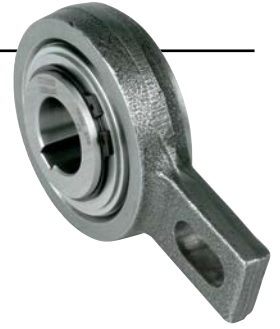


RSBW



TYPE



Type RSBW is a DC sprag type freewheel. It is self-contained, centered by plain bearings for low rotational speeds and sealed using shield protected O-Rings.

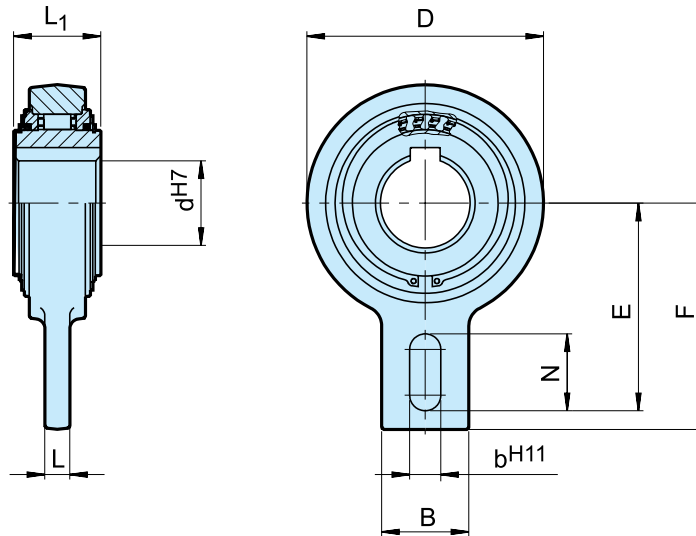
Unit is delivered grease lubricated ready for installation in either a horizontal or vertical position. Primarily used as a backstop, this type provides a high torque capacity with a minimum space requirement.

The design allows installation in difficult environments such as high humidity or water splash areas. A bolt, secured to a fixed part of the machine and passing through the slot in the torque arm, provides the rotational stop. Radial clearance on this bolt should be equal to 1–3 % of the slot width. The torque arm and the bearings must not be prestressed.

Self-Contained Freewheels

RSBW

RSBW



Type	Size	Overrunning speed										Weight
	d ^{H7} [mm]	T _{KN} ¹⁾ [Nm]	n _{imax} [min ⁻¹]	D [mm]	L ₁ [mm]	F [mm]	E [mm]	B [mm]	N [mm]	L [mm]	b ^{H11} [mm]	[kg]
RSBW	20	375	400	106	35	113	102,5	40	35	15	18	2
	25	606	400	106	48	113	102,5	40	35	15	18	2,6
	30	606	400	106	48	113	102,5	40	35	15	18	2,5
	35M	375	400	106	35	113	102,5	40	35	15	18	2
	35	606	400	106	48	113	102,5	40	35	15	18	2,4
	40	1295	300	132	52	125	115	60	35	15	18	4,6
	45	1295	300	132	52	125	115	60	35	15	18	4,5
	50	1295	300	132	52	125	115	60	35	15	18	4,5
	55	1295	300	132	52	125	115	60	35	15	18	4,4
	60	2550	250	161	54	140	130	70	35	15	18	6,5
	70	2550	250	161	54	140	130	70	35	15	18	6,4
	80	4875	200	190	70	165	150	70	45	20	25	9,9
	90	4875	200	190	70	165	150	70	45	20	25	9,8

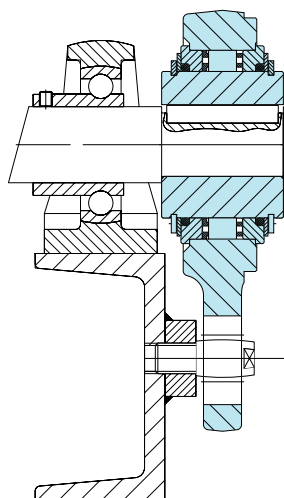
NOTES

- 1) $T_{max} = 2 \times T_{KN}$
 » Refer to Selection page 7 to 11

Keyway to DIN 6885.1

» Refer to mounting and maintenance instructions
 page 12 to 13

MOUNTING EXAMPLE



Self-Contained Freewheels

AV



TYPE



Type AV is a roller type freewheel. It is self-contained, centered by plain bearings for low rotational speeds, and sealed using shield protected metallic labyrinth seals

