ISB®

INDUSTRIES

CATÁLOGO GENERAL RODAMIENTOS COMBINADOS Y PERFILES

RODAMIENTOS COMBINADOS

POLEAS

PLACAS DE SOPORTE

SOPORTES PARA PERFILES

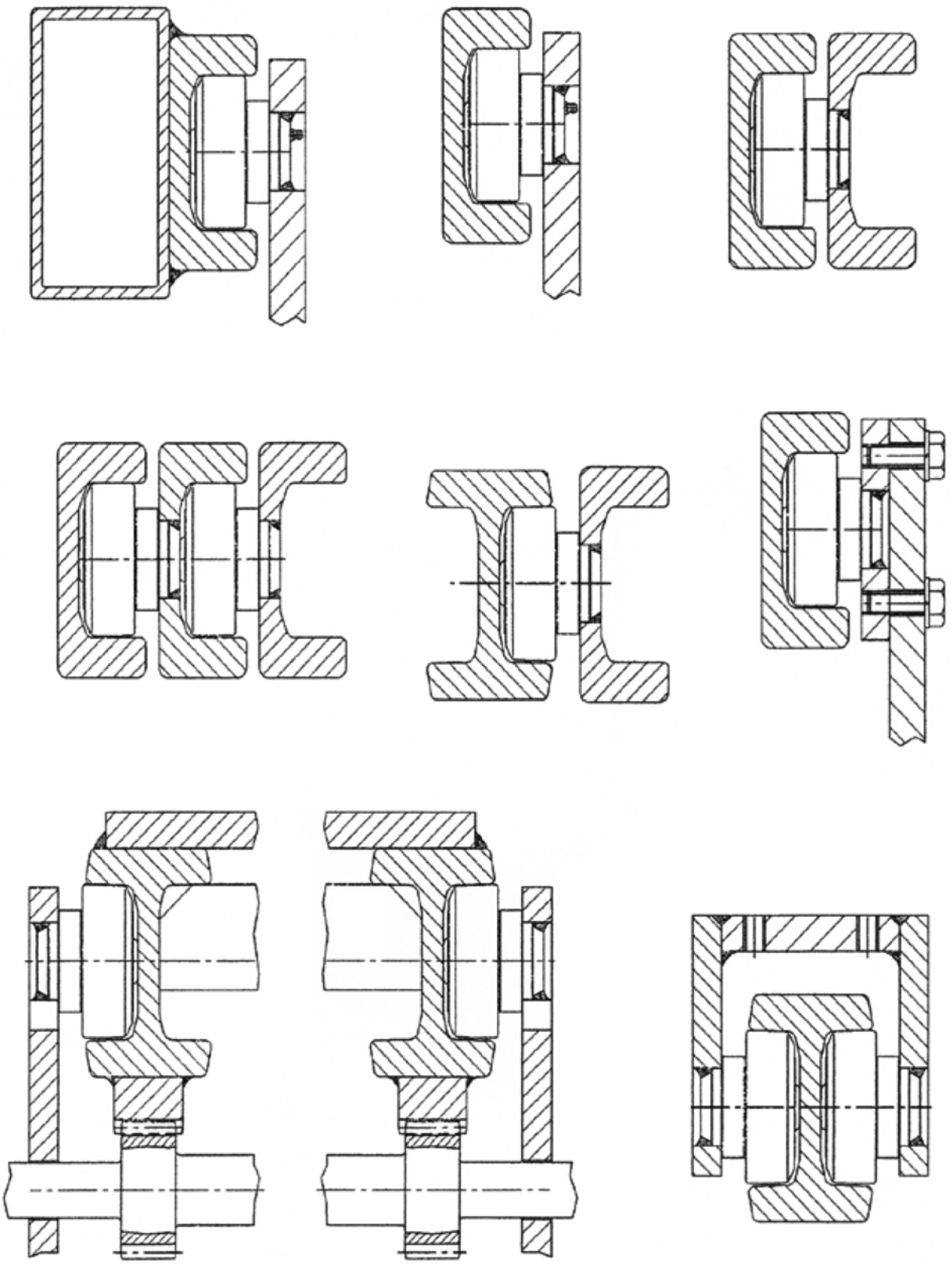
PERFILES

RODAMIENTOS DE APOYO

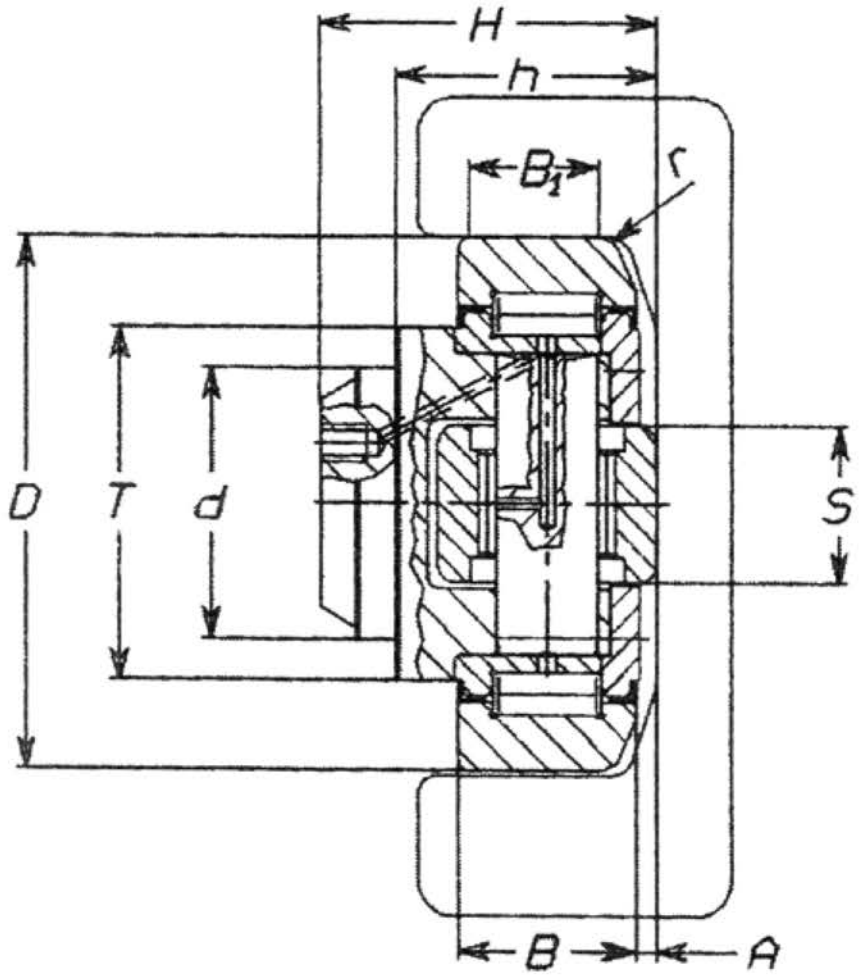
CONTRARRODILLOS


ISB®
INDUSTRIES
BEARINGS AND COMPONENTS

ÍNDICE



RODAMIENTO COMBINADO CON AXIAL FIJO



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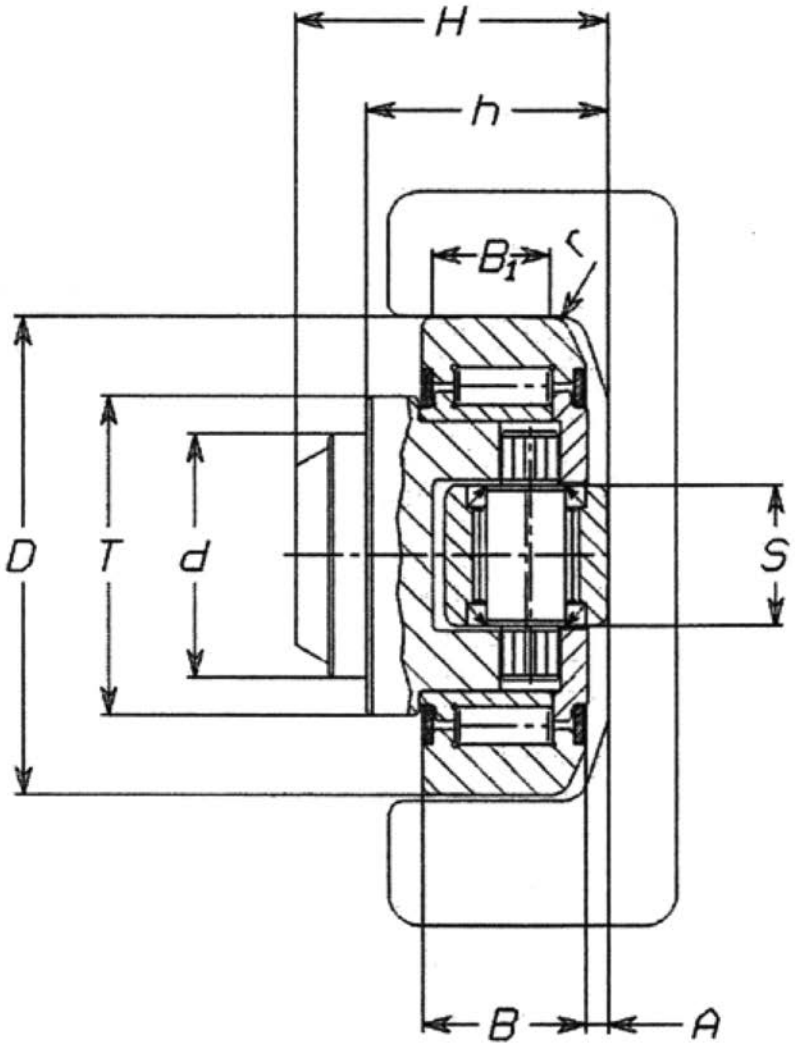
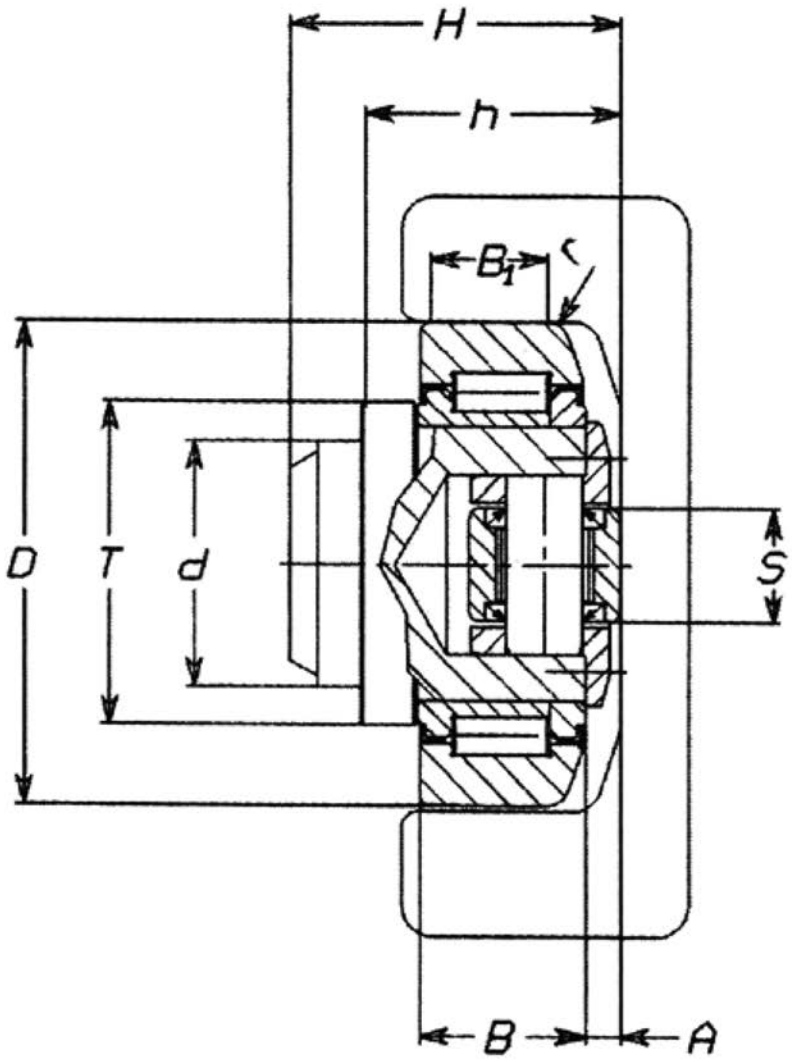
4054	62,5	42	30	37,5	30,5	20	2,5	20	3	39	65	15	22	0,53	2890
4055	70,1	48	35	44	36	23	2,5	22	4	57	96	18	26	0,8	2867
4055L	70,1	48	35	40,5	30,5	23	1,5	22	4	57	96	18	26	0,8	3018
4056	77,7	54	40	48	36,5	23	3	24	4	60	106	20	32	1	2810
4057	77,7	54	40	40,7	29	23	3	24	4	59	102	20	32	0,9	3019
4058	88,4	59	45	57	44	30	3,5	18	4	85	132	18	22	1,62	2811
4059	101,2	67	50	46	33	28	3	30	5	92	153	32	50	1,8	2912
4060	107,7	71	55	53	39	31	4	34	5	97	167	40	65	2,3	3100
4061	107,7	71	60	69	55	31	4	34	5	97	167	40	65	2,82	2862
4062	123	80	60	72,3	56	37	5	40	5	135	242	47	90	4,5	2891
4063	149	103	60	78,5	58,5	45	5,5	50	3	188	370	85	120	6,52	2757
4011	149	103	60	86	67	45	5,5	50	3	188	370	85	120	7	2757
4037	174	120	80	95	71	55	7	62	7,5	284	534	185	321	10,5	
4039	185	120	80	95	71	55	7	62	7,5	284	534	200	355	12,3	

RODAMIENTO COMBINADO CON AXIAL AJUSTABLE POR EXCÉNTRICA



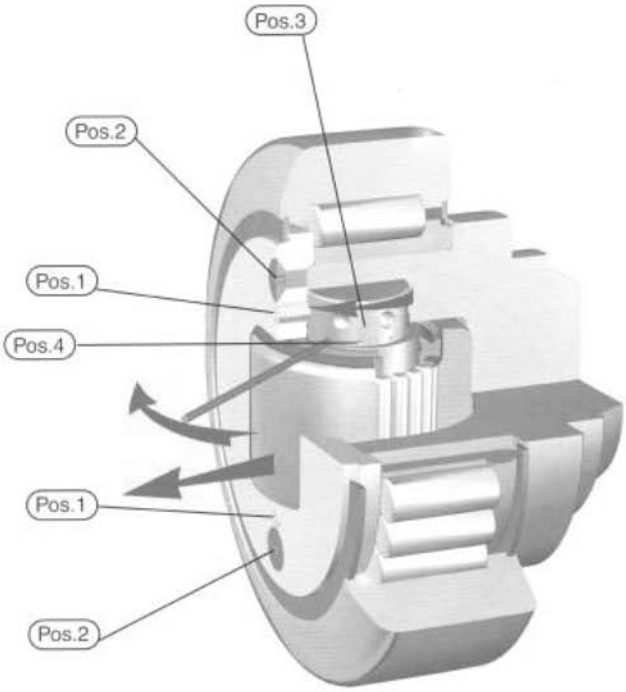
Ref.	D	T	d	H	h min-max	B	A	S	r	RADIAL		AXIAL		Peso	Tipo de perfil
										C	Co	C	Co		
4454	62	42	30	37,5	30.5-32	20	4	20	3	39	65	16	25	0,53	EC065L
4455	70,1	48	35	44	36-37.5	23	4	20	4	57	96	16	25	0,8	2867
4456	77,7	54	40	48	37-38.5	23	3,5	26	4	59	102	23	36	1	2810
4457	77,7	54	40	40	29-30.5	23	3,5	26	4	59	102	23	36	0,87	3019
4458	88,4	59	45	57	44-45.5	30	4	26	4	85	134	23	36	1,62	2811
4459	101,2	69	50	46	33-35	26	4,5	30	3	91	140	32	50	1,74	2912
4460	107,7	69	55	54	40-42	31	4	30	5	100	174	32	50	2,27	3100
4461	107,7	69	60	69	55-57	31	4	30	5	100	174	32	50	2,82	2862
4462	123	80	60	72,3	56-60	37	4,5	34	5	135	242	41	72	3,9	2891
4463	149	103	60	78,5	58.5-62.5	45	6	34	5	183	353	41	72	6,5	2757

