	0 - 0.009	12	-	-	-	-	-	-	9	13	1.9
LM5UU	4	-	-	5	0 - 0.005	10	0 - 0.009	15	10.2	1.1	9.6	-	-	-	17	21	4
LM6UU	4	LM6-AJ	-	6	0 - 0.006	12	0 - 0.011	19	13.5	1.1	11.5	1	-	-	21	27	8
LM8UU	4	LM8-AJ	-	8	0 - 0.006	15	0 - 0.011	24	17.5	1.1	14.3	1	-	-	28	40	16
LM10UU	4	LM10-AJ	LM10-OP	10	0 - 0.006	19	0 - 0.013	29	22	1.3	18	1	6.8	80°	38	56	30
LM12UU	5	LM12-AJ	LM12-OP	12	0 - 0.006	21	0 - 0.013	30	23	1.3	20	1.5	8	80°	52	80	31.5
LM13UU	5	LM13-AJ	LM13-OP	13	0 - 0.006	23	0 - 0.013	32	23	1.3	22	1.5	9	80°	52	80	43
LM16UU	5	LM16-AJ	LM16-OP	16	0 - 0.006	28	0 - 0.013	37	26.5	1.6	27	1.5	11	80°	79	120	69
LM20UU	6	LM20-AJ	LM20-OP	20	0 - 0.007	32	0 - 0.016	42	30.5	1.6	30.5	1.5	11	60°	90	140	87
LM25UU	6	LM25-AJ	LM25-OP	25	0 - 0.007	40	0 - 0.016	59	41	1.85	38	2	12	50°	100	160	220
LM30UU	6	LM30-AJ	LM30-OP	30	0 - 0.007	45	0 - 0.016	64	44.5	1.85	43	2.5	15	50°	160	279	250
LM35UU	6	LM35-AJ	LM35-OP	35	0 - 0.008	52	0 - 0.019	70	49.5	2.1	49	2.5	17	50°	170	320	390
LM40UU	6	LM40-AJ	LM40-OP	40	0 - 0.008	60	0 - 0.019	80	60.5	2.1	57	3	20	50°	220	410	585
LM50UU	6	LM50-AJ	LM50-OP	50	0 - 0.008	80	0 - 0.019	100	74	2.6	76.5	3	25	50°	390	810	1580
LM60UU	6	LM60-AJ	LM60-OP	60	0 - 0.009	90	0 - 0.022	110	85	3.15	86.5	3	30	50°	479	1020	2000
LM80UU	6	LM80-AJ	LM80-OP	80	0 - 0.009	120	0 - 0.022	140	105.5	4.15	116	3	40	50°	749	1632	4420
LM100UU	6	LM100-AJ	LM100-OP	100	0 - 0.010	150	0 - 0.025	175	125.5	4.15	145	3	50	50°	1440	3549	8600