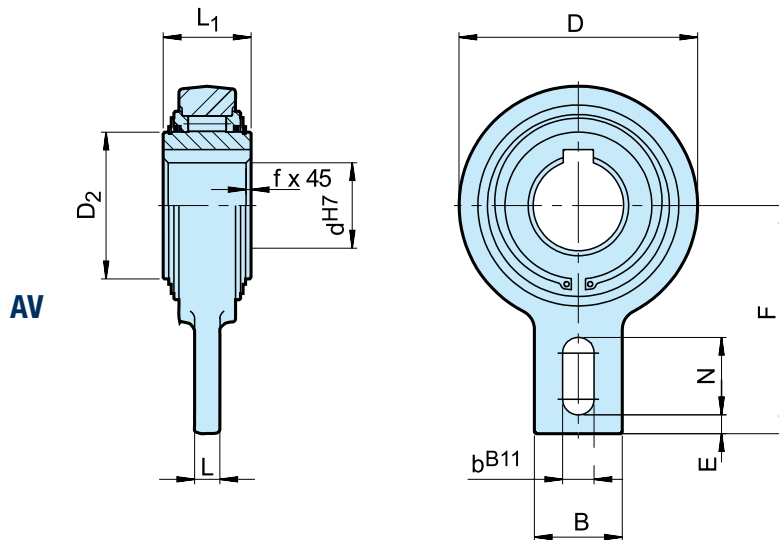
Unit is delivered grease lubricated, ready to install in a horizontal or vertical position. Primarily used as a backstop, the torque capacity is high for a minimum space requirement. This design is suitable for use in difficult environments.

A bolt, secured to a fixed part of the machine and passing through the slot in the torque arm, provides the rotational stop. Radial clearance on this bolt should be equal to 1–3 % of the slot width.

The torque arm and the bearings must not be prestressed. The roller design makes the AV type ideal for light indexing applications.

Self-Contained Freewheels

AV



Type	Size	Overrunning speed												Weight	Drag torque
	d_{H7} [mm]	$T_{KN}^{1)}$ [Nm]	n_{imax} [min ⁻¹]	D [mm]	D ₂ [mm]	L ₁ [mm]	L [mm]	B [mm]	F [mm]	bB11 [mm]	N [mm]	E [mm]	f [mm]	[kg]	T _R [Ncm]
AV	20	265	450	83	42	35	12	40	90	15	35	5	0,8	1,3	18
	25	265	450	83	42	35	12	40	90	15	35	5	0,8	1,3	18
	30	1200	320	118	60	54	15	40	110	15	35	8	1	3,5	130
	35	1200	320	118	60	54	15	40	110	15	35	8	1	3,4	130
	40	1200	320	118	60	54	15	40	110	15	35	8	1	3,3	130
	45	2150	280	155	90	54	20	80	140	18	47	10	1	5,5	240
	50	2150	280	155	90	54	20	80	140	18	47	10	1	5,4	240
	55	2150	280	155	90	54	20	80	140	18	47	10	1	5,3	240
	60	2150	280	155	90	54	20	80	140	18	47	10	1	5,2	240
	70	2150	280	155	90	54	20	80	140	18	47	10	1	5,0	240
	80	2900	200	190	110	64	20	80	155	20	40	10	1,5	8,7	360
	90*	7125	150	260	160	90	25	120	220	—	—	—	3	24,5	360
	100*	7125	150	260	160	90	25	120	220	—	—	—	3	23,5	360
	110*	7125	150	260	160	90	25	120	220	—	—	—	3	22,5	360
	120*	11000	130	300	180	110	30	140	260	—	—	—	3	42	600

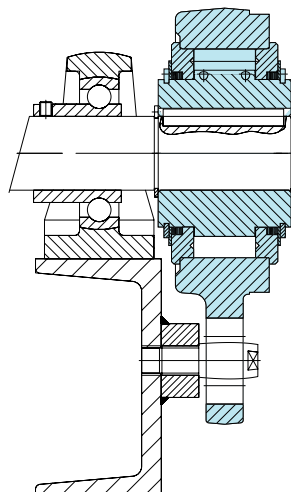
NOTES

1) $T_{max} = 2 \times T_{KN}$
 » Refer to Selection page 7 to 11
 Keyway to DIN 6885.1

*) 2 Keyways 120° offset

» Refer to mounting and maintenance instructions
 page 12 to 13

MOUNTING EXAMPLE



Self-Contained Freewheels

GFR GFRN



TYPE



Types GFR, GFRN are roller type freewheels. These units are part of the Stieber modular system. They are bearing supported, using two 160.. series bearings, and require oil lubrication. These units may be used in designs providing oil lubrication and sealing as on the example overleaf. The bearings must not be axially stressed.