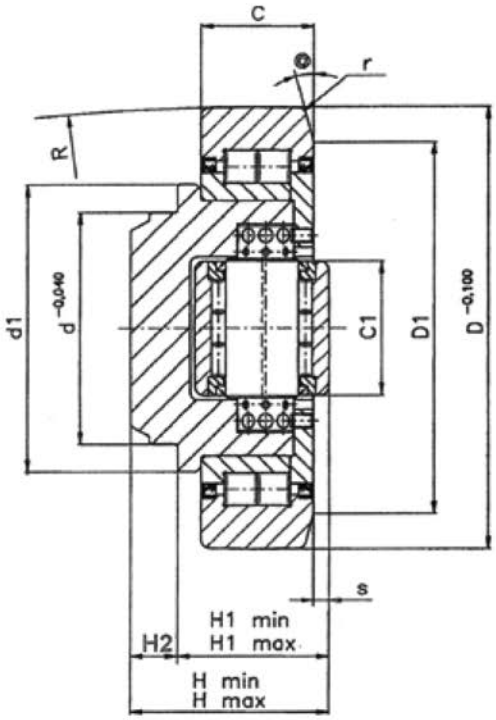
RODAMIENTO COMBINADO AJUSTABLE POR ARANDELAS



Ref.	D	T	d	H	h	B	A	S	r	RADIAL		AXIAL		Peso	Tipo de perfil
										C	Co	C	Co		
4072	62	42	30	43	33	20	5,5	16	3	39	65	11	15	0,56	2890
4073	70,1	48	35	48	40	23	6,5	16	4	57	96	11	15	0,95	2867
4074	77,7	54	40	51	39,5	23	7	21	4	60	106	17	26	1,02	2810
4075	77,7	54	40	45	34	23	7	21	4	60	106	17	26	1,1	3019
4076	88,4	59	45	61	48	30	7	21	4	85	134	17	26	1,4	2811
4077	101,2	67	50	50,5	37,5	28	7	21	5	88	152	17	26	2	2912
4078	107,7	71	55	58,5	44,5	31	8	33	5	97	167	36	47	3	3100
40784	107,7	71	60	69	55	31	8	33	5	97	167	36	47	2,8	2862
4079	123	79	60	75,8	59,5	37	8	33	5	135	242	36	47	4,2	2891
4080	149	103	60	89	69	45	15	50	3	188	370	85	120	7	2757

RODAMIENTO COMBINADO AJUSTABLE POR EXCÉNTRICA POR LA TAPA





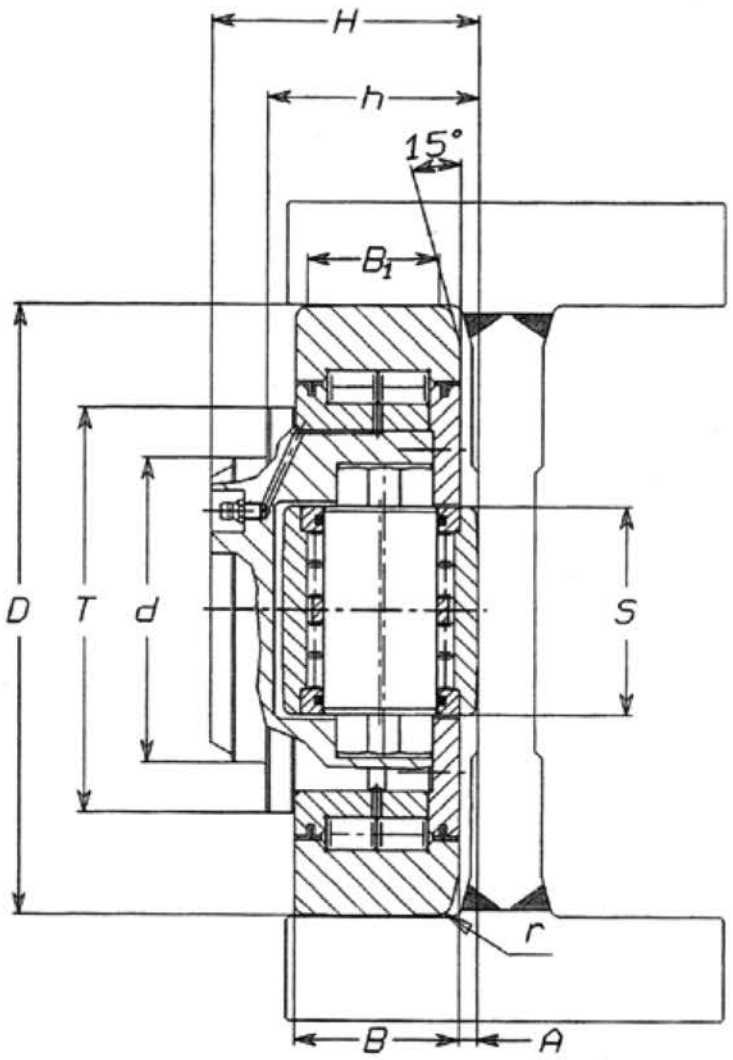
INDUSTRIA LIGERA

Ref.	d	D	C	H min	H max	H1 min	H1 max	H2	D1	C1	d1	s	@	R-R1	C	Co	Ca	Coa	Perfil
KRES 062	30	62	20	37,5	39	30,5	32	7	50	20	42	2	20	500-500	31	35,5	11	11,5	2890
KRES 070	35	70,1	23	44	45,5	36	37,5	8	57	22	48	2	20	500-500	45,5	51	14	13	2867
KRES 078	40	77,7	23	48	50	36,5	38,5	11,5	61	24	54	2,5	20	700-700	48	56,8	18	18	2810
KRES 089	45	88,9	30	57	59	44	46	13	68	26	59	3	20	700-700	68	72	23	23	2811
KRES 108	60	107,7	31	69	71,5	55	57,7	14	82	34	71	3,5	20	1000-700	81	95	31	36	2862
KRES 123	60	123	37	72,3	75,3	56	59	16,3	92	40	80	4,5	20	1000-700	110	132	43	50	2891
KRES 149	55	149	43	78,5	81,5	58,5	61,5	20	116	50	103	4,5	15	1000-700	151	192	68	71	2757

INDUSTRIA PESADA

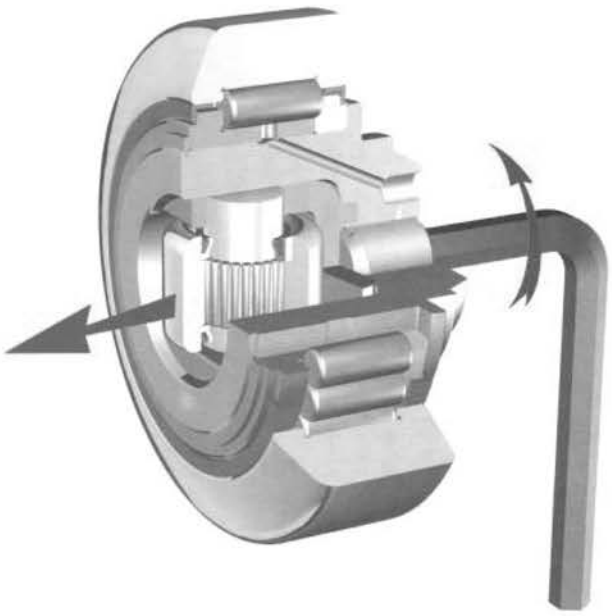
Ref.	d	D	C	H min	H max	H1 min	H1 max	H2	D1	C1	d1	s	@	R-R1	C	Co	Ca	Coa	Perfil
TR.038/A	80	165	40	69	72	53	56	16	130	50	113	8	15	1000-1000	190	230	68	71	FC165
TR.012/A	100	190	48	84,5	87,5	64,5	67,5	20	160	60	124	6,5	15	1000-1500	207	243	73	83	FC190
TR.013/A	110	220	58	94,5	97,5	74,5	77,5	20	190	75	145	6,5	15	1500-2000	313	387	195	136	FC220
TR.014/A	120	250	60	102	105	77	80	25	220	75	168	7	15	1500-2000	327	434	105	136	FC250
TR.015/A	150	280	72	119,5	123,5	89,5	93,6	30	250	90	188	7,5	15	2000-3000	421	625	144	210	FM280

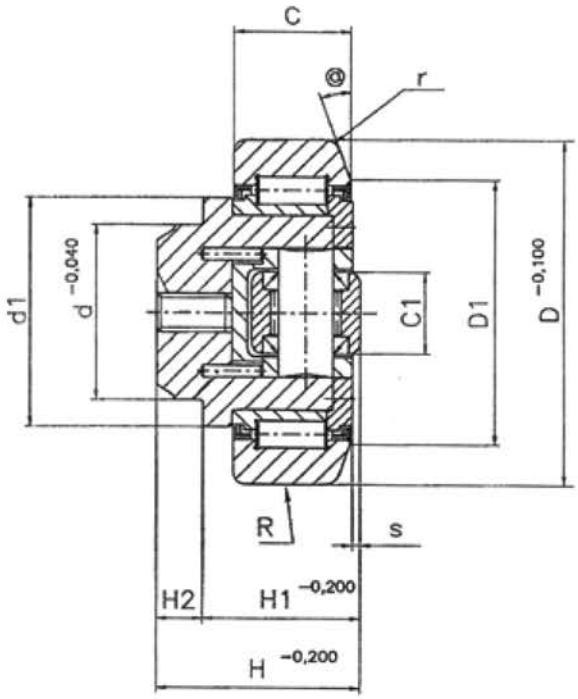
RODAMIENTO COMBINADO AJUSTABLE POR EXCÉNTRICA “JUMBO”



Ref.	D	T	d	H	h	B	A	S	r	RADIAL		AXIAL		Peso	Tipo de perfil
										C	Co	C	Co		
4462	123	80	60	72,3	56-60	37	4,5	34	5	135	242	41	72	3,9	2891-70974
4463	149	103	60	78,5	58,5-62,5	45	6	34	3	188	370	41	71	6,5	2757-70975
4089	165	95	80	69	53-57	40	5	40	3	192	325	46	79	6,7	FM165 - FC165
4090	190	110	100	84,5	64,5-68,5	48	6,5	40	4	283	426	46	79	11,6	FM190 - FC160
4091	220	136	110	94,5	74,5-78,5	58	6,5	60	5	351	700	101	173	18	FM220 - FC220
4092	250	158	120	102	77-81	60	7	60	5	392	801	101	173	23,9	FM250 - FC250
4093	280	168	150	119,5	89,5-93,5	72	7,5	60	5	508	1041	101	173	37,5	FM280 - FM280R
4094	320	218	140	135	110-114	85	10	90	8	642	1370	210	422	56	
4095	340	240	140	150	120-124	89	10	100	7	752	1700	232	463	75	
4096	390	242	170	200	150-154	118	10	100	8	1050	2243	232	463	118	

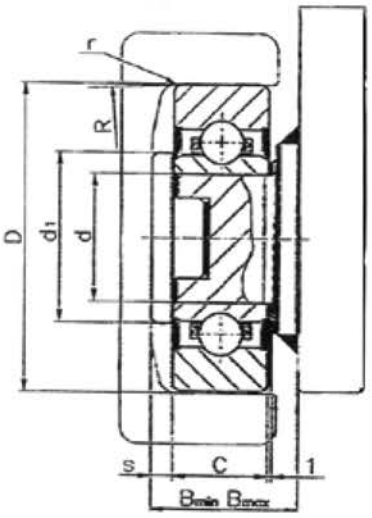
RODAMIENTO COMBINADO AJUSTABLE POR EL EJE

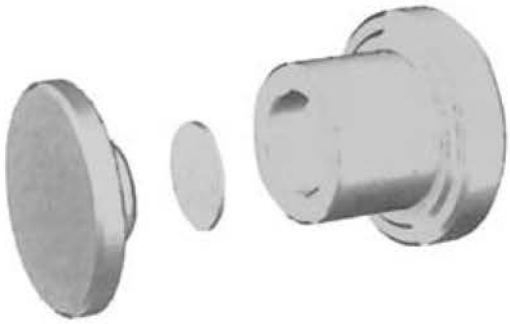




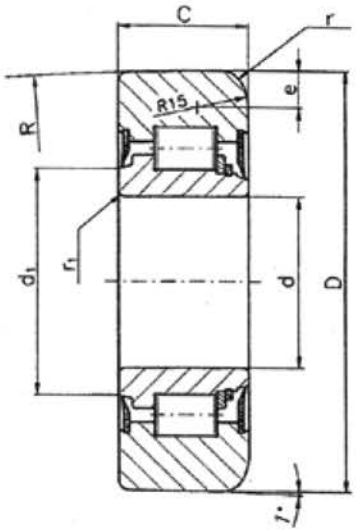
Ref.	d	D	C	H	H1	H2	D1	C1	d1	s	@	r	R	C	Co	Ca	Coa	Perfil
TR 961	30	62	20	38	31	7	50		42	2	20	3	500	31	35,5			2890
TR 962	35	70,1	23	38,5	31,5	7	57		48	2	20	3	500	45,5	51			2867
TR 963	40	77,7	23	40,7	31,7	9	61		54	2,5	20	3	700	48	56,8			2810
TR 964	45	88,9	30	48,5	36,5	12	68	21	59	3	20	4	700	68	72	15	15	2811
TR 966	55	107,7	31	53,5	41,5	12	82	30	71	3,5	20	4	1000	81	95	31	36	2862
TR 967	60	123	37	61,5	49,5	12	92	30	80	4,5	20	4	1000	110	132	31	36	2891
TR 968	60	149	43	75,5	58,5	17	116	45	103	4,5	15	4	1000	151	192	68	71	2757

RODAMIENTO COMBINADO AJUSTABLE CON ERLATON

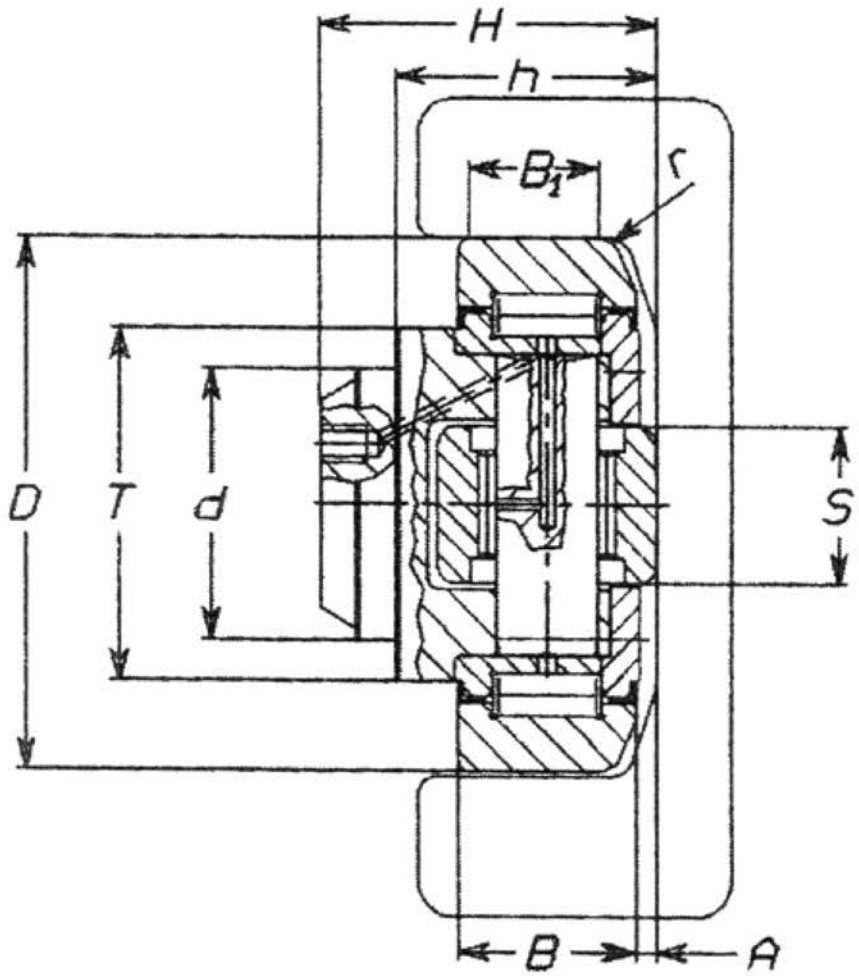




Ref.	d	D	C	D1	Bmin	Bmax	r	S	R	C	Co	Perfil
TRSG 900	25	62	20	32	31	33	2	5	300	14,3	8	2890
TRSG 948	25	62,4	20	32	31	33	2	5	300	14,3	8	2890
TRSG 901	30	70	22	40	36	38	5	5	500	19,6	13,7	2867
TRSG 902	30	70,8	22	40	36	38	5	5	500	19,6	13,7	2867
TRSG 907	30	78	22	40	36	38	5	5	500	19,6	13,7	2810