N: Circuitos

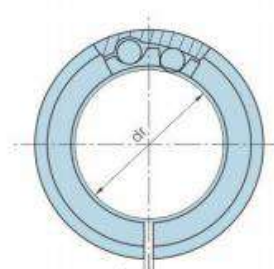
Kgf C: Carga Dinâmica

Kgf CO: Carga Estática

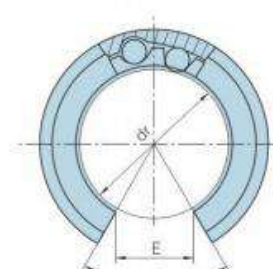
Rolamento LME – LME..OP



LME



LME..AJ



LME..OP

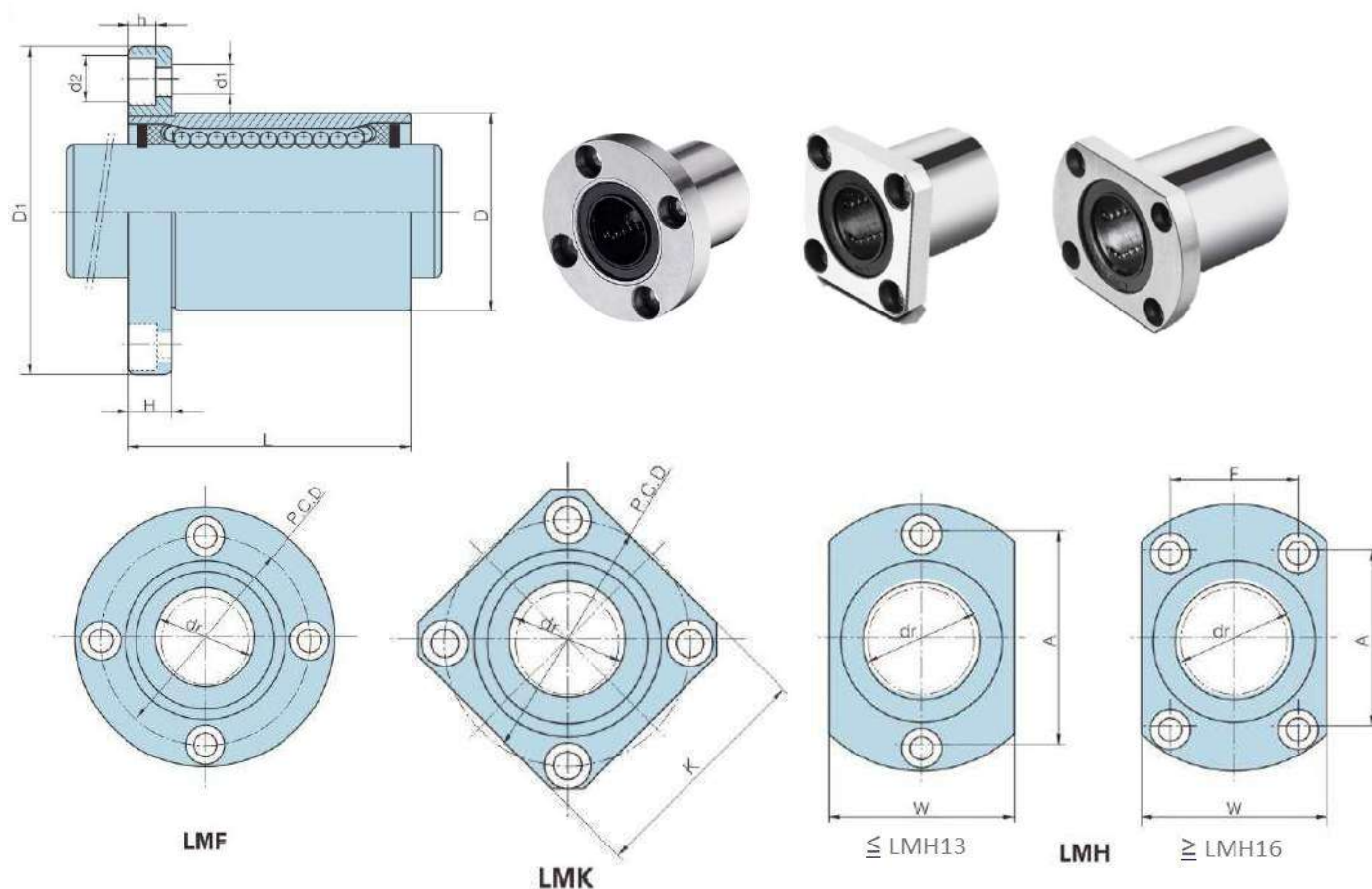
LME...UU	N	LME...AJ	LME...OP	dr	D	L	B	W	D1	f	E	φ	Kgf C	Kgf Co	Massa (g)
LME4UU	4	-	-	4	8	12	-	-	-	-	-	-	9	13	1.9
LME5UU	4	LME5-AJ	-	5	12	22	14.5	1.1	11.5	1	-	-	21	27	11
LME8UU	4	LME8-AJ	-	8	16	25	16.5	1.1	15.2	1	-	-	27	41	20
LME10UU	4	LME10-AJ	LME10-OP	10	19	26	22	1.3	18	1	6.8	80°	38	56	29.5
LME12UU	5	LME12-AJ	LME12-OP	12	22	32	22.9	1.3	21	1.5	7.5	78°	52	80	41
LME16UU	5	LME16-AJ	LME16-OP	16	26	36	24.9	1.3	24.9	1.5	10	78°	59	91	57
LME20UU	6	LME20-AJ	LME20-OP	20	32	45	31.5	1.6	30.3	2	10	60°	88	140	91
LME25UU	6	LME25-AJ	LME25-OP	25	40	58	44.1	1.85	37.5	2	12.5	60°	100	160	215
LME30UU	6	LME30-AJ	LME30-OP	30	47	68	52.1	1.85	44.5	2	12.5	50°	160	279	325
LME40UU	6	LME40-AJ	LME40-OP	40	62	80	60.6	2.15	59	3	16.8	50°	220	410	705
LME50UU	6	LME50-AJ	LME50-OP	50	75	100	77.6	2.65	72	3	21	50°	390	810	1130
LME60UU	6	LME60-AJ	LME60-OP	60	90	125	101.7	3.15	86.5	3	27.2	54°	479	999	2050
LME80UU	6	LME80-AJ	LME80-OP	80	120	165	133.7	4.15	116	3	36.3	54°	749	1632	5140