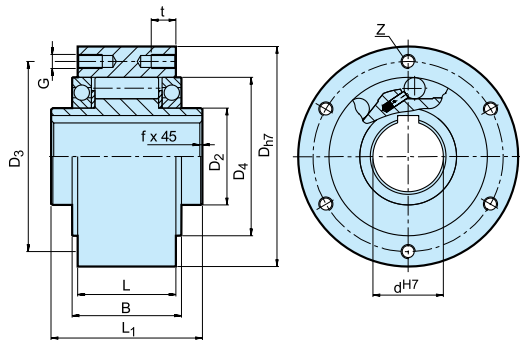
Typically, types GFR, GFRN are used with the F series covers that are designed to transmit torque, and provide oil lubrication and sealing. Usually these covers are used in pairs according to combinations shown on the following pages.

The outer race of the GFR model is plain to receive and center any component bored to H7 tolerance.

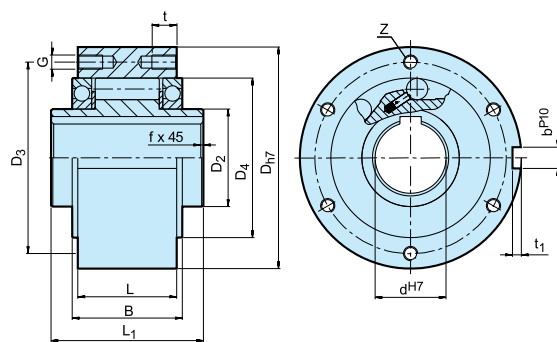
Torque is transmitted by bolts through the cover plate in this case. Types GFR, GFRN are identical except that type GFRN has a keyway on the outside diameter to transmit the torque. Two paper seals are delivered with each unit to be placed between the outer race and cover plates.

Self-Contained Freewheels

GFR, GFRN



GFR



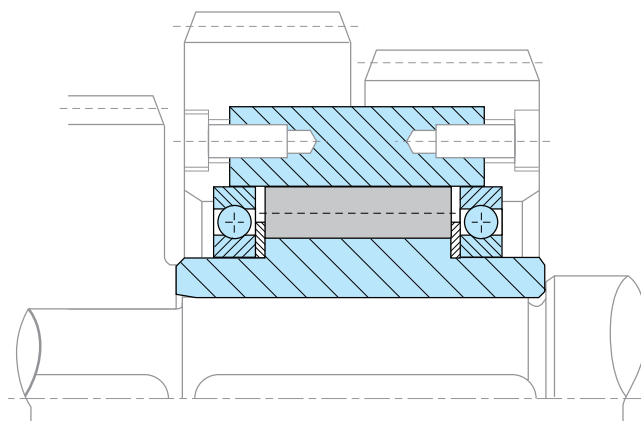
GFRN

Type	Size	Overrunning speeds										Number							Weight
	d_{H7} [mm]	$T_{KN}^{1)}$ [Nm]	$n_{imax}^{2)}$ [min ⁻¹]	$n_{amax}^{3)}$ [min ⁻¹]	D_{H7} [mm]	D_2 [mm]	D_4 [mm]	D_3 [mm]	G	t [mm]	z	L_1 [mm]	L [mm]	B [mm]	t_1 [mm]	b^{P10} [mm]	f [mm]		[kg]
GFR GFRN	12*	55	4000	7200	62	20	42	51	ø5,5	—	3	42	20	27	2,5	4	0,5	0,5	
	15	125	3600	6500	68	25	47	56	M5	8	3	52	28	32	3	5	0,8	0,8	
	20	181	2700	5600	75	30	55	64	M5	8	4	57	34	39	3,5	6	0,8	1,0	
	25	288	2100	4500	90	40	68	78	M6	10	4	60	35	40	4	8	1,0	1,5	
	30	500	1700	4100	100	45	75	87	M6	10	6	68	43	48	4	8	1,0	2,2	
	35	725	1550	3800	110	50	80	96	M6	12	6	74	45	51	5	10	1,0	3,0	
	40	1025	1150	3400	125	55	90	108	M8	14	6	86	53	59	5	12	1,5	4,6	
	45	1125	1000	3200	130	60	95	112	M8	14	8	86	53	59	5,5	14	1,5	4,7	
	50	2125	800	2800	150	70	110	132	M8	14	8	94	64	72	5,5	14	1,5	7,2	
	55	2625	750	2650	160	75	115	138	M10	16	8	104	66	72	6	16	2,0	8,6	
	60	3500	650	2450	170	80	125	150	M10	16	10	114	78	89	7	18	2,0	10,5	
	70	5750	550	2150	190	90	140	165	M10	16	10	134	95	108	7,5	20	2,5	13,5	
	80	8500	500	1900	210	105	160	185	M10	16	10	144	100	108	9	22	2,5	18,2	
	90	14500	450	1700	230	120	180	206	M12	20	10	158	115	125	9	25	3,0	28,5	
	100	20000	350	1450	270	140	210	240	M16	24	10	182	120	131	10	28	3,0	42,5	
	130	31250	250	1250	310	160	240	278	M16	24	12	212	152	168	11	32	3,0	65,0	
	150	70000	200	980	400	200	310	360	M20	32	12	246	180	194	12	36	4,0	138,0	