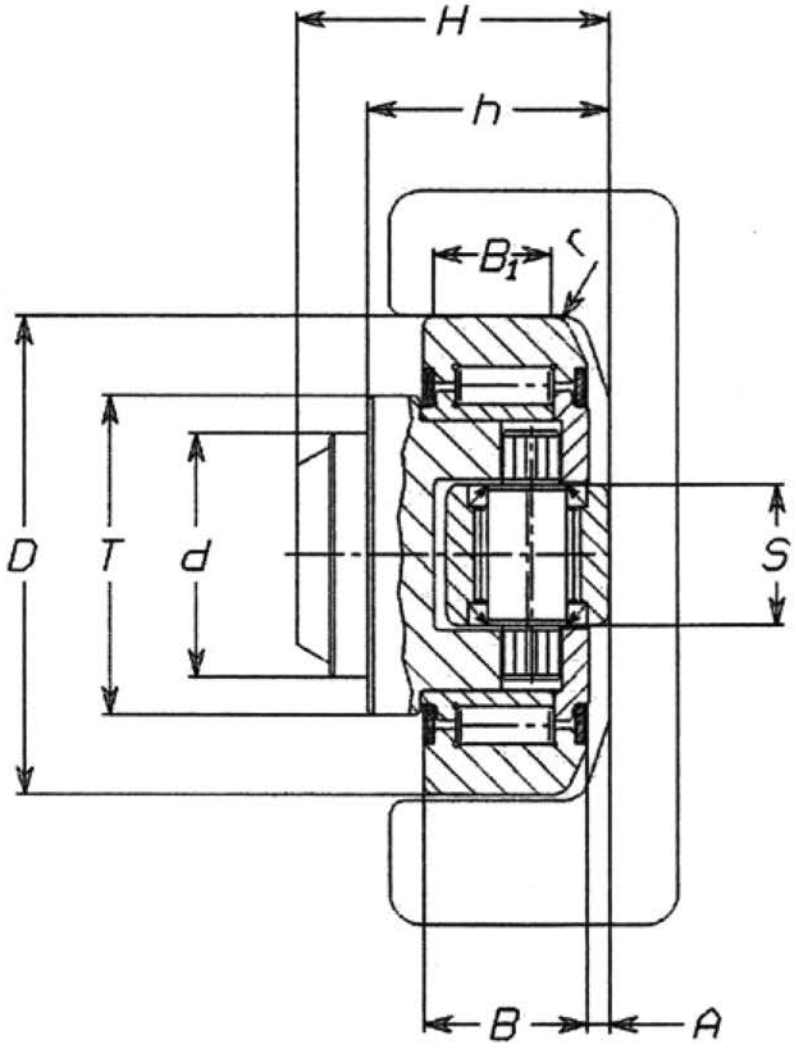


Ref.	d	D	C	e	d1	r	r1	R	C	Co	Giros/min
MR. 1624	30	70	22	8,5	41	6	1	250	39	58	900
MR. 1625	35	78	22	8,5	47	6	1	250	44	60	800
MR. 1626	40	88,5	28	11	51	7	2	500	59	90	700
MR. 1627	50	101,8	24	11	66	7	2	500	55	81	700
MR. 1628	50	107,8	28	11	66	7	2	1000	77	117	650
MR. 1629	50	123	38	11	66	7	2	1000	145	205	600

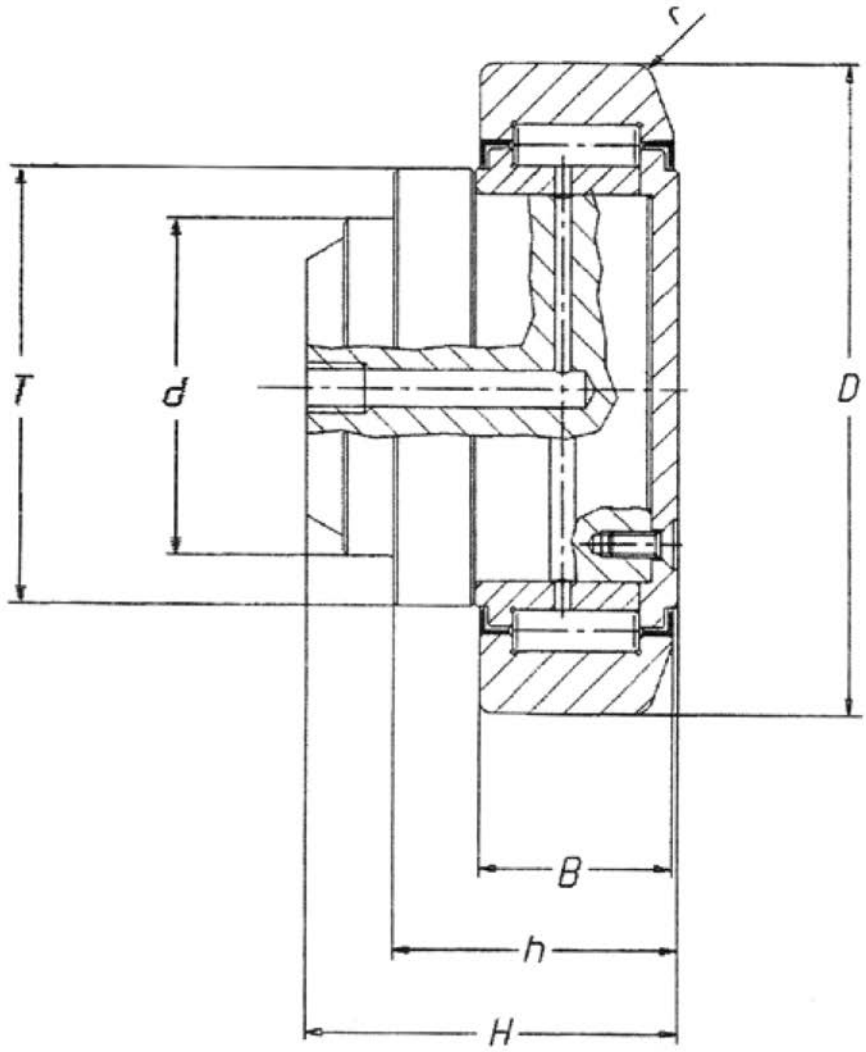


Ref.	D	T	d (-0.05)	H	h	B	A	S	r	C	Co	Ca	Coa	U/ MIN	Perfil		
PR 4054	64,8	42	30	37,5	30,5	20	2,5	20	3	31	35,5	11	11	900	0 Nb	86,5x35	EC065L
PR 4055	73,8	48	35	44	36	23	2,5	22	4	45,5	51	13	14	900	1 Nb	103,2x39	EC074L
PR 4056	81,8	54	40	48	36,5	23	3	26	4	48	56,8	18	18	800	2 Nb	121,3x39	EC082L
PR 4058	92,8	59	45	57	44	30	3,5	26	3	68	72	23	23	750	3 Nb	135,4x51	EC093L
PR 4061	111,8	71	60	69	55	31	4	34	5	81	95	36	36	650	4 Nb	157,2x59	EC112L
PR 4062	127,8	80	60	72,3	56	37	5	40	5	110	132	50	50	550	5 Nb	175x64	EC128L
PR 4063	153,8	103	60	78,5	58,5	43	5,5	50	3	151	192	71	71	450	6 Nb	201,5x69	EC154L

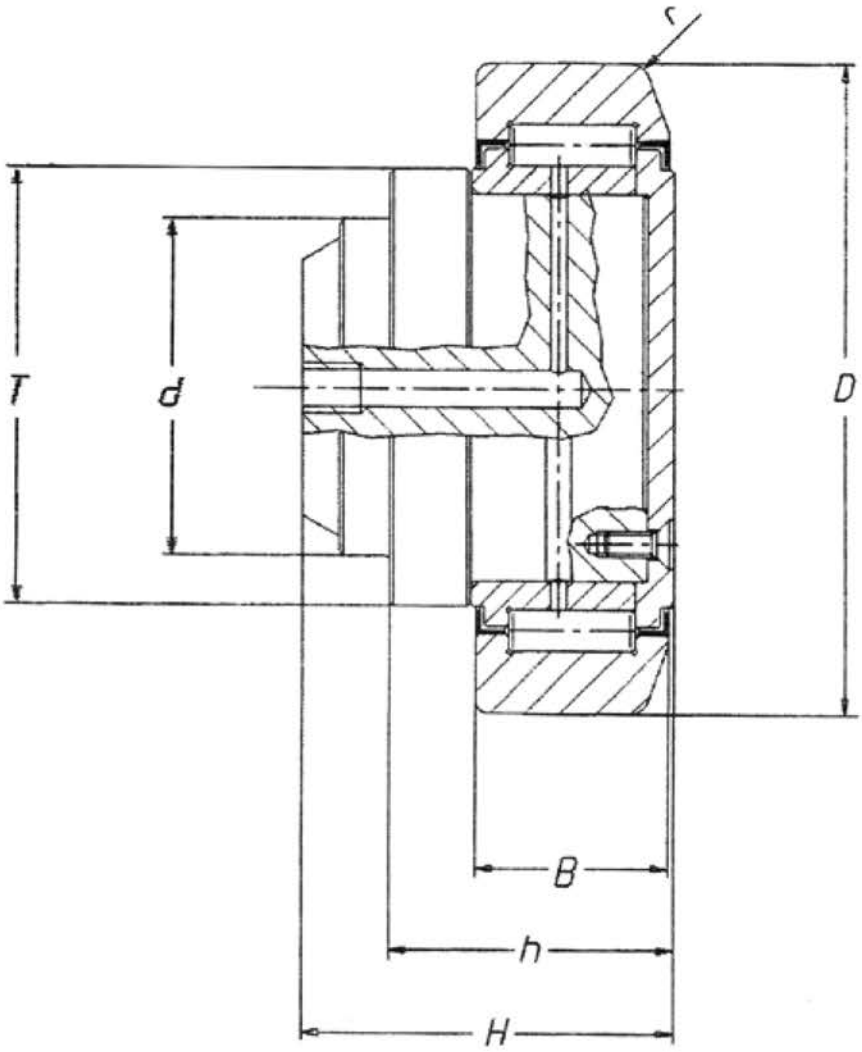
RODAMIENTO COMBINADO AJUSTABLE POR EXCÉNTRICA DE PRECISIÓN



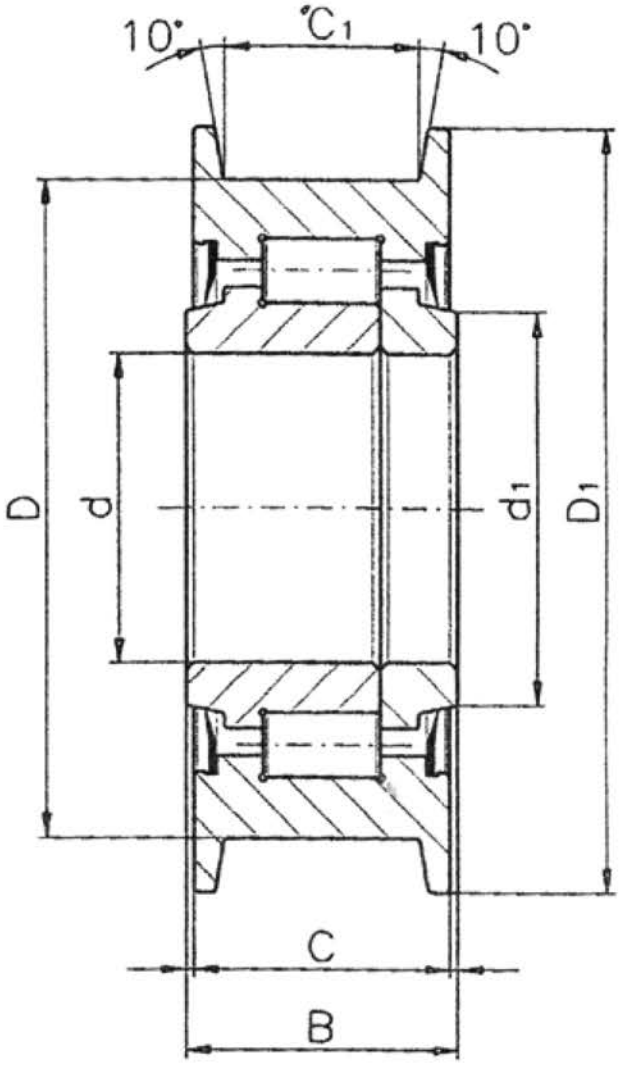
Ref.	D	T	d (-0.05)	H	h	B	A	S	r	C	Co	Ca	Coa	U/ MIN	Perfil		
PR 4454	64,8	42	30	37,5 39	30,5 32	20	4 5,5	20	3	31	35,5	11	11	900	0 Nb	86,5x35	EC065L
PR 4455	73,8	48	35	44 45,5	36 37,5	23	4 5,5	20	4	45,5	51	11	11	800	1 Nb	103,2x39	EC074L
PR 4456	81,8	54	40	48 49,5	37 38,5	23	3,5 5	26	4	48	56,8	18	18	700	2 Nb	121,3x39	EC082L
PR 4458	92,8	59	45	57 58,5	44 45,5	30	4 5,5	26	4	68	72	23	23	600	3 Nb	135,4x51	EC093L
PR 4461	111,8	69	60	69 71	55 57	31	55 57	30	5	81	95	25	27	500	4 Nb	157,2x59	EC112L
PR 4462	127,8	80	60	72,3 76,3	56 60	37	56 60	34	5	110	132	31	36	500	5 Nb	175x64	EC128L
PR 4463	153,8	108	60	78,5 82,5	58,5 62,5	43	58,5 62,5	34	3	151	192	31	36	400	6 Nb	201,5x69	EC154L



Ref.	D	T	d	H	h	B	r	Peso	Radial	
									C	Co
22052	52,5	40	30	31	25	17	2	0,35	24	33
22062	662	42	30	36,5	29,5	20	3	0,6	39	65
22070	70,1	48	35	42	34	23	4	0,84	56	93
22077	77,7	53	40	45,5	34	23	4	1,06	57	101
22088	88,4	59	45	54	41	30	4	1,8	82	134
22107	107,7	71	60	65,5	51,5	31	5	3	96	174
22123	123	80	60	67,8	51,5	37	5	4	131	243
22149	149	103	60	74	54	45	3	7	183	353



Ref.	D	T	d (-0.05)	H	h	B	A	a	C	Co	U/ MIN	Perfil		
2.2062PR	64,8	42	30	36,5	29,5	20	50	20º	31	35,5	900	0 Nb	86,5x35	EC065L
2.2070PR	73,8	48	35	42	34	23	57	20º	45,5	51	900	1 Nb	103,2x39	EC074L
2.2077PR	81,8	53	40	45,5	34	23	61	20º	48	56,8	800	2 Nb	121,3x39	EC082L
2.2088PR	92,8	59	45	54	41	30	68	20º	68	72	750	3 Nb	135,4x51	EC093L
2.2107PR	111,8	71	60	65,5	51,5	31	82	20º	81	95	650	4 Nb	157,2x59	EC112L
2.2123PR	127,8	80	60	67,8	51,5	37	92	20º	110	132	550	5 Nb	175x64	EC128L
2.2149PR	153,8	103	60	74	54	45	116	15º	151	192	450	6 Nb	201,5x69	EC154L

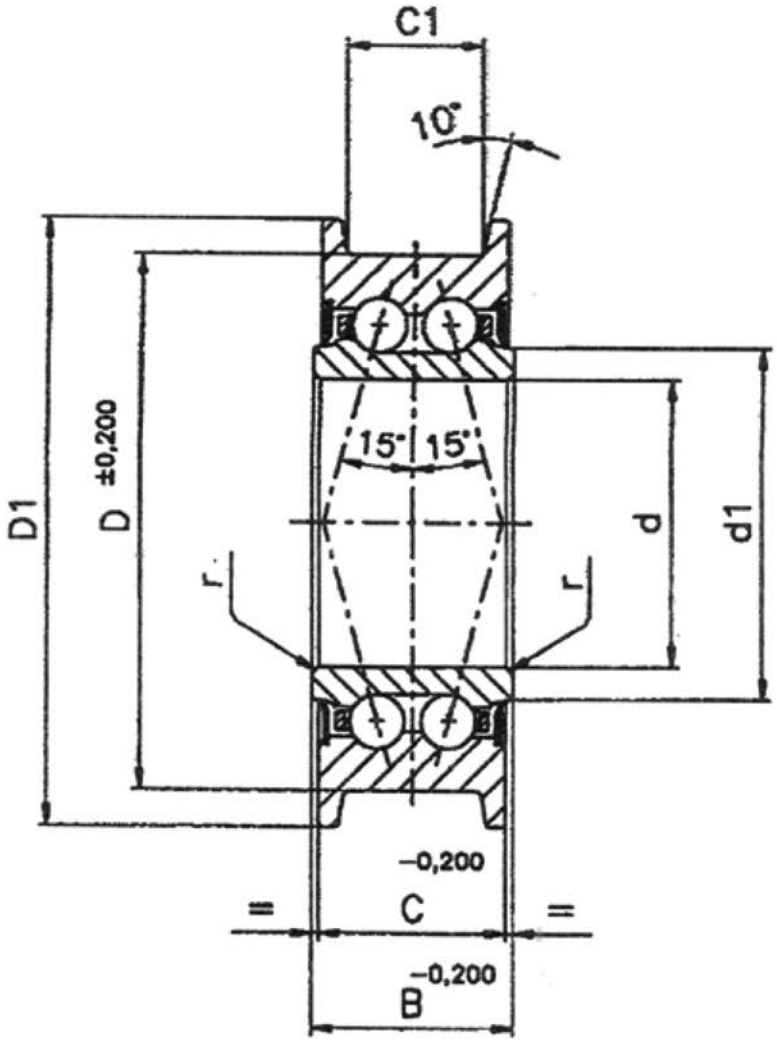


SERIE LIGERA

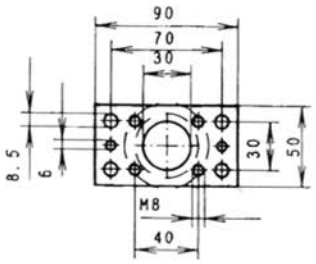
Ref.	d		d1	D	D1	B	C	C1	r	C
TR.051.2RS	40	+0,011	50	70	78	26,5	25	19	1	44
TR.052.2RS	40	+0,011	50	80	90	28	26	19	1	50
TR.053.2RS	40	+0,011	50	85	98	38	36	28	1	64
TR.054.2RS	40	+0,011	50	80	98	43	41	33	1	81
TR.055.2RS	50	+0,013	60	100	115	42	40	33	1	89
TR.056.2RS	55	+0,013	65	110	135	58	56	45	1,5	135
TR.057.2RS	55	+0,013	65	130	158	67	65	55	2	200