N: Circuitos

Kgf C: Carga Dinâmica

Kgf CO: Carga Estática

Rolamentos LMF – LMK – LMH



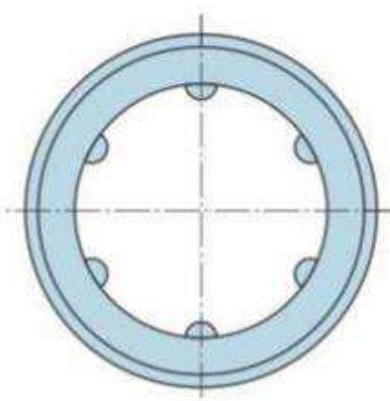
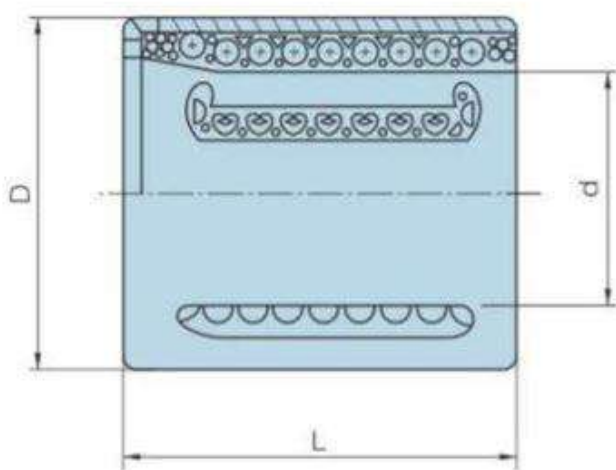
LMF	LMK	LMH	N	Ø Interno dr	Tolerância	Ø Externo D	Tolerância	L	D1	H	P.C.D	K	W	A	F	d1 x d2 x h	Excentricidade (max)	Kgf C	Kgf CO	Massa (g)
LMF6UU	LMK6UU	LMH6UU	4	6	0 - 0.010	12	0 - 0.013	19	28	5	20	22	18	20	-	3.4 x 6.5 x 3.3	0.012	20	27	26.5
LMF8UU	LMK8UU	LMH8UU	4	8	0 - 0.010	15	0 - 0.013	24	32	5	24	25	21	24	-	3.4 x 6.5 x 3.3	0.012	27	41	40
LMF10UU	LMK10UU	LMH10UU	4	10	0 - 0.010	19	0 - 0.016	29	40	6	29	30	25	29	-	4.5 x 8 x 4.4	0.012	38	55	78
LMF12UU	LMK12UU	LMH12UU	4	12	0 - 0.010	21	0 - 0.016	30	42	6	32	32	27	32	-	4.5 x 8 x 4.4	0.012	42	60	76
LMF13UU	LMK13UU	LMH13UU	4	13	0 - 0.010	23	0 - 0.016	32	43	6	33	34	29	33	-	4.5 x 8 x 4.4	0.012	51	79	94
LMF16UU	LMK16UU	LMH16UU	5	16	0 - 0.010	28	0 - 0.016	37	48	6	38	37	34	31	22	4.5 x 8 x 4.4	0.012	79	119	134
LMF20UU	LMK20UU	LMH20UU	5	20	0 - 0.012	32	0 - 0.019	42	54	8	43	42	38	36	24	5.5 x 9.5 x 5.4	0.015	88	140	180
LMF25UU	LMK25UU	LMH25UU	6	25	0 - 0.012	40	0 - 0.019	59	62	8	51	50	46	40	32	5.5 x 9.5 x 5.4	0.015	100	159	340
LMF30UU	LMK30UU	LMH30UU	6	30	0 - 0.012	45	0 - 0.019	64	74	10	60	58	51	49	35	6.6 x 11 x 6.5	0.015	159	279	460
LMF35UU	LMK35UU	-	6	35	0 - 0.015	52	0 - 0.022	70	82	10	67	64	-	-	-	6.6 x 11 x 6.5	0.020	169	319	795
LMF40UU	LMK40UU	-	6	40	0 - 0.015	60	0 - 0.022	80	96	13	78	75	-	-	-	9 x 14 x 8.6	0.020	219	409	1054
LMF50UU	LMK50UU	-	6	50	0 - 0.015	80	0 - 0.022	100	116	13	98	92	-	-	-	9 x 14 x 8.6	0.020	390	809	2200
LMF60UU	LMK60UU	-	6	60	0 - 0.020	90	0 - 0.025	110	134	18	112	106	-	-	-	11 x 17.5 x 10.8	0.025	479	1019	2960