NOTES

- 1) $T_{max} = 2 \times T_{KN}$
» Refer to Selection page 7 to 11
- 2) Inner race overruns. Values without radial lip seals
- 3) Outer race overruns. Values without radial lip seals
Keyway to DIN 6885.1
- *) GFR12 has through holes in outer race
» Refer to mounting and maintenance instructions
page 12 to 13

MOUNTING EXAMPLE



Self-Contained Freewheels

GFR..F1F2, GFR..F2F7 GFRN..F5F6



Back of
GFR..F1F2

TYPE



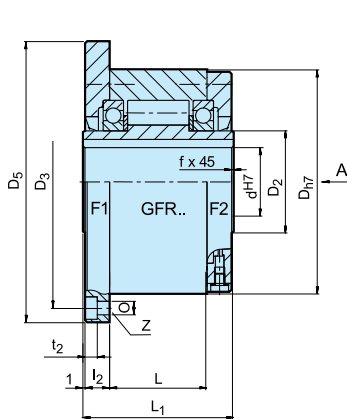
Types GFR..F1F2/F2F7 and GFRN..F5F6 are roller type freewheels, self-contained, sealed and bearing supported, using two 160.. series bearings.

They use the GFR, GFRN base modules described on previous pages. Units must be oil lubricated before use if they are delivered disassembled. Primarily used as overrunning or indexing clutches. The cover combination is chosen according to the type of drive, as shown overleaf. F2 and F6 covers are used to close the unit. They are equipped with 3 screws for oil filling, drain and level.

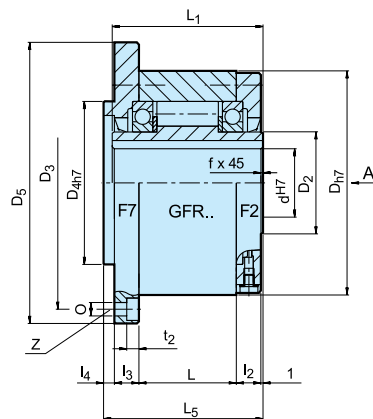
The shaft seal is a standard lip seal. Covers may be easily assembled by a qualified user, allowing direction of rotation to be selected on site. Alternatively, units can be delivered assembled and lubricated (except GFRN.. F5F6).