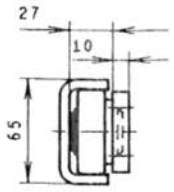
SERIE PESADA

Ref.	d	D	B	C	C1	D1	d1	C	Co
TR.060	80	157	68	88	72	187	100	235	276
TR.061	100	184	85	106	88	218	130	318	396
TR.062	110	212	95	120	98	256	150	440	600
TR.063	110	212	125	150	128	256	150	618	900

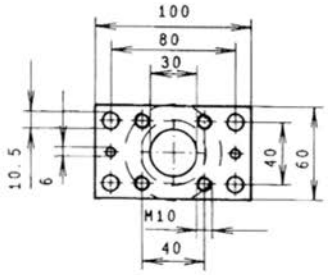


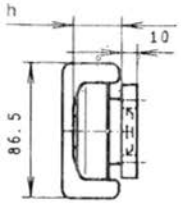
Ref.	d		d1	D	D1	B	C	C1	r	C	Co	Kg
TRS.1256.2RS	30	+0,010	47,5	82	97	33,5	32	22	2	35,1	28,5	0,8
TRS.1257.2RS	35	+0,012	58	105	120	41	40	31	2	55,9	45	1,1
TRS.1240.2RS	40	+0,011	50	75	85	28	26	19	1	25	32	0,5
TRS.1239.2RS	40	+0,011	50	80	90	28	26	19	1	25	32	0,7
TRS.1238.2RS	40	+0,011	52	85	99	38	36	28	1	37	45	1,1
TRS.1237.2RS	40	+0,011	52	80	98	43	41	33	1	37	45	1,1
TRS.1236.2RS	50	+0,013	62	100	115	42	40	33	1	58,5	58,5	1,5
TRS.1235.2RS	55	+0,013	70	110	135	58	56	45	1,5	67	67	1,5



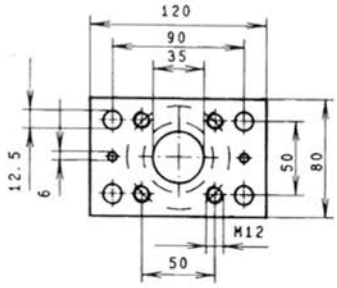


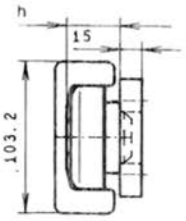
Ref.	Combinado	Radial
PS53	4.053	



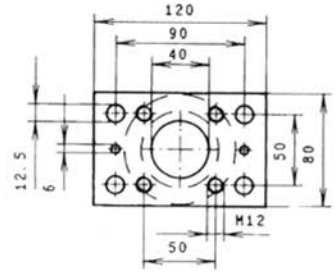


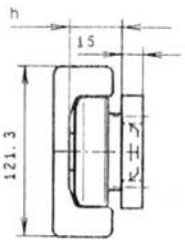
Ref.	Combinado	Radial
PS54	4.054 4.454 4.072(P) PR 4.054 PR 4.454	2.2062 PR 2.2062



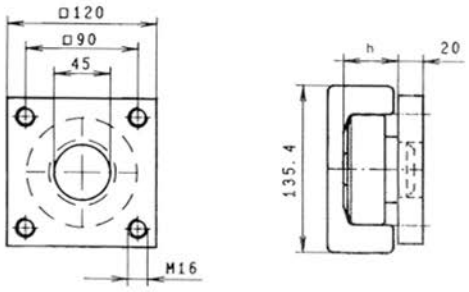


Ref.	Combinado	Radial
PS55	4.055 4.455 4.073(P) PR4.055 PR4.455	2.2070 PR 2.2070

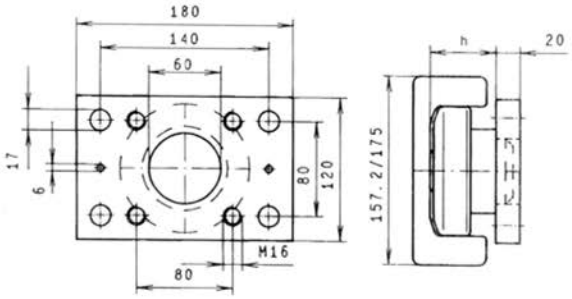




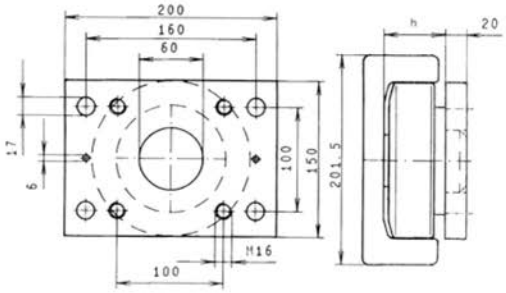
Ref.	Combinado	Radial
PS56	4.056 4.456 4.074(P) PR4.056 PR4.456	2.2077 PR 2.2077



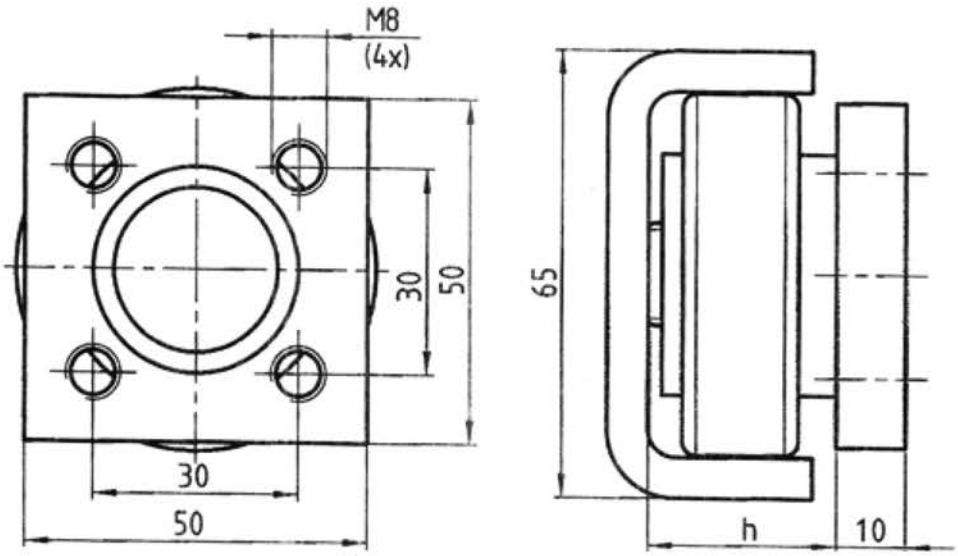
Ref.	Combinado	Radial
PS58	4.058 4.458 4.076(P) PR 4.058 PR 4.458	2.2088 PR2.2088



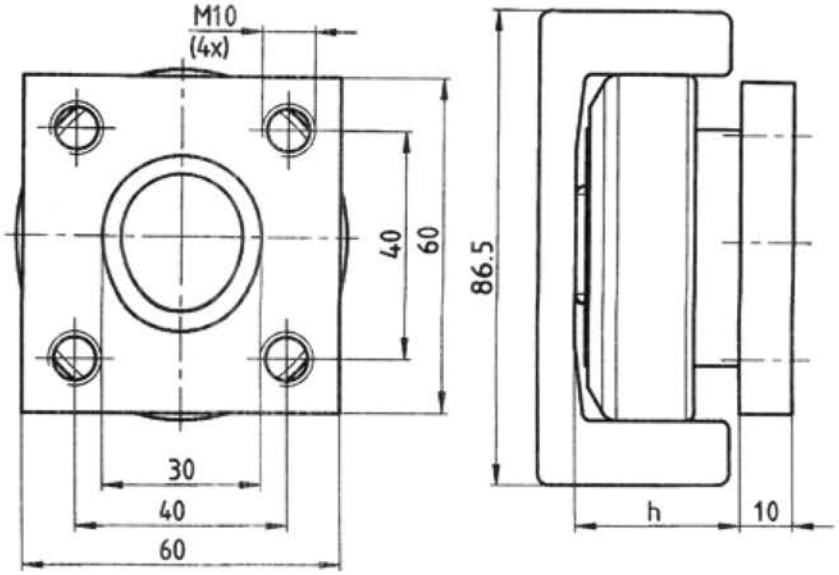
Ref.	Combinado	Radial
PS60	4.061 4.461 4.0784(P) PR4.061 PR4.461 4.062 4.462 4.079 PR4.062 PR4.462	2.2107 PR2.2107 PR2.2123 2.2123



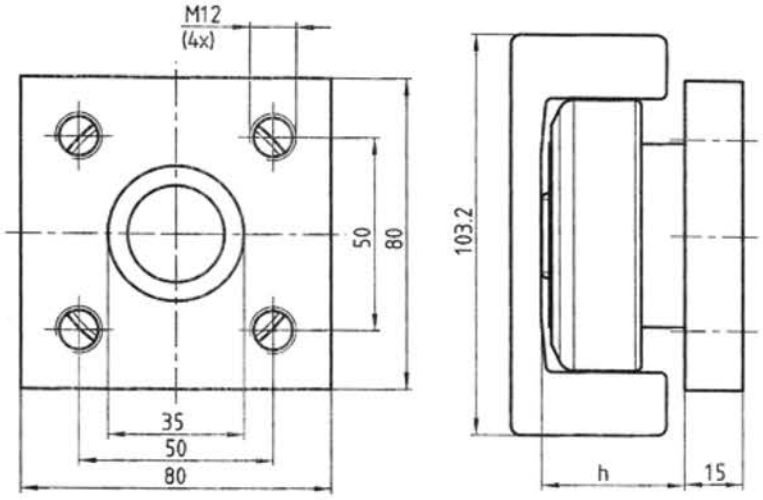
Ref.	Combinado	Radial
PS63	4.063 4.463 4.080 PR4.063 PR4.463	2.2149 PR2.2149



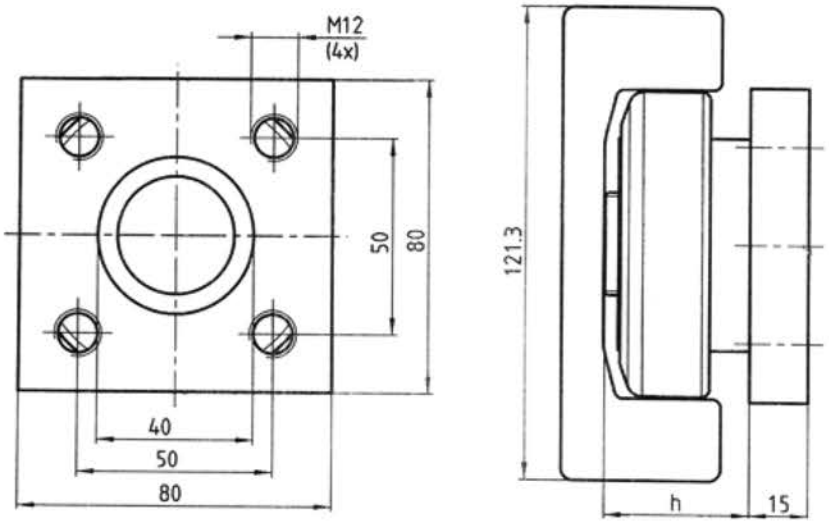
Ref.	Rodamiento	Perfil	h	Peso
AP S-Q	4,053	2700	27	0,2kg



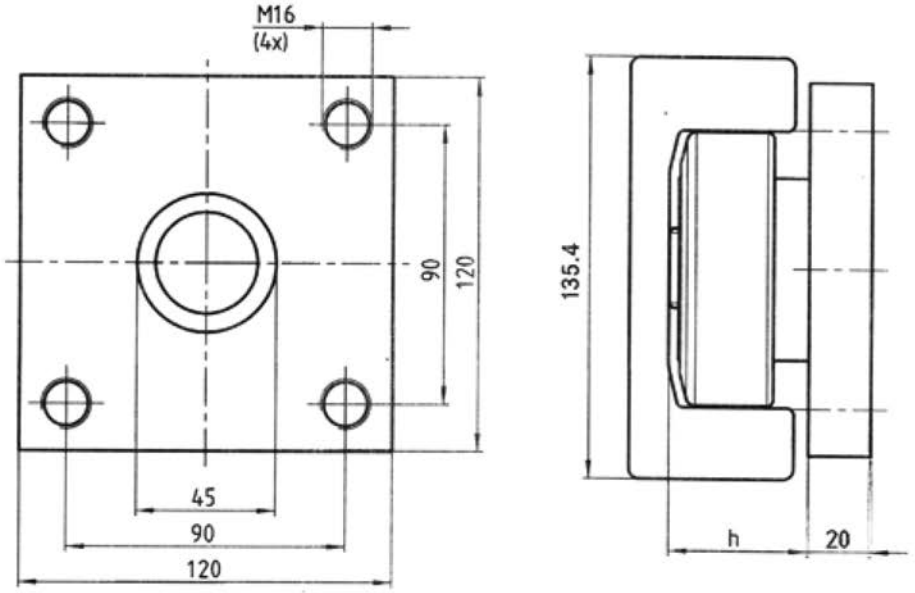
Ref.	Rodamiento	Perfil	h	Peso
AP O-Q	2.2062	Standard 2.890	30,5	0,28kg
	4.054	Standard 2.890	30,5	
	4.454	Standard 2.890	30,5-32,0	
	4.072(P)	Standard 2.890	33	
	2.2062PR	EC065L	30,5	
	PR4.054	EC065L	30,5	
	PR4.454	EC065L	30,5-32	



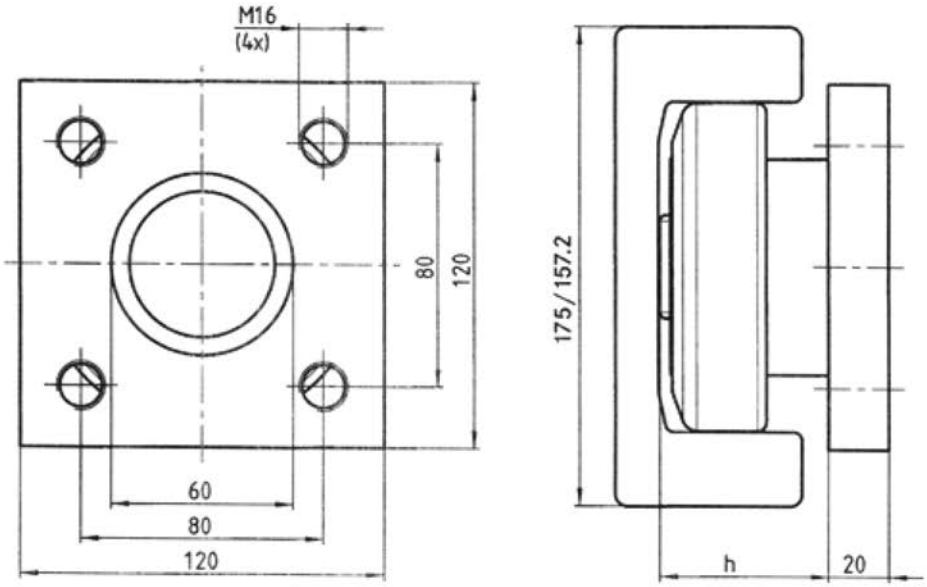
Ref.	Rodamiento	Perfil	h	Peso
AP 1-Q	2.2070	Standard 2.867	36	0,75kg
	4.055	Standard 2.867	36	
	4.455	Standard 2.867	36-37,5	
	4.073(P)	Standard 2.867	40	
	PR 2.2070	EC074L	36	
	PR 4.055	EC074L	36	
	PR 4.455	EC074L	36-37,5	