N: Circuitos

Kgf C: Carga Dinâmica

Kgf CO: Carga Estática

Rolamentos KH..PP



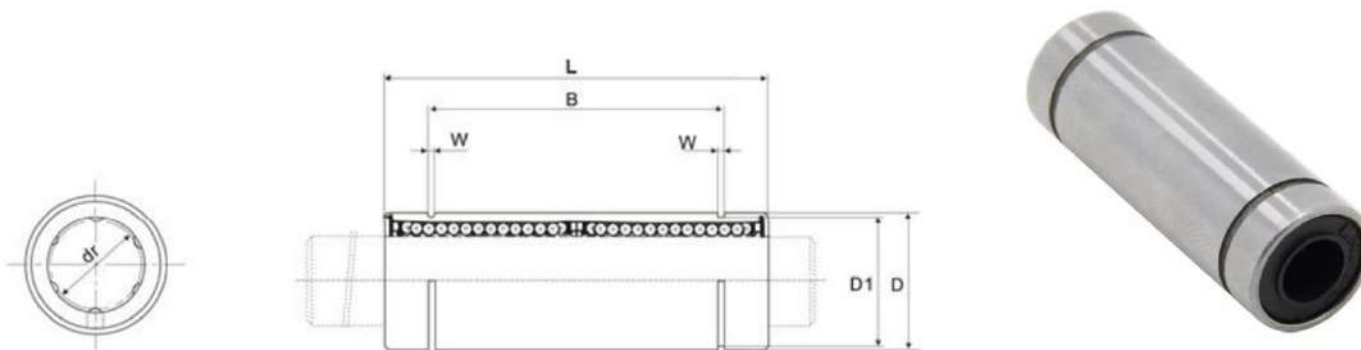
Modelo	N	d	D	L	Kgf C	Kgf CO	Massa (g)
KH0622PP	4	6	12	22	41	24	7
KH0824PP	4	8	15	24	44	29	11.3
KH1026PP	4	10	17	26	51	38	14.4
KH1228PP	5	12	19	28	63	52	18.1
KH1428PP	5	14	21	28	63	53	20.6
KH1630PP	5	16	24	30	82	63	27.2
KH2030PP	6	20	28	30	97	80	32.7
KH2540PP	6	25	35	40	203	170	66
KH3050PP	7	30	40	50	286	275	95
KH4060PP	8	40	52	60	449	454	182
KH5070PP	9	50	62	70	561	642	252

N: Carreiras de esferas

Kgf C: Carga Dinâmica

Kgf CO: Carga Estática

Rolamentos LM...LUU (Alongados)