Self-Contained Freewheels

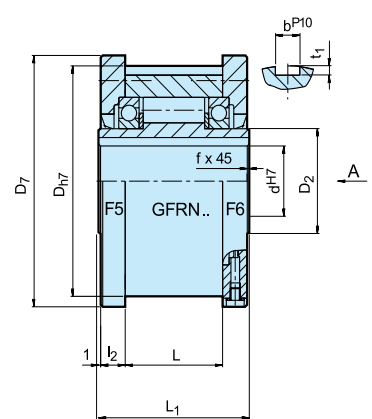
GFR..F1F2, GFR..F2F7, GFRN..F5F6



GFR...F1F2



GFR...F2F7



GFRN...F5F6

Type	Size	Overrunning speeds										Number	Keyway outer race										Weight
GFR..F1F2, GFR..F2F7, GFRN.. F5F6	d ^{H7}	T _{KN} ¹⁾	n _{imax} ²⁾	n _{amax} ³⁾	D _{H7}	D ₅	D ₇	D ₃	D _{4h7}	0	t ₂	z	L ₁	L ₅	L	I ₂	I ₃	I ₄	t ₁	b ^{P10}	f		
	[mm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	
	12	55	3100	4700	62	85	70	72	42	5,5	5,7	3	42	44	20	10	10	3	2,5	4	0,5	1,2	
	15	125	2800	4400	68	92	76	78	47	5,5	5,7	3	52	54	28	11	11	3	3	5	0,8	1,6	
	20	181	2400	4100	75	98	84	85	55	5,5	5,7	4	57	59	34	10,5	10,5	3	3,5	6	0,8	1,9	
	25	288	1600	3800	90	118	99	104	68	6,6	6,8	4	60	62	35	11,5	11,5	3	4	8	1,0	2,9	
	30	500	1300	2800	100	128	109	114	75	6,6	6,8	6	68	70	43	11,5	11,5	3	4	8	1,0	3,9	
	35	725	1200	2600	110	140	119	124	80	6,6	6,8	6	74	76	45	13,5	13	3,5	5	10	1,0	4,9	
	40	1025	850	2300	125	160	135	142	90	9	9	6	86	88	53	15,5	15	3,5	5	12	1,5	7,5	
	45	1125	740	2200	130	165	140	146	95	9	9	8	86	88	53	15,5	15	3,5	5,5	14	1,5	7,8	
	50	2125	580	1950	150	185	160	166	110	9	9	8	94	96	64	14	13	4	5,5	14	1,5	10,8	
	55	2625	550	1800	160	204	170	182	115	11	11	8	104	106	66	18	17	4	6	16	2,0	14,0	
	60	3500	530	1700	170	214	182	192	125	11	11	10	114	116	78	17	16	4	7	18	2,0	16,8	
	70	5750	500	1600	190	234	202	212	140	11	11	10	134	136	95	18,5	17,5	4	7,5	20	2,5	20,8	
	80	8500	480	1500	210	254	222	232	160	11	11	10	144	146	100	21	20	4	9	22	2,5	27,0	
	90	14500	420	1300	230	278	242	254	180	14	13	10	158	160	115	20,5	19	4,5	9	25	3,0	40,0	
	100	20000	310	1100	270	335	282	305	210	18	17,5	10	182	184	120	30	28	5	10	28	3,0	67,0	
130	31250	220	900	310	380	322	345	240	18	17,5	12	212	214	152	29	27	5	11	32	3,0	94,0		
150	70000	170	700	400	485	412	445	310	22	21,5	12	246	248	180	32	30	5	12	36	4,0	187,0		

NOTES

1) $T_{\max} = 2 \times T_{KN}$
» Refer to Selection page 7 to 11

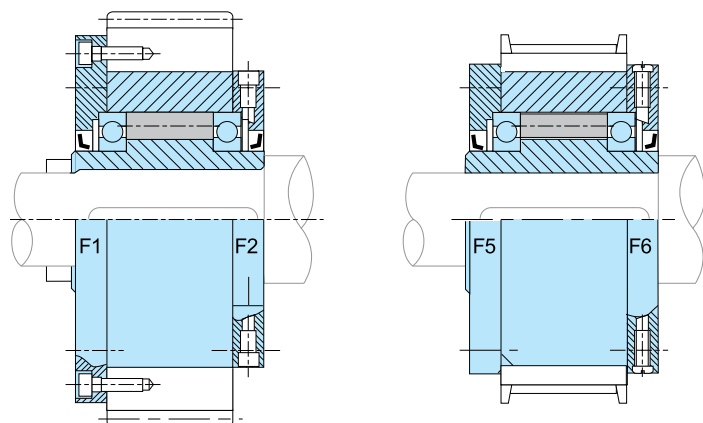
2) Inner race overruns

3) Outer race overruns
Keyway to DIN 6885.1

When ordered assembled, please specify direction of rotation seen from arrow „A“: „R“ Inner race overruns in clockwise direction „L“ Inner race overruns in counter-clockwise direction

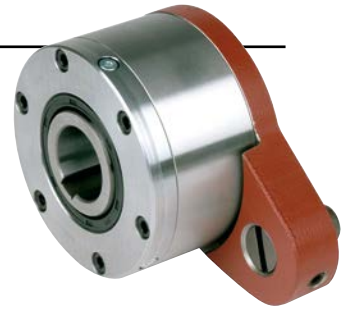
» Refer to mounting and maintenance instructions page 12 to 13

MOUNTING EXAMPLES



Self-Contained Freewheels

GFR..F2F3 GFR..F3F4



TYPE



GFR..F2F3

GFR..F3F4

Types GFR..F2F3/F3F4 are roller type freewheels, self-contained, sealed and bearing supported, using two 160.. series bearings.