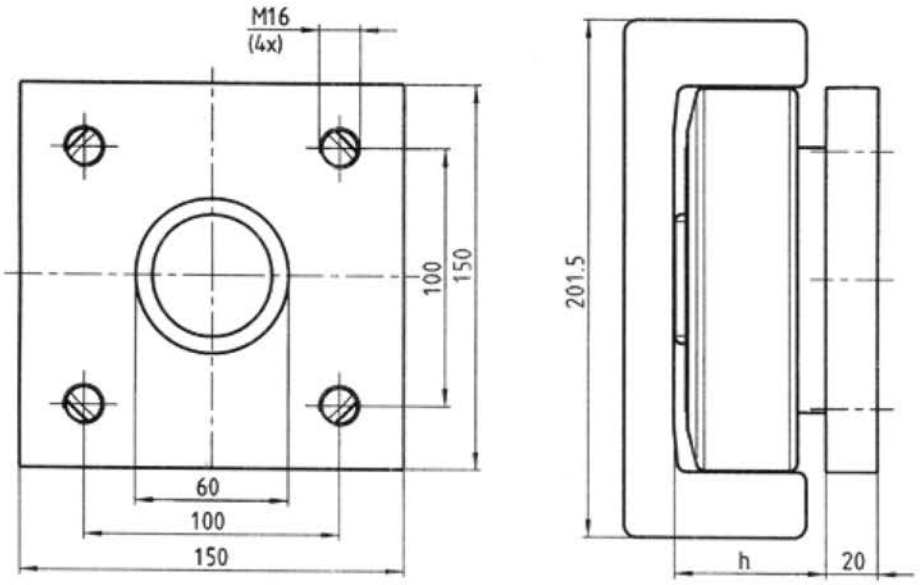
Ref.	Rodamiento	Perfil	h	Peso
AP 2-Q	2.2077	Standard 2.810	36,5	0,75kg
	4.056	Standard 2.810	36,5	
	4.456	Standard 2.810	37-38,5	
	4.074	Standard 2.810	39,5	
	PR 2.2077	EC085L	36,5	
	PR 4.056	EC085L	36,5	
	PR 4.456	EC085L	37-38,5	



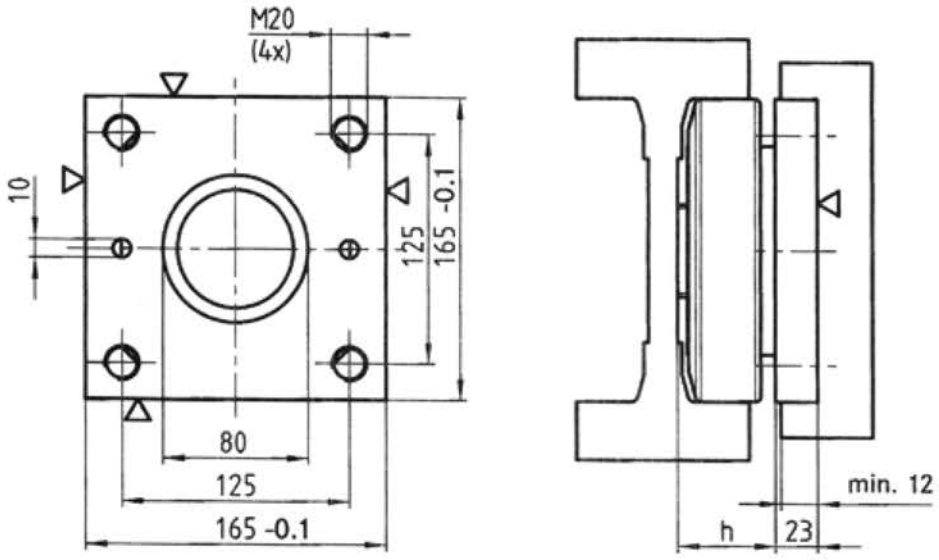
Ref.	Rodamiento	Perfil	h	Peso
AP 3-Q	2.2088	Standard 2.811	44	1,85kg
	4.058	Standard 2.811	44	
	4.458	Standard 2.811	44-45,5	
	4.076(P)	Standard 2.811	48	
	PR 2.2088	EC093L	44	
	PR 4.058	EC093L	44	
	PR 4.458	EC093L	44-45,5	



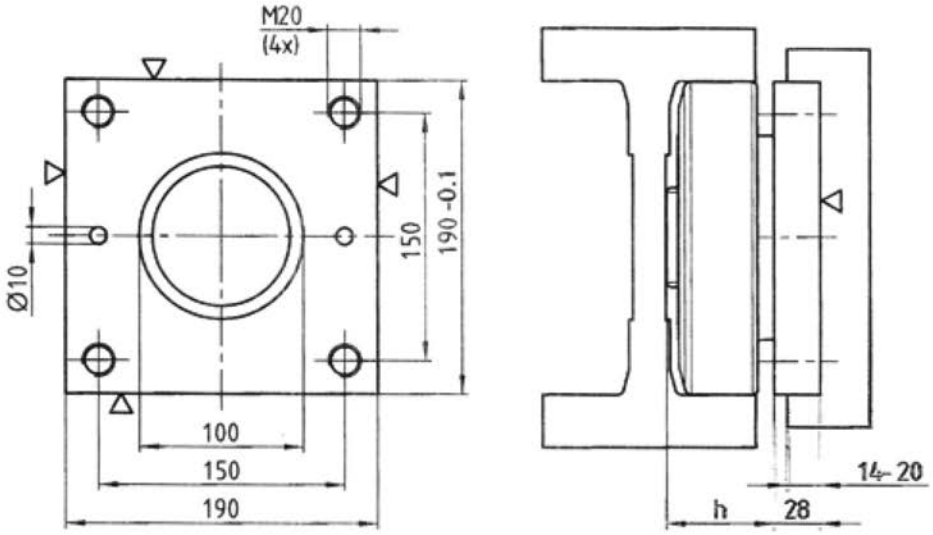
Ref.	Rodamiento	Perfil	h	Peso
AP 4-Q	22107	Standard 2862	55	2,2kg
	4061	Standard 2862	55	
	4461	Standard 2862	55-57	
	40784(P)	Standard 2862	55	
	PR 2.2107	EC112L	55	
	PR 4061	EC112L	55	
	PR 4461	EC112L	55-57	
	22123	Standard 2891	56	
	4062	Standard 2891	56	
	4462	Standard 2891	56-60	
	4079	Standard 2891	59,5	
	PR 2.2123	EC128L	56	
	PR 4062	EC128L	56	
	PR 4462	EC128L	56-60	



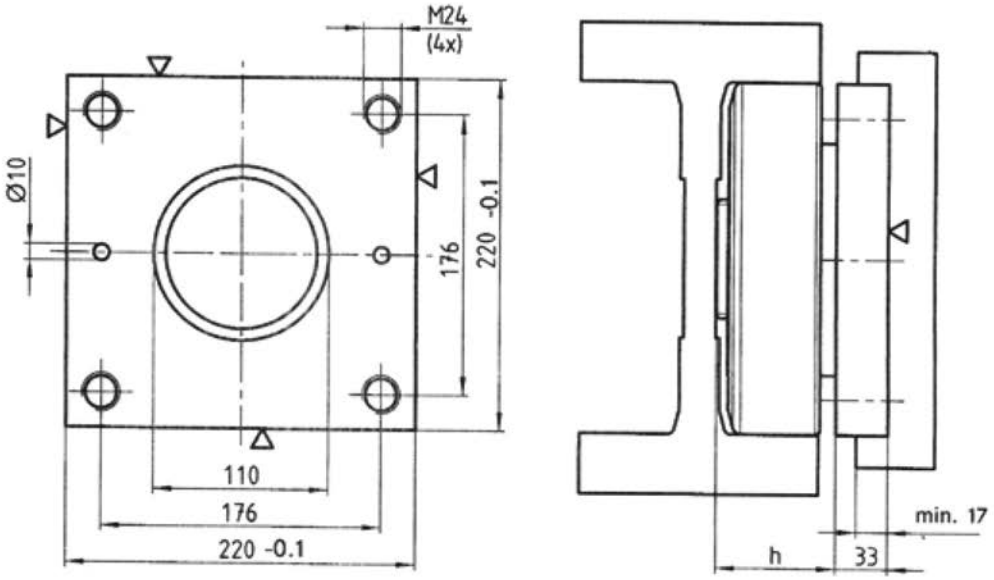
Ref.	Rodamiento	Perfil	h	Peso
AP 6-Q	2.2149	Standard 2.757	58,5	3,4kg
	4.063	Standard 2.757	58,5	
	4.463	Standard 2.757	58,5-62,5	
	4.080	Standard 2.757	69	
	4.080P	Standard 2.757	62	
	PR 2.2149	EC154L	58,5	
	PR 4.063	EC154L	58,5	
	PR 4.463	EC154L	58,5-62,5	



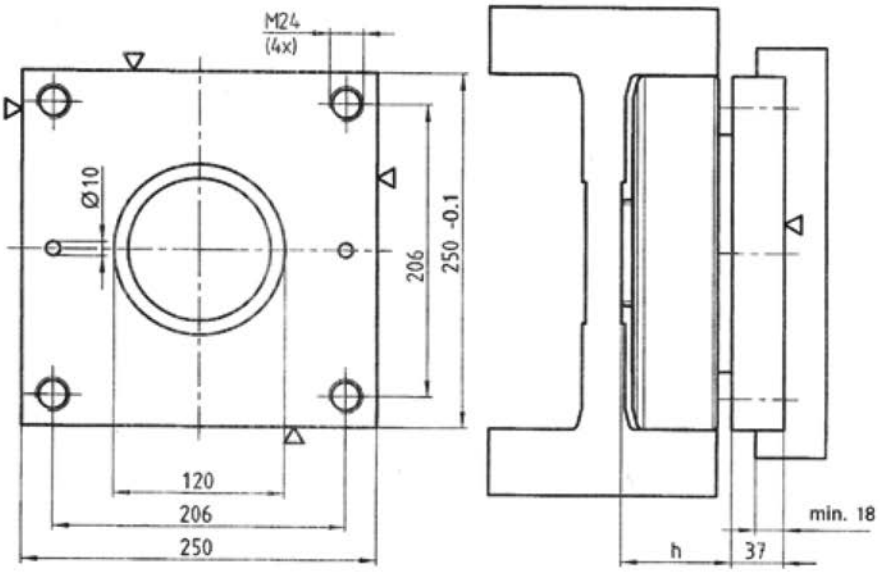
Ref.	Rodamiento	h	Peso
AP 89-Q	4.089	53-56	4,9



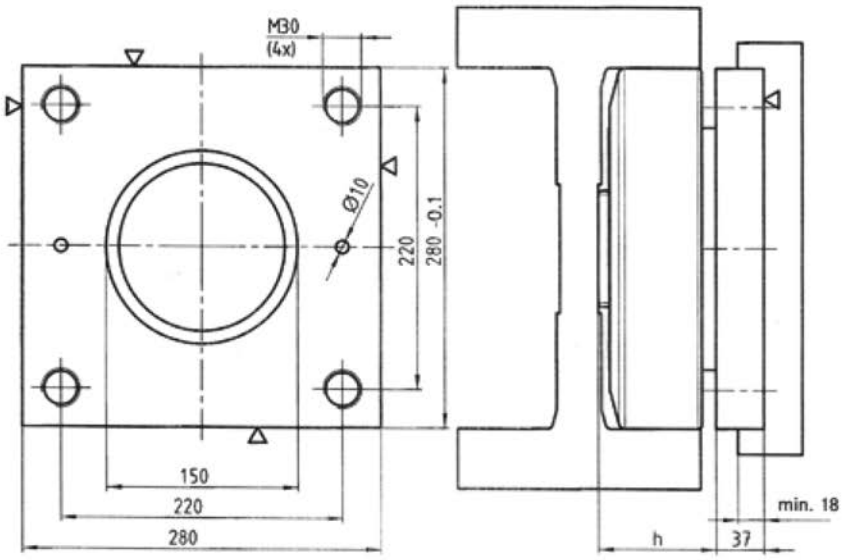
Ref.	Rodamiento	h	Peso
AP 90-Q	4.090	64,5-67,5	7,9



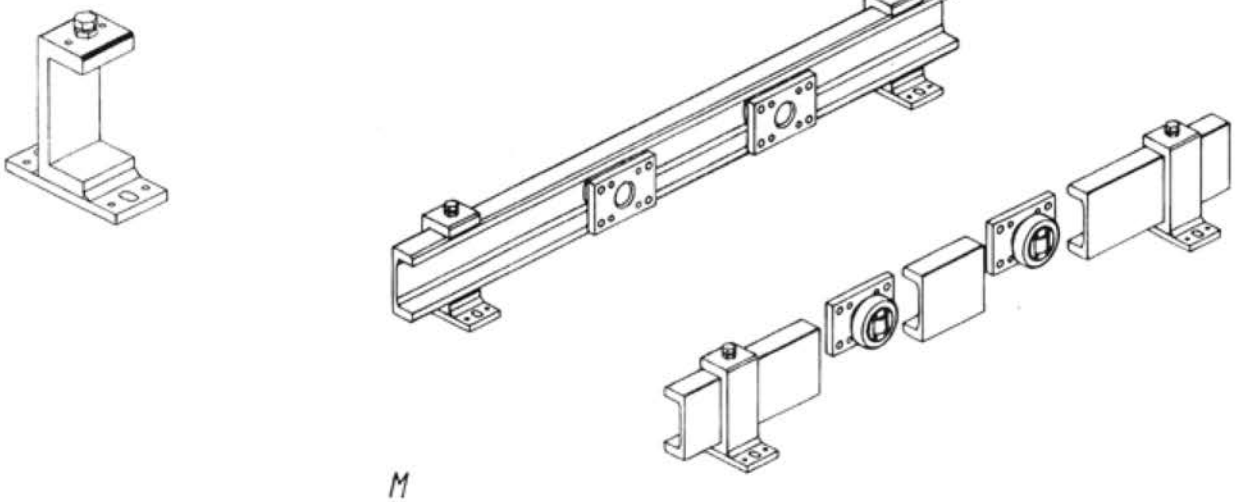
Ref.	Rodamiento	h	Peso
AP 91-Q	4.091	74,5-77,5	12,5

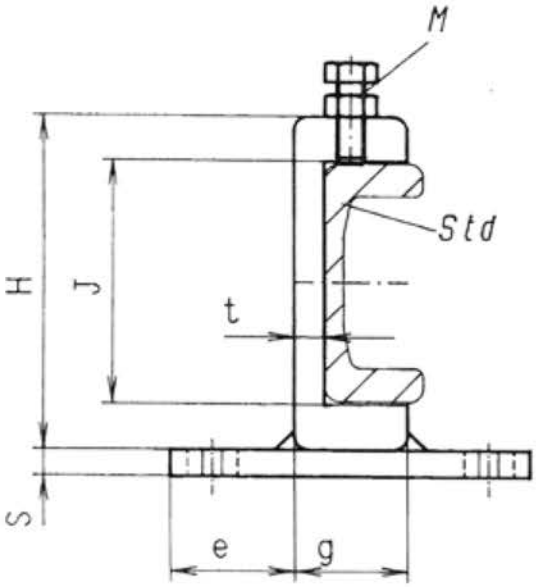


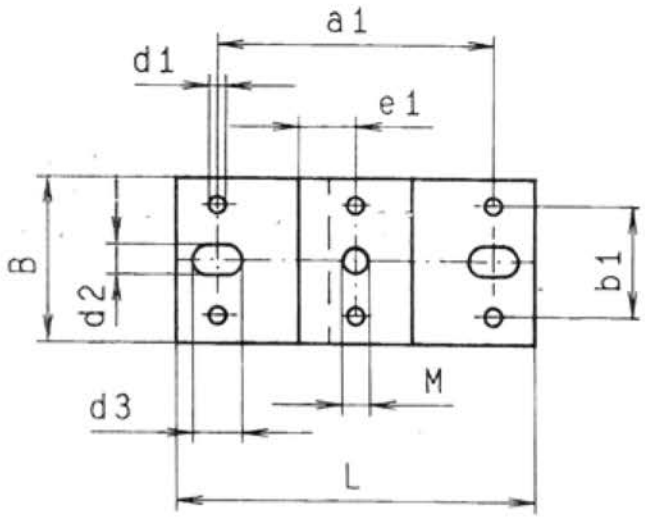
Ref.	Rodamiento	h	Peso
AP 92-Q	4.092	77-80	18



Ref.	Rodamiento	h	Peso
AP 93-Q	4.093	89,5-93,5	22



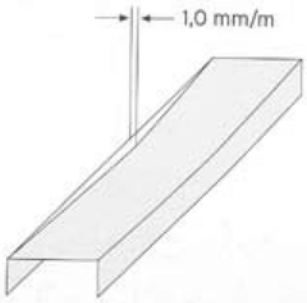


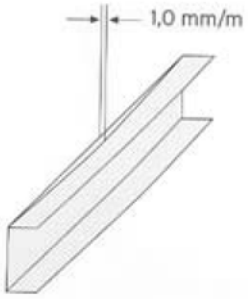


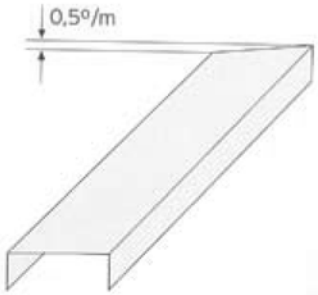
Tipo	Perfil	HH	B	L	S	J	e	g	t	a1	b1	d1	d2	d3	e1	M
KF 0	2890	121,3	60	130	10	88,5	44,5	41	10,8	100	40	6	11	18	20,5	M10x30
KF 1	2867	135,4	60	130	10	105	38,5	53	12,7	100	40	6	11	18	26,5	M10x30
KF 2	2810	157,2	80	160	15	123	49,5	61,2	14	130	60	6	13	18	30,6	M12x35
KF 3	2811	175	80	160	15	137,5	46,9	66,2	16,2	130	60	6	13	18	33,1	M12x35
KF 4	2862	201,5	80	160	15	159	44,4	71,2	19,4	130	60	6	13	18	35,6	M12x35