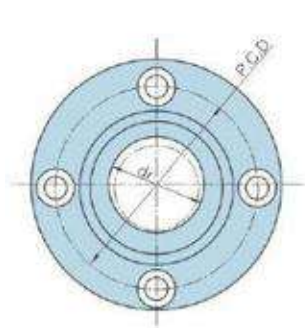
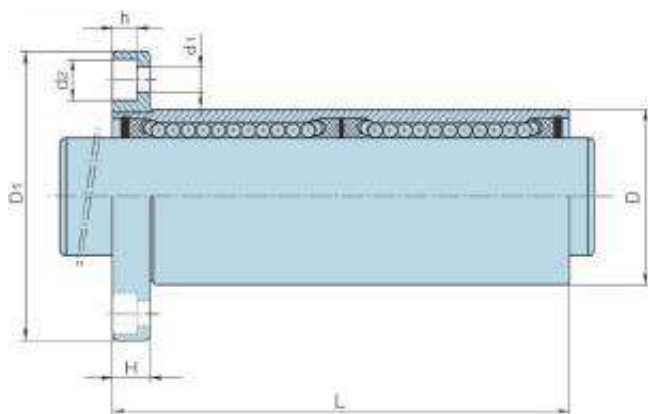
Modelo	N	Ø Interno dr	Tolerância	Ø Externo D	Tolerância	Comprimento L	Tolerância	B	W	D1	Excentricidade (máx.)	Kgf C	Kgf Co	Massa (g)
LM6LUU	4	6	0 - 0.010	12	0 - 0.013	35	0 - 0.3	27	1.1	11.5	0.015	33	54	16
LM8LUU	4	8	0 - 0.010	15	0 - 0.013	45	0 - 0.3	35	1.1	14.3	0.015	42	80	31
LM10LUU	4	10	0 - 0.010	19	0 - 0.016	55	0 - 0.3	44	1.3	18	0.015	60	112	62
LM12LUU	5	12	0 - 0.010	21	0 - 0.016	57	0 - 0.3	46	1.3	20	0.015	67	122	80
LM13LUU	5	13	0 - 0.010	23	0 - 0.016	61	0 - 0.3	46	1.3	22	0.015	83	160	90
LM16LUU	5	16	0 - 0.010	28	0 - 0.016	70	0 - 0.3	53	1.6	27	0.015	125	240	145
LM20LUU	6	20	0 - 0.012	32	0 - 0.019	80	0 - 0.3	61	1.6	30.5	0.020	143	280	180
LM25LUU	6	25	0 - 0.012	40	0 - 0.019	112	0 - 0.4	82	1.85	38	0.020	159	320	440
LM30LUU	6	30	0 - 0.012	45	0 - 0.019	123	0 - 0.4	89	1.85	43	0.020	254	560	580
LM35LUU	6	35	0 - 0.015	52	0 - 0.022	135	0 - 0.4	99	2.1	49	0.025	270	660	795
LM40LUU	6	40	0 - 0.015	60	0 - 0.022	154	0 - 0.4	121	2.1	57	0.025	350	820	1170
LM50LUU	6	50	0 - 0.015	80	0 - 0.022	192	0 - 0.4	148	2.6	76.5	0.025	620	1621	2100
LM60LUU	6	60	0 - 0.020	90	0 - 0.025	211	0 - 0.4	170	3.15	86.5	0.025	780	2039	3500

N: Carreiras de esferas

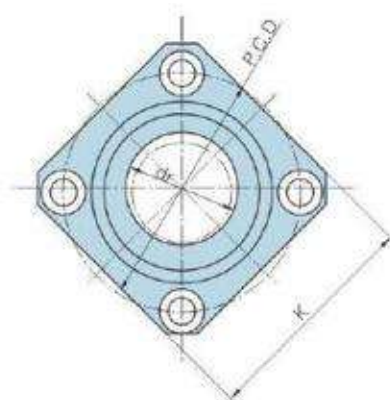
Kgf C: Carga Dinâmica

Kgf CO: Carga Estática

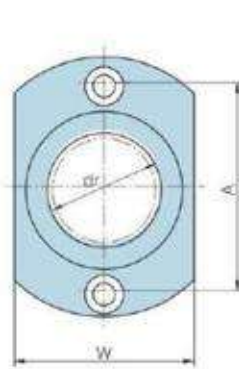
Rolamentos LMF..LUU – LMK..LUU – LMH..LUU (Alongados)