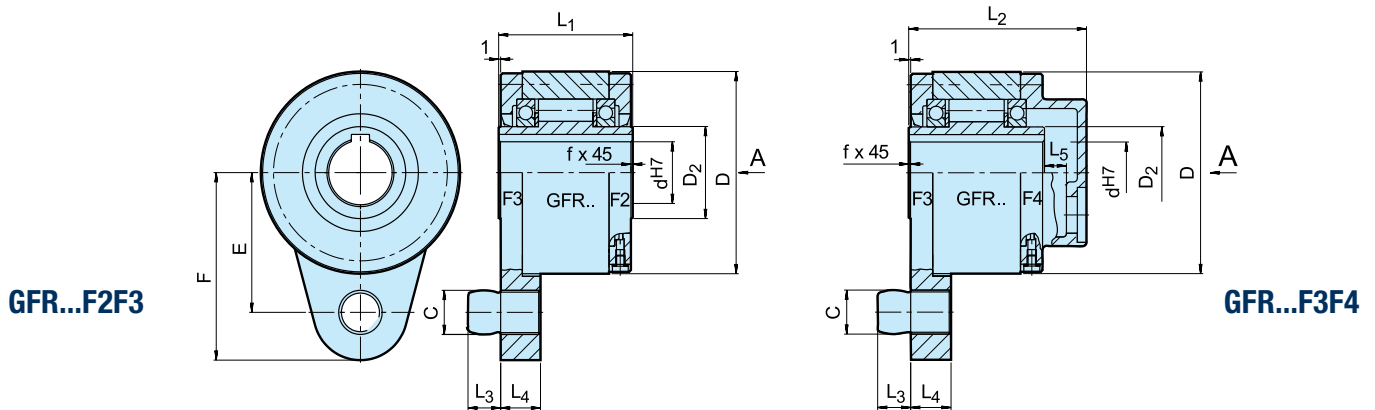
They use the GFR base module. Units must be oil lubricated before use if they are delivered disassembled and in any case for the F3F4 combination. These cover combinations are primarily used as backstops, as shown overleaf. The F3 cover acts as a torque arm and has an integrated stop bolt. The stop bolt should go into a slot in a fixed part of the machine. The stop bolt must have a radial clearance of

1–3 % of the bolt's diameter. The torque arm and bearings must not be prestressed in any way. F2 and F4 covers are used to close the unit. They are equipped with 3 screws for oil filling, drain and level.

If using cover type F4, shaft end plate and its screw must be sealed to avoid oil leakage through the keyway. Covers are easily fitted, allowing on site selection of rotation direction. If requested units can be delivered assembled and lubricated for the F2F3 combination.

Self-Contained Freewheels

GFR..F2F3, GFR..F3F4



Type	Size	Overrunning speed													Weight
	d^{H7} [mm]	$T_{KN}^{1)}$ [Nm]	$n_{max}^{2)}$ [min ⁻¹]	D [mm]	D ₂ [mm]	C [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	F [mm]	E [mm]	L ₅ [mm]	f [mm]	[kg]
GFR..F2-F3 GFR..F3-F4	12	55	3100	62	20	10	42	64	10	13	59	44	6	0,5	1,4
	15	125	2800	68	25	10	52	78	10	13	62	47	10	0,8	1,8
	20	181	2400	75	30	12	57	82	11	15	72	54	10	0,8	2,3
	25	288	1600	90	40	16	60	85	14	18	84	62	10	1,0	3,4
	30	500	1300	100	45	16	68	95	14	18	92	68	10	1,0	4,5
	35	725	1200	110	50	20	74	102	18	25	102	76	12	1,0	5,6
	40	1025	850	125	55	20	86	115	18	25	112	85	12	1,5	8,5
	45	1125	740	130	60	25	86	115	22	25	120	90	12	1,5	8,9
	50	2125	580	150	70	25	94	123	22	25	135	102	12	1,5	12,8
	55	2625	550	160	75	32	104	138	25	30	142	108	15	2,0	16,2
	60	3500	530	170	80	32	114	147	25	30	145	112	15	2,0	19,3
	70	5750	500	190	90	38	134	168	30	35	175	135	16	2,5	23,5
	80	8500	480	210	105	38	144	178	30	35	185	145	16	2,5	32
	90	14500	420	230	120	50	158	192	40	45	205	155	16	3,0	47,2
	100	20000	310	270	140	50	182	217	40	45	230	180	16	3,0	76
	130	31250	220	310	160	68	212	250	55	60	268	205	18	3,0	110
	150	70000	170	400	200	68	246	286	55	60	325	255	20	4,0	214