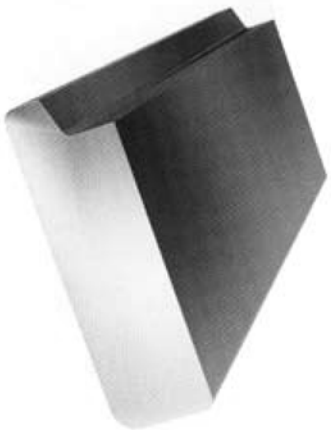
Fabricación en caliente, por extrusión o laminación.
Material: S355J2G3
Enderezado de precisión

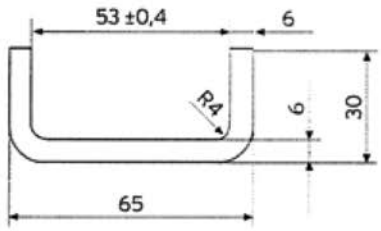
TOLERANCIAS



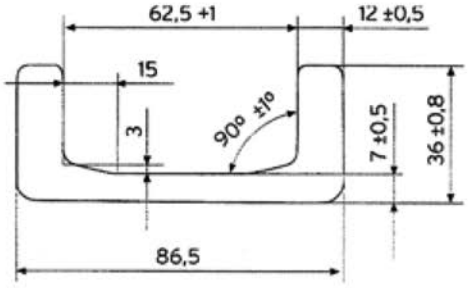




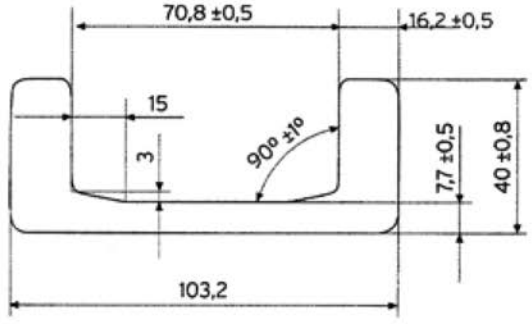




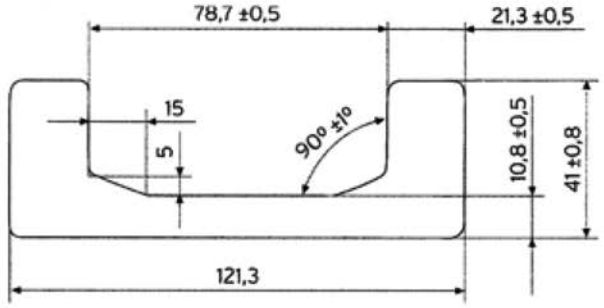
Perfil 2700	
kg/m: 5,3	
Wx: 11,9 cm3	Ix: 38,8 cm4
Wy: 2,5 cm3	Iy: 5,2 cm4
Ix: 2,4 cm	iy: 0,8 cm
ey: 0,94 cm	



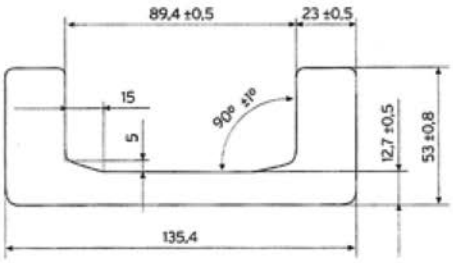
Perfil 2890	
kg/m: 10,5	
Wx: 32 cm3	Ix: 137 cm4
Wy: 6 cm3	Iy: 15 cm4
Ix: 3,2 cm	iy: 1,0 cm
ey: 1,3 cm	



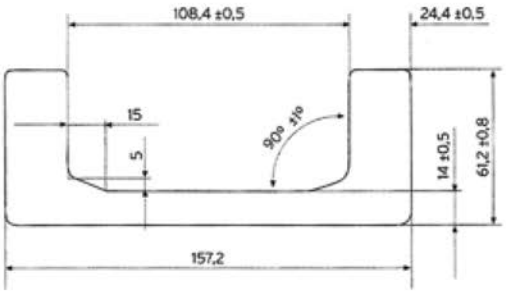
Perfil 2867	
kg/m: 14,8	
Wx: 53 cm3	Ix: 273 cm4
Wy: 11 cm3	Iy: 27 cm4
Ix: 3,8 cm	iy: 1,2 cm
ey: 1,5 cm	



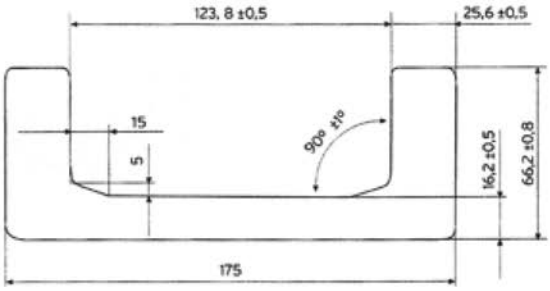
Perfil 2810	
kg/m:20,9	
Wx: 81 cm3	Ix: 493 cm4
Wy: 15 cm3	Iy: 38 cm4
Ix: 4,3 cm	iy: 1,2 cm
ey: 1,5 cm	



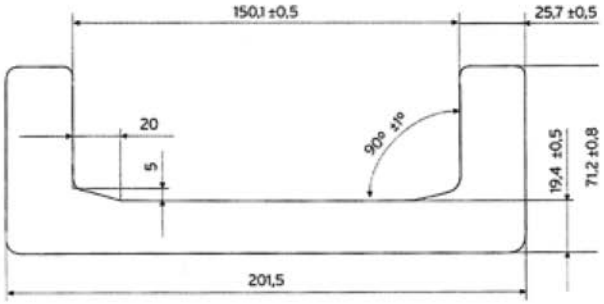
Perfil 2811	
kg/m: 28,6	
Wx: 128 cm3	Ix: 865 cm4
Wy: 27 cm3	Iy: 89 cm4
Ix: 4,8 cm	iy: 1,5 cm
ey: 2 cm	



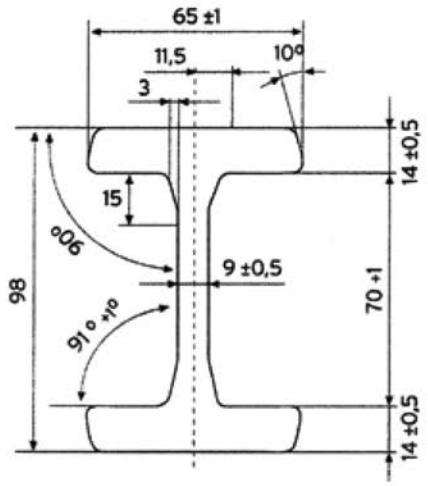
Perfil 2862	
kg/m: 36	
Wx: 190 cm3	Ix: 1494 cm4
Wy: 39 cm3	Iy: 150 cm4
Ix: 5,7 cm	iy: 1,8 cm
ey: 2,2 cm	



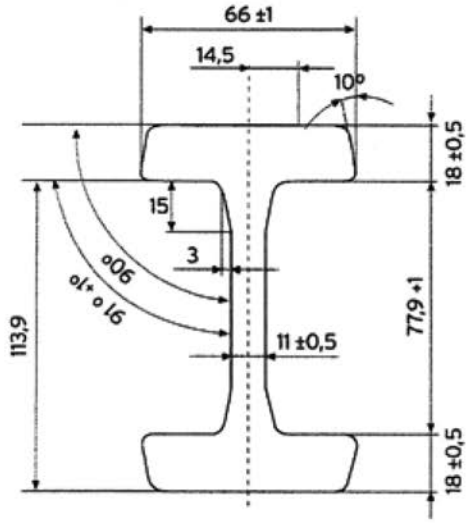
Perfil 2891	
kg/m: 42,9	
Wx: 250 cm3	Ix: 2185 cm4
Wy: 48 cm3	Iy: 205 cm4
Ix: 6,3 cm	iy: 1,9 cm
ey: 1,9 cm	



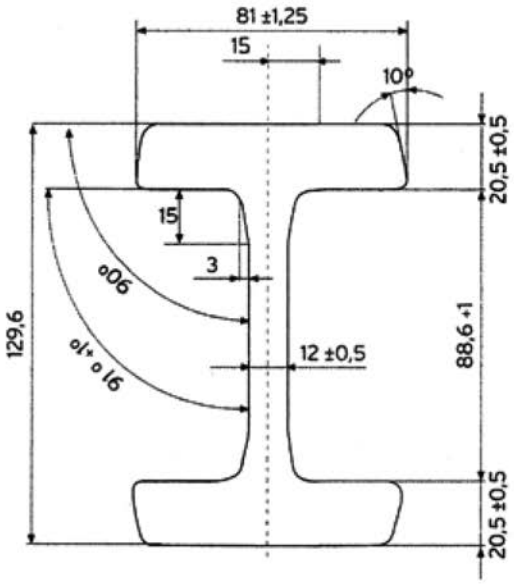
Perfil 2757	
kg/m: 52,3	
Wx: 340 cm3	Ix: 3423 cm4
Wy: 57 cm3	Iy: 270 cm4
Ix: 7,1 cm	iy: 2,0 cm
ey: 2,0 cm	



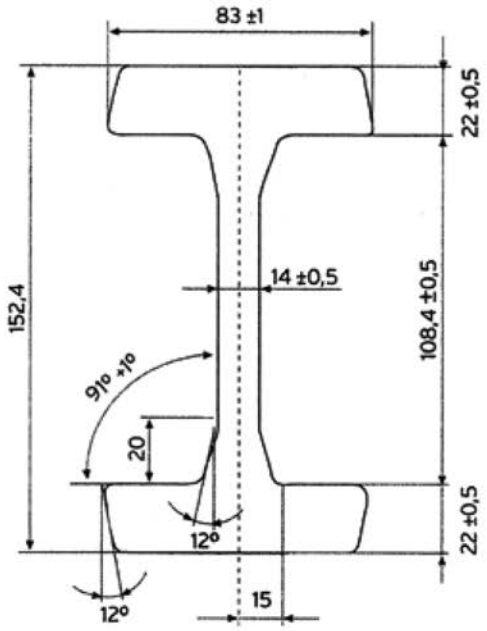
Perfil 3018	
kg/m: 19,4	
Wx: 70,06 cm3	Wy: 17,62 cm3
Ix: 343,29 cm4	Iy: 57,14 cm4



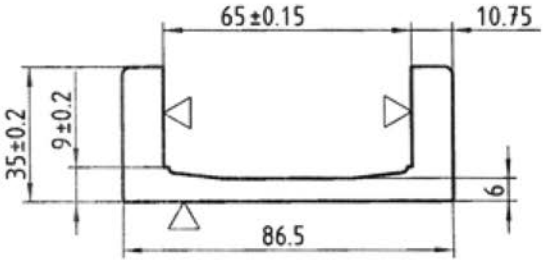
Perfil 3019	
kg/m: 25,3	
Wx: 104,9 cm3	Wy: 23,2 cm3
Ix: 597,5 cm4	Iy: 76,8 cm4



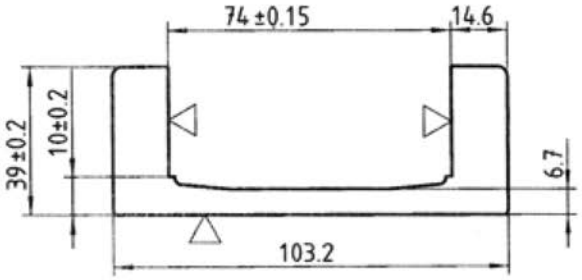
Perfil 3020	
kg/m: 34,1	
Wx: 159,73 cm3	Wy: 40 cm3
Ix: 1035,09 cm4	Iy: 161 cm4



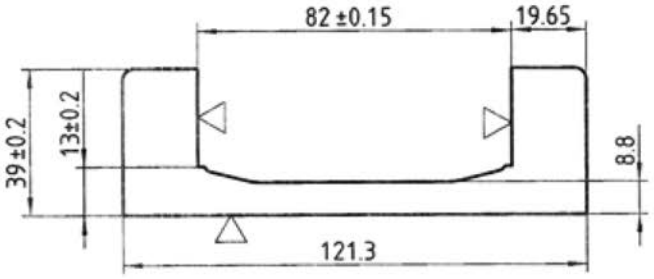
Perfil 3100	
kg/m: 40,5	
Wx: 219,2 cm3	Wy: 44,5 cm3
Ix: 1670,04 cm4	Iy: 184,5 cm4



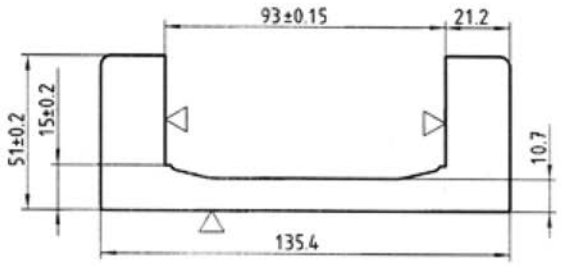
Perfil EC 065L	
kg/m: 9,4	
Wx: 24 cm3	Wy: 6 cm3
Ix: 126 cm4	Iy: 13 cm4
ey: 1,23 cm	



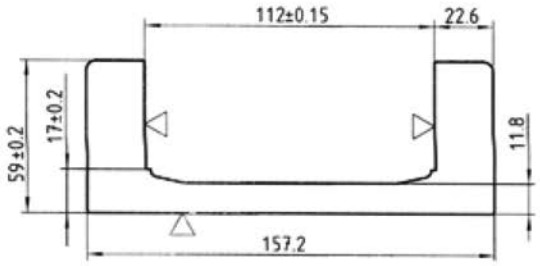
Perfil EC 074L	
kg/m: 13,4	
Wx: 41 cm3	Wy: 10 cm3
Ix: 255 cm4	Iy: 25 cm4
ey: 1,43 cm	



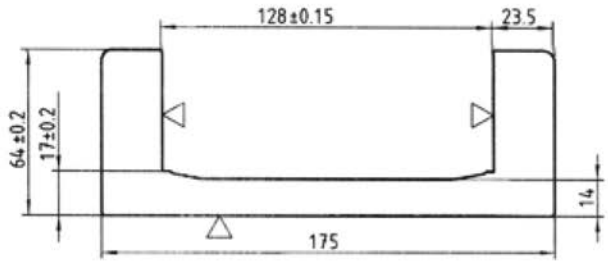
Perfil EC 082L	
kg/m: 17,8	
Wx: 63 cm3	Wy: 13 cm3
Ix: 449 cm4	Iy: 36 cm4
ey: 1,47 cm	



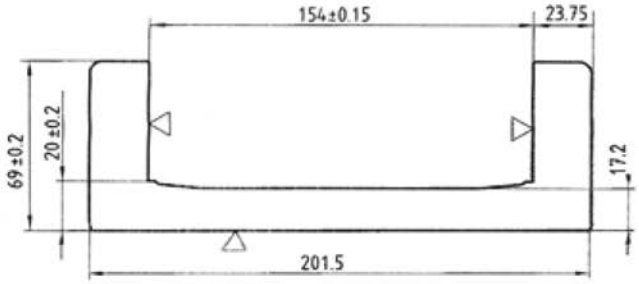
Perfil EC 093L	
kg/m: 24,9	
Wx: 99 cm3	Wy: 25 cm3
Ix: 795 cm4	Iy: 80 cm4
ey: 1,92 cm	



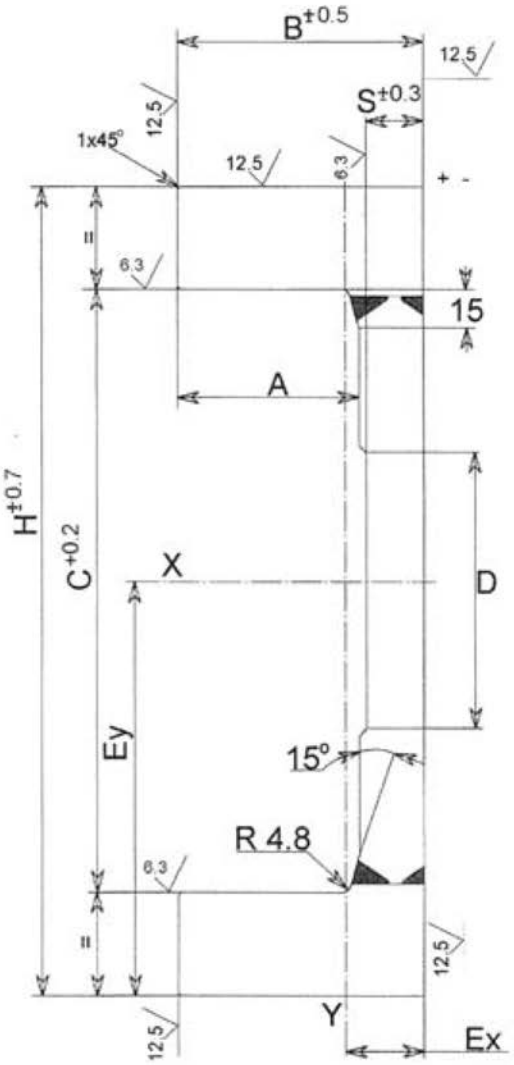
Perfil EC 112L	
kg/m: 32,1	
Wx: 148 cm3	Wy: 37 cm3
Ix: 1382 cm4	Iy: 138 cm4
ey: 2,15 cm	