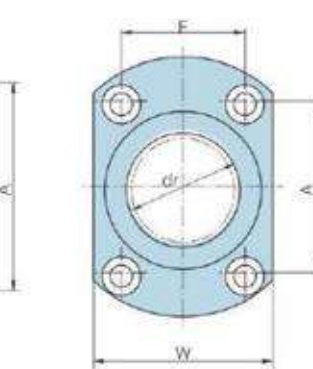
LMF



LMK



LMH13



LMH

LMH16

LMF LUU	LMK LUU	LMH LUU	N	Ø Interno dr	Tolerância	Ø Externo D	Tolerância	L	D1	H	P.C.D	K	W	A	F	d1 x d2 x h	Excentricidade (max)	Kgf C	Kgf Co	Massa (g)
LMF6 LUU	LMK6 LUU	LMH6 LUU	4	6	0 - 0.010	12	0 - 0.013	35	28	5	20	22	18	20	-	3.4 x 6.5 x 3.3	0.015	33	54	31
LMF8 LUU	LMK8 LUU	LMH8 LUU	4	8	0 - 0.010	15	0 - 0.013	45	32	5	24	25	21	24	-	3.4 x 6.5 x 3.3	0.015	42	80	53
LMF10 LUU	LMK10 LUU	LMH10 LUU	4	10	0 - 0.010	19	0 - 0.016	55	40	6	29	30	25	29	-	4.5 x 8 x 4.4	0.015	60	112	100
LMF12 LUU	LMK12 LUU	LMH12 LUU	4	12	0 - 0.010	21	0 - 0.016	57	42	6	32	32	27	32	-	4.5 x 8 x 4.4	0.015	67	122	105
LMF13 LUU	LMK13 LUU	LMH13 LUU	4	13	0 - 0.010	23	0 - 0.016	61	43	6	33	34	29	33	-	4.5 x 8 x 4.4	0.015	83	160	130
LMF16 LUU	LMK16 LUU	LMH16 LUU	5	16	0 - 0.010	28	0 - 0.016	70	48	6	38	37	34	31	22	4.5 x 8 x 4.4	0.015	125	240	187
LMF20 LUU	LMK20 LUU	LMH20 LUU	5	20	0 - 0.012	32	0 - 0.019	80	54	8	43	42	38	36	24	5.5 x 9.5 x 5.4	0.020	143	280	260
LMF25 LUU	LMK25 LUU	LMH25 LUU	6	25	0 - 0.012	40	0 - 0.019	112	62	8	51	50	46	40	32	5.5 x 9.5 x 5.4	0.020	159	320	515
LMF30 LUU	LMK30 LUU	LMH30 LUU	6	30	0 - 0.012	45	0 - 0.019	123	74	10	60	58	51	49	35	6.6 x 11 x 6.5	0.020	254	560	655
LMF35 LUU	LMK35 LUU	-	6	35	0 - 0.015	52	0 - 0.022	135	82	10	67	64	-	-	-	6.6 x 11 x 6.5	0.025	270	660	970
LMF40 LUU	LMK40 LUU	-	6	40	0 - 0.015	60	0 - 0.022	154	96	13	78	75	-	-	-	9 x 14 x 8.6	0.025	350	820	1560
LMF50 LUU	LMK50 LUU	-	6	50	0 - 0.015	80	0 - 0.022	192	116	13	98	92	-	-	-	9 x 14 x 8.6	0.025	620	1621	3500
LMF60 LUU	LMK60 LUU	-	6	60	0 - 0.020	90	0 - 0.025	211	134	18	112	106	-	-	-	1 x 17.5 x 10.1	0.025	780	2039	4500

N: Carreira de esferas

Kgf C: Carga Dinâmica

Kgf CO: Carga Estática