NOTES

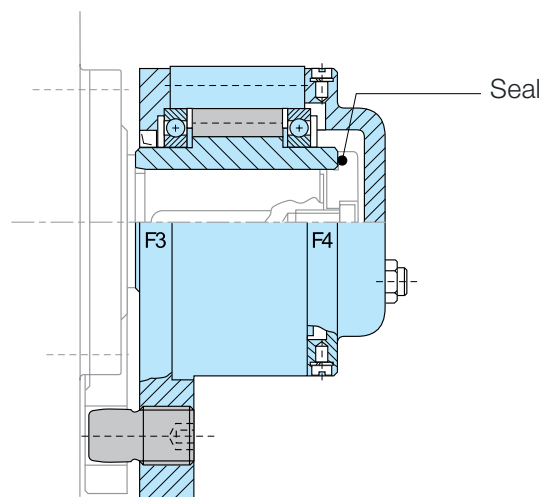
1) $T_{max} = 2 \times T_{KN}$
» Refer to Selection page 7 to 11

2) Inner race overruns
Keyway to DIN 6885.1

When ordered assembled, please specify direction of rotation seen from arrow „A“: „R“ Inner race overruns in clockwise direction, „L“ Inner race overruns in counterclockwise direction

» Refer to mounting and maintenance instructions page 12 to 13

MOUNTING EXAMPLE

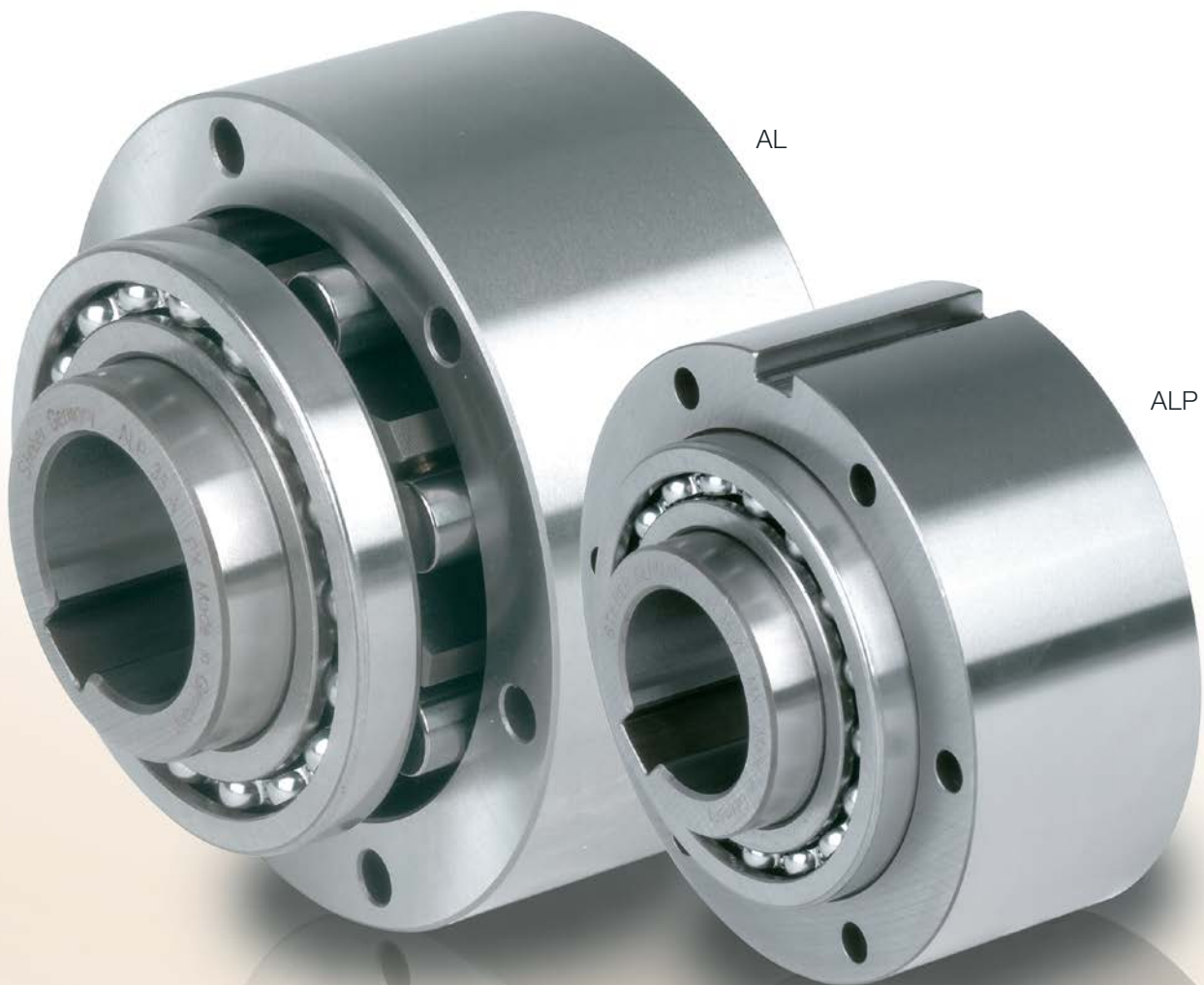


Self-Contained Freewheels

AL ALP



TYPE



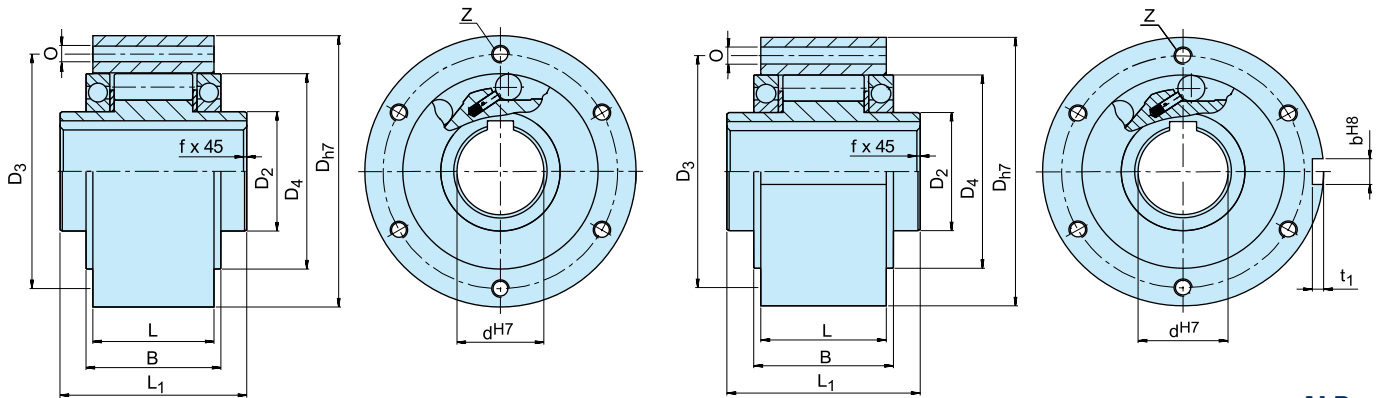
Types AL, ALP are roller type freewheels. These units are part of the Stieber modular system. They are bearing supported, using two 160.. series bearings, and require oil lubrication. These units may be used in designs providing oil lubrication and sealing as on the example overleaf.