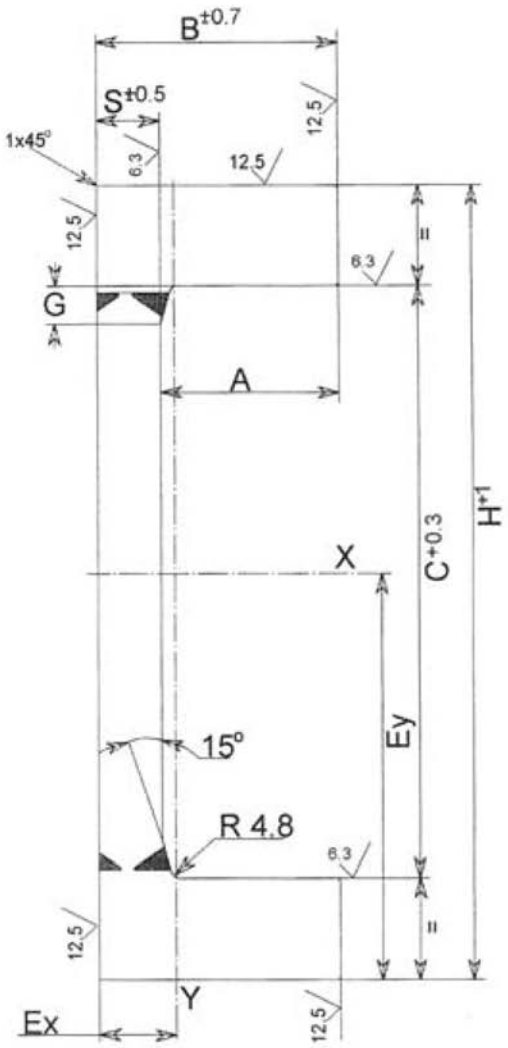
Perfil EC 128L	
kg/m: 36,3	
Wx: 188 cm3	Wy: 45 cm3
Ix: 1980 cm4	Iy: 195 cm4
ey: 2,31 cm	



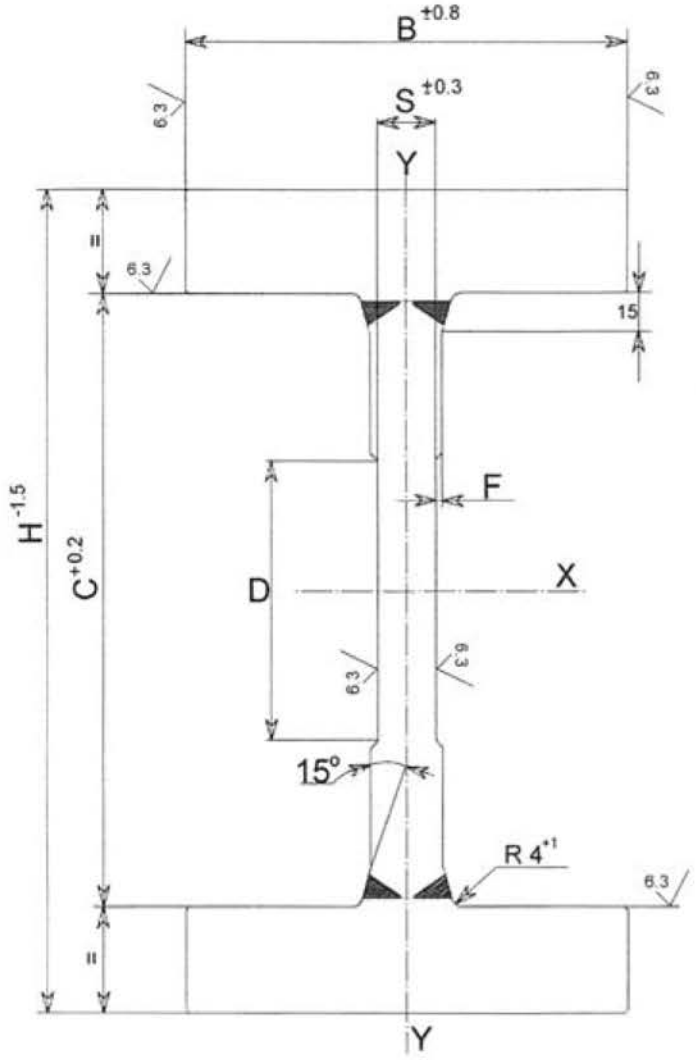
Perfil EC 154L	
kg/m: 44,7	
Wx: 259 cm3	Wy: 53 cm3
Ix: 3117 cm4	Iy: 240 cm4
ey: 2,32 cm	



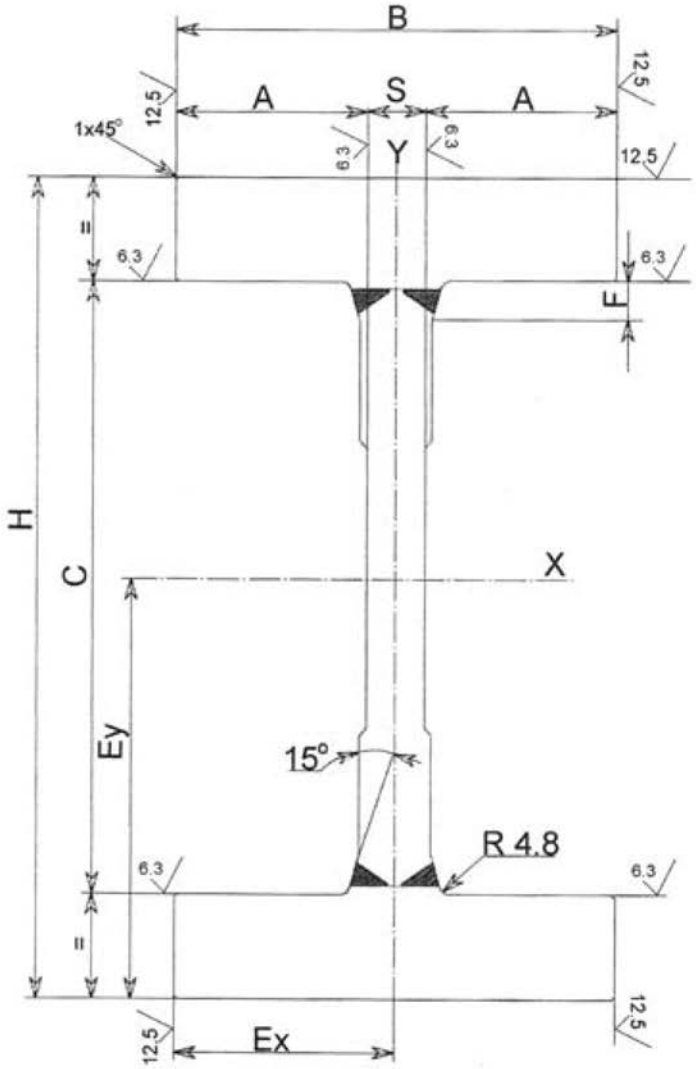
Ref.	Dimensiones								Peso	Momento de inercia		Modulo de resistencia	
	C	H	B	S	D	A	Ex	Ey	Kg/m	Jx - cm4	Jy - cm4	Wx - cm3	Wy - cm3
FC 165	165,4	230	57,5	18	80	38,5	19,9	115	53,3	4410,5	174,6	383,5	87,5
FC 190	190,4	255	77	22	80	53	25,9	127,5	73,7	7631,6	434,2	598,6	167,7
FC 220	220,4	295	85	20	125	62,5	29	147,5	86,1	12632,7	6720,4	856,5	231,7
FC 250	250,4	344	94	26,5	125	65,5	32,4	172	122,8	23371,6	1117,4	1358,8	344,9



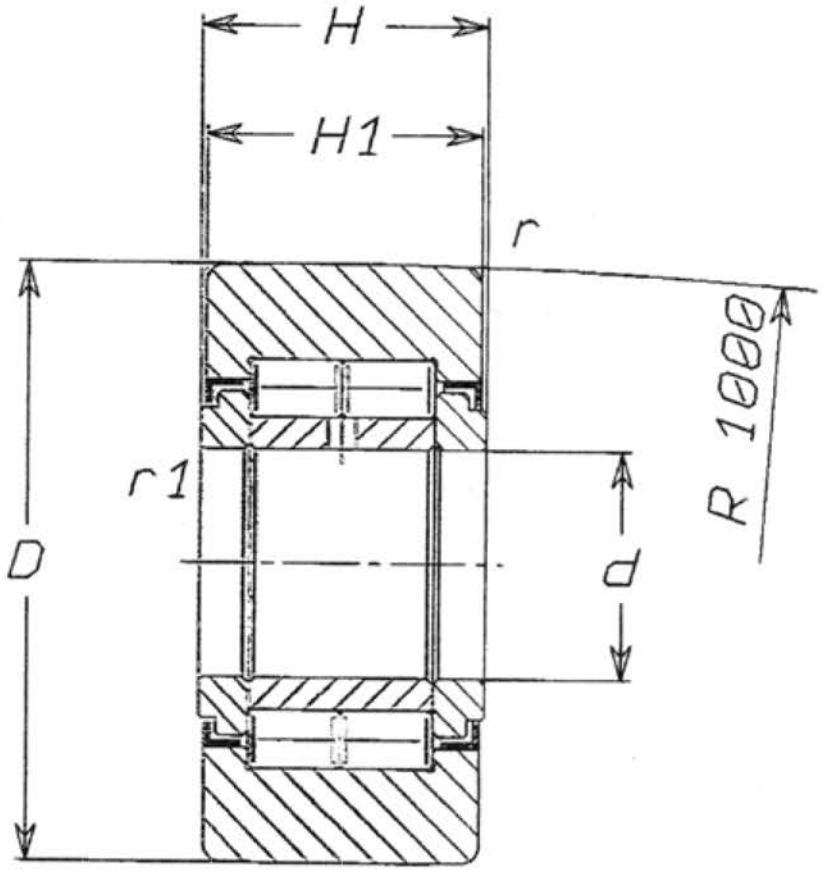
Ref.	Dimensiones								Peso	Momento de inercia		Modulo de resistencia	
	C	H	B	S	D	A	Ex	Ey	Kg/m	Jx - cm4	Jy - cm4	Wx - cm3	Wy - cm3
FC 123L	123,3	175	66	16	13	50	23,77	87,5	42,37	2181,6	206	249,3	86,7
FC 149L	149,4	202	71,2	19,4	15	51,8	24,26	101	52,31	3480,6	276,5	344,6	114



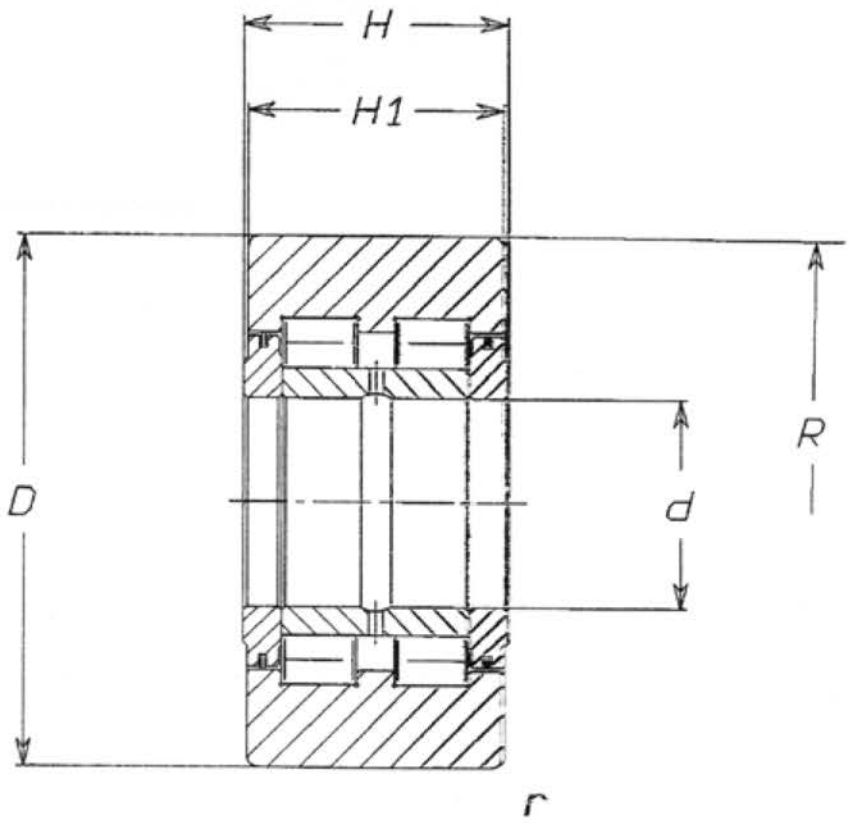
Ref.	Dimensiones						Peso	Momento de inercia		Modulo de resistencia		Capacidad de la carga nominal	Baricentro
	C	H	B	S	F	D	Kg/m	Jx/cm4	Jy/cm4	Wx/cm3	Wy/cm3		
FM 165	165,4	230	95	16	1	70	72,7	6894	472	600	99	100	600
FM 165 R	165,4	230	115	16	1	70	81,05	8072	826	702	144	100	600
FM 190	190,4	255	130	20	2	70	100,4	12003	1203	941	185	160	600
FM 220	220,4	295	150	20	2	90	126,3	20991	2119	1423	283	180	1200
FM 250	250,4	345	160	25	2	90	172,7	37838	3274	2206	409	280	1200
FM 260	260,4	345	160	25	2	90	162,6	35647	2935	2066	367	280	1200
FM 280	280,4	375	190	190	2	120	212,8	55163	5492	2942	578	360	1200
FM 280 R	280,4	395	190	190	2	120	242,4	69247	6634	3506	698	420	1200



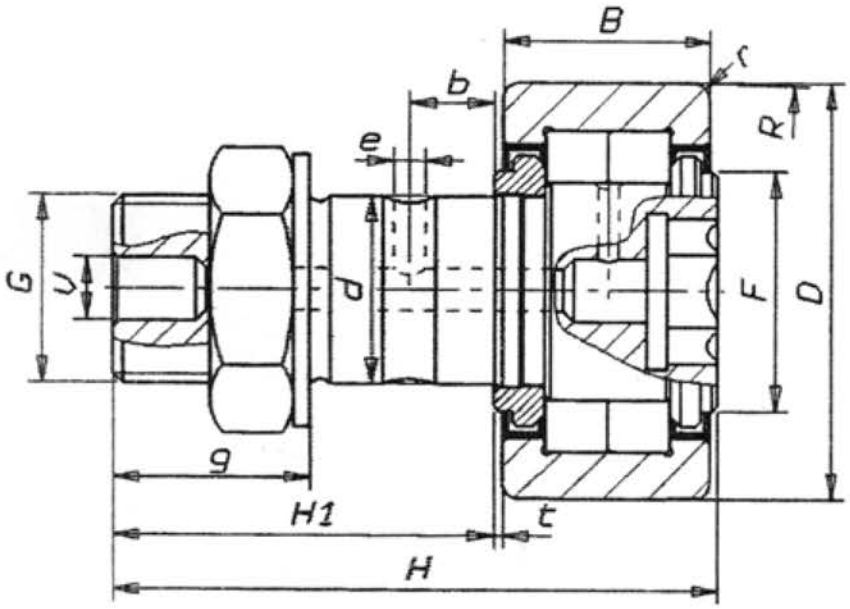
Ref.	Dimensiones								Peso	Momento de inercia		Modulo de resistencia	
	C (+0.2)	H	B (+0.7)	S (+0.3)	D	A	Ex	Ey	Kg/m	Jx - cm4	Jy - cm4	Wx - cm3	Wy - cm3
FI 108	108,4	153	80	13	13,5	33,5	40	76	39,8	1708	194	223,3	48,5
FI 123	123,3	176	90	15	15	37,5	45	88	52,3	2952,9	323,8	335,6	71,9
FI 149	149,3	205	118	18	15	50	59	102,5	72,9	5742,6	769,5	560,3	130,4



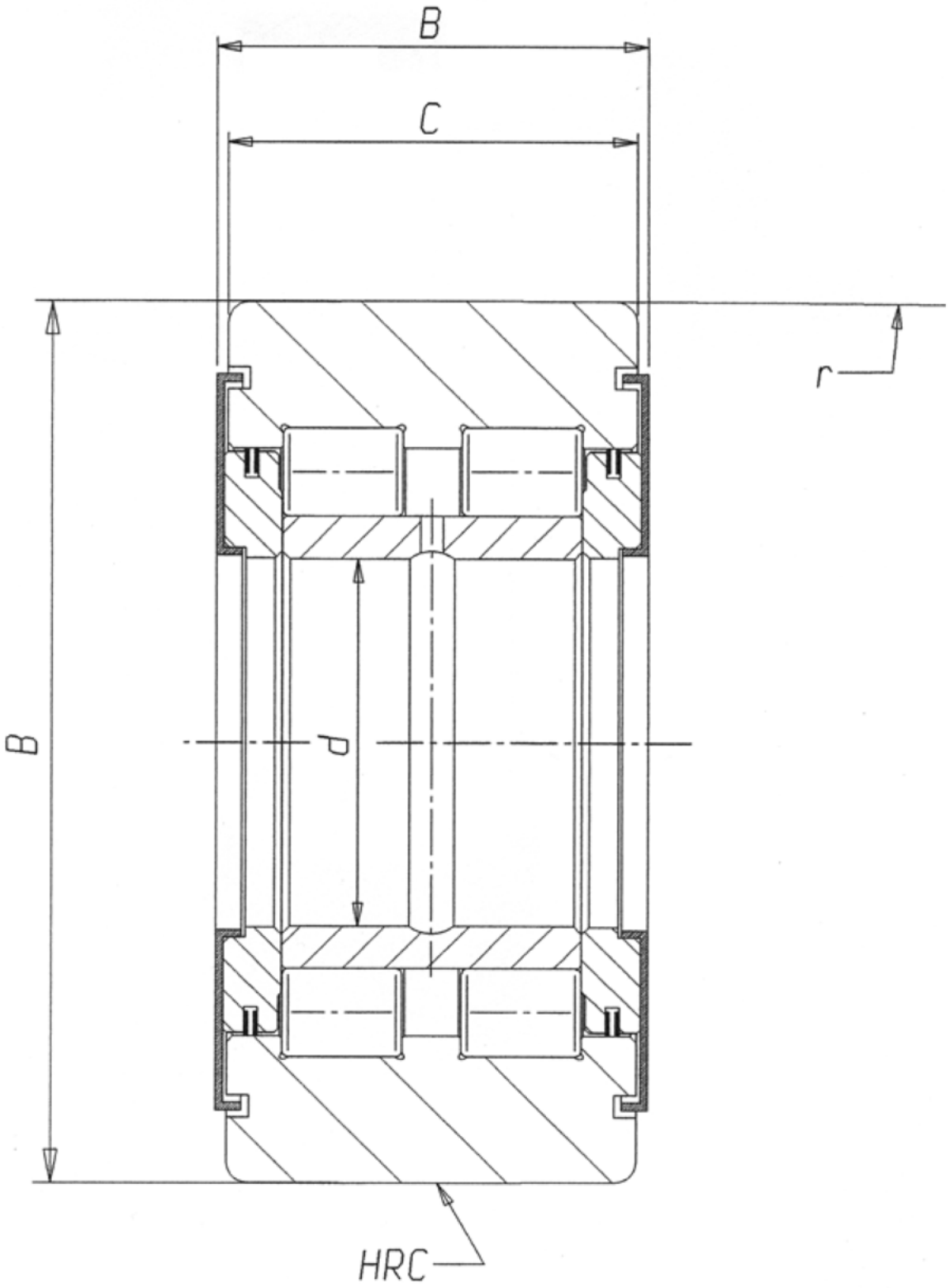
Ref.	d	D	H1	H	r1	r	C	Co	V Max
20-47	20	47	24	25	0,5	1,5	40	53	4000
20-52	20	52	24	25	0,5	1,5	40	53	4000
25-52	25	52	24	25	0,5	1,5	46	62	3200
25-62	25	62	24	25	0,5	1,5	46	62	3200
30-62	30	62	28	29	0,5	1,5	56	75	2500
30-72	30	72	28	29	0,5	1,5	56	75	2500
35-72	35	72	28	29	1	2	60	84	2100
35-80	35	80	28	29	1	2	60	84	2100
40-80	40	80	30	32	1	2	86	123	1700
40-90	40	90	30	32	1	2	86	123	1700
45-85	45	85	30	32	1	2	89	133	1520
45-100	45	100	30	32	1	2	89	133	1520
50-90	50	90	30	32	1	2	94	143	1400
50-110	50	110	30	32	1	2	94	143	1400
55-100	55	100	34	36	1	2	115	187	1310
55-120	55	120	34	36	1	2	115	187	1310
60-110	60	110	34	36	1,5	2,5	125	195	1230
60-130	60	130	34	36	1,5	2,5	125	195	1230
65-120	65	120	40	42	1,5	2,5	166	257	1150
65-140	65	140	40	42	1,5	2,5	166	257	1150
70-125	70	125	40	42	1,5	2,5	173	267	1060
70-150	70	150	40	42	1,5	2,5	173	267	1060



Ref.	d	D	H1	H	R	r	Co	C	Cow	Cw	V Max
NNUPR 50-130	50	130	63	65	10000	3	352	227	319	191	1000
NNUPR 55-140	55	140	68	70	10000	3	400	270	370	210	900
NNUPR 60-150	60	150	73	75	10000	3	522	2327	395	270	800
NNUPR 65-160	65	160	73	75	10000	3	563	355	360	250	700
NNUPR 70-180	70	180	83	85	10000	3	650	420	630	340	600
NNUPR 80-200	80	300	88	90	10000	4	775	490	760	410	500
NNUPR 90-220	90	220	98	100	10000	4	1070	635	674	433	400
NNUPR 100-240	100	240	103	105	10000	4	1200	720	1050	550	350
NNUPR 110-260	110	260	113	115	10000	4	1400	785	1050	620	300
NNUPR 120-290	120	290	133	135	10000	4	1900	1100	1700	870	280
NNUPR 130-310	130	310	144	146	10000	5	2250	1235	2000	1000	250
NNUPR 140-340	140	340	160	162	10000	5	2900	1350	2550	1190	180
NNUPR 150-360	150	360	171	173	10000	5	3150	1650	3000	1300	160



Ref.	d	D	B	r	H	H1	t	G	v	b	e	F	g	C	Co	C Max
35	16	35	18	1	52	32,5	0,8	M 16x1,5	6	8	3	20	17	24	31	6500
40	18	40	20	1,5	58	36,5	0,8	M 18x1,5	6	8	3	23	19	30	33	5500
47	20	47	24	1,5	66	40,5	0,8	M 20x1,5	8	9	4	27	21	37	47	4200
52	20	52	24	1,5	66	40,5	0,8	M 20x1,5	8	9	4	27	21	43	55	3400
62	24	62	29	1,5	80	49,5	0,8	M 24x1,5	8	11	4	36	25	51	66	2600
72	24	72	29	2	80	49,5	0,8	M 24x1,5	8	11	4	42	25	56	86	2100
80	30	80	35	2	100	63	1	M 30x1,5	8	15	4	51	32	93	138	1000
90	30	90	35	2	100	63	1	M 30x1,5	8	15	4	51	32	95	143	1000
100	36	100	35	3										115	187	1310
110	36	110	35	3	105	68	1	M 36x1,5	8	15	4			125	195	1230
120	42	120	40	3										166	257	1150
130	42	130	48	3										177	303	1000
140	45	140	48	3										191	352	920
150	50	150	48	3										225	391	840
160	55	160	54	3										299	479	770
170	60	170	54	3										313	508	700
180	70	180	63	4										400	697	63
190	55	190	54	3										299	479	770
200	80	200	63	4										429	728	580
215	95	215	63	4										473	749	550
230	100	230	75	5										585	978	520
240	80	240	63	4										429	728	580
250	110	250	75	5										651	1054	590
260	100	260	75	5										585	978	532
270	130	270	75	5										694	1175	631
280	100	280	75	5										585	978	532
300	120	300	75	5										651	1054	590
320	130	320	75	5										694	1175	631


B
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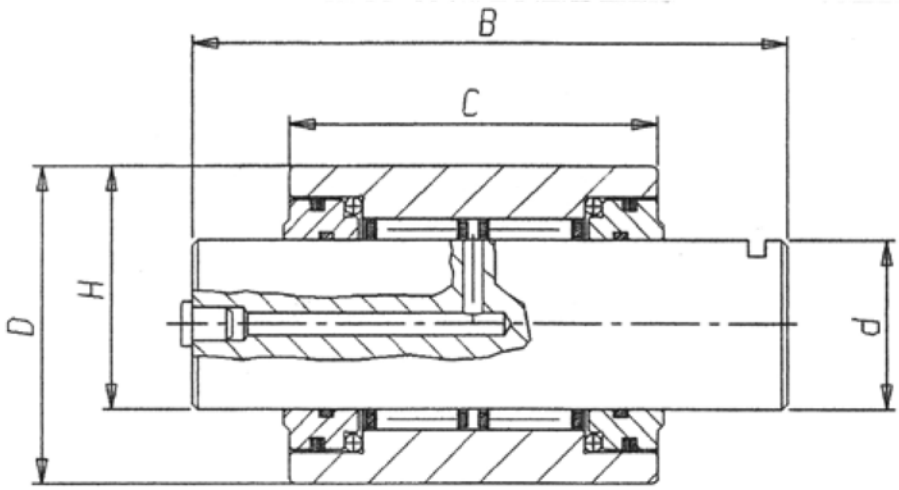
HRC

CONTRARRODILLOS SIMPLES

Ref.	D	d	C	B	H	Max dyn	Max stat.	CW	C0W	n max/1'
21740	48	20	36	38	BAJO PEDIDO	26,4	38	30,3	38,9	3400
22378	50,85	15,88	24,51	25,53		20	27	23,4	27,3	3400
22320	60	25	40	43		37	52	39	55	2500
20279B	72	30	38	41		38	60	47	80	1600
21196	74	25	43	46		49	68	68	90	2200
21197	80	35	44	48		53	74	69	104	1800
22541	85	35	50	54		65	90	80	95	1300
20059	90	40	32	35		45	63	32	60	1600
22213	95	40	51	55		59	90	100	170	1100
21193	100	45	37	40		58	81	64	97	1300
21949	105	50	56	60		92	128	119	199	1250
21537	110	45	56	60		91	128	114	177	1200
22403	120	50	47	48		82	114	99	120	1100
21249	120	50	55	58		98	140	81	177	1100
22544	125	50	55	58		102	142	133	182	1100
20701	130	50	46	50		89	124	100	140	1000
21695A	130	50	63	65		130	181	191	319	1000
20984	135	60	42	44		85	119	99	141	1100
20695	140	55	56	60		121	170	174	287	850
21791	140	55	68	701cm		144	202	190	305	800
22409	150	60	48	50		110	153	140	192	800
21650	150	60	74	75		175	242	270	395	750
20471	150	60	61	65		142	193	216	262	750
20697	160	65	67	71		165	230	232	395	650
21686	160	65	73	75		178	249	250	360	650
21704	180	65	72	78		198	275	277	523	600
21581A	180	70	83	85		300	425	300	470	600
21948	180	90	98	102		273	377	350	756	450
22462	200	75	78	78		230	330	280	285	900
21578	200	80	88	90		141	190	350	540	500
22298	200	90	120	125		366	510	437	777	350
22301	215	100	101	105		340	474	300	504	350
21955	240	100	101	105		200	315	642	1100	300
21880A	250	100	103	106		208	325	544	1000	300
21871A	260	110	113	115		450	635	620	1050	300
22157	280	120	112	118		370	520	615	1100	250
20498	280	120	121	124		430	735	640	1150	250


B
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D
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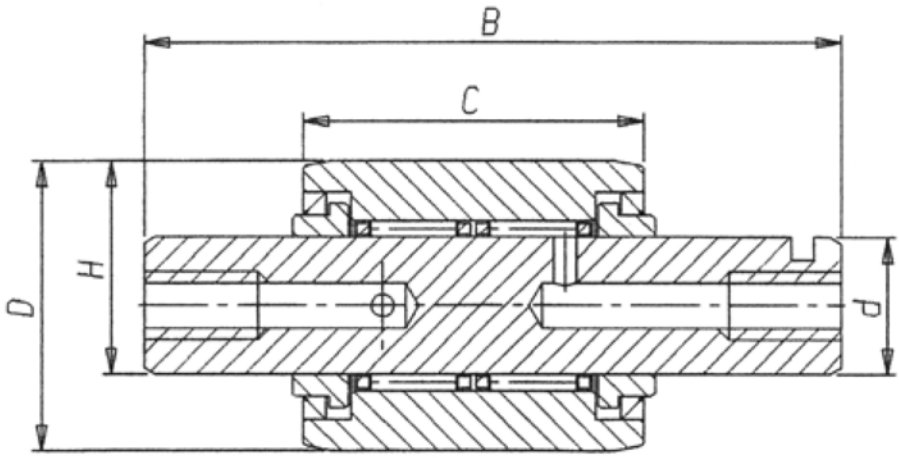
d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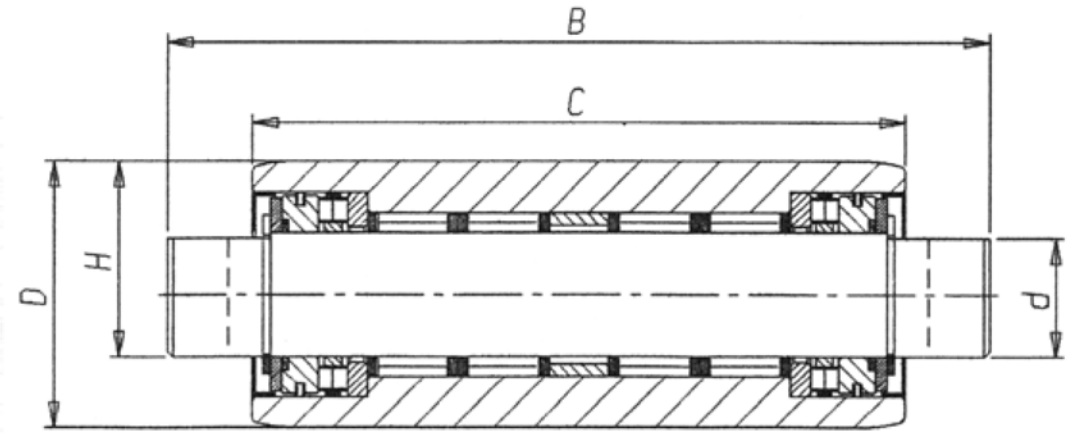
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CONTRARRODILLOS CON EJE

Ref.	D	d	C	B	H	Max dyn	Max stat.
22520	185	100	270	435		740	1030
22599	180	90	125	215		357	498
22586	160	65	203	325		4540	755
22158	134	55	80	146	87	156	218
22186	120	55	225	273			
22185	120	55	205	253			
22513	120	55	160	208		303	425
22337	105	55	150	234	80	160	230
22507	103	55	132	200		185	257
22418	100	45	194	240	62,5		
21879	100	40/60	196	278	70	167	220
22419	100	45	314	360			
22509	100	50	270	332	75		300
22580	100	50	395	337		230	370
22579	100	50	180	222	45	265	270
22578	95	45	348	390		200	440
22577	95	45	215	257	40	300	
21847	90	45	100	141	60,5		
22497	83	50	32,5	165		108	155
22498	83	50	32,5	141		108	155
21875	80	35	58,5	99,5	57,5	47	65
21874	80	35	160,3	201	57,5		
22534	80	42	150	252		125	175
22522A	80	35	160	201	57,5		
22522	80	35	262	302,5	57,5		
22453	74	80	150	192	57	120	160
21798	70	40/30	102	166	55	82	115
21551A	66	28	80	120	47	60	84
21956	65	28	136	200	40,5	87	120
22336	63	35	74,5	115	49	58	80
21701A	56	30	65,5	105	43	49	69
20838	52	25	78	138	38,5	47	66
22431	52	28	69	110	40	41	50
22456	48	25	58	95	36,5	38	45
21869B	47	22	115	145	34,5	55	76
22291	47	20	115	145	31,8	55	76
22515	47	17	140	170		100	135
22332	47	20	70	110		39	54
20515	45	22	51	82	31	22	31
21802Mod.	45	20	68	102	32,5	38	52
22098A	42	16	70	126	27	35	49
21702A	41	20	48	81	30,5	22	31

Ref.	D	d	C	B	H	Max dyn	Max stat.
22482	41	20	78	127		30	45
21323	38	20	65	107	29	30	42
21770	38	16	50	95		15	19
21112	37	18	57	102	27,5	25	34
22382	36	18	48	81	27	19	27
21891	33	15	50	95	17	12	18
22547	32	16	100	164		35	44
22502	31	15	44	77		18	25
22516	30		100	164		35	48
21731A	25,5	12	30	61,5	18,75	9	13

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