The bearings must not be axially stressed. Typically, types AL, ALP are used with standard covers that are designed to transmit torque, and provide oil lubrication and sealing. Usually these covers are used in pairs according to combinations shown on the following pages.

The outer race of the AL model is plain to receive and center any component bored to H7 tolerance. Torque is transmitted by bolts through the cover plate in this case. Types AL, ALP are identical except that type ALP has a keyway on the outside diameter to transmit the torque. Two paper seals are delivered with each unit to be placed between the outer race and cover plates.

Self-Contained Freewheels

AL, ALP



AL

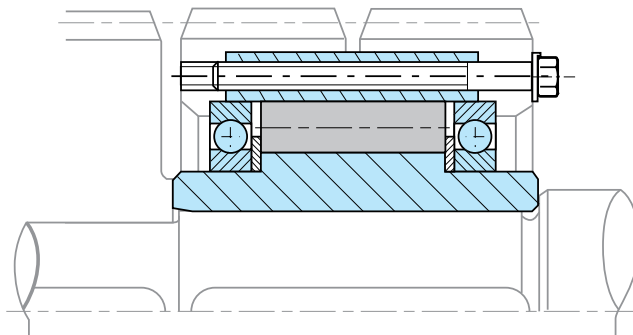
ALP

Type	Size	Overrunning speeds								Number									Weight	Drag torque
AL ALP	d ^{H7}	T _{KN} ¹⁾	n _{imax} ²⁾	n _{amax} ³⁾	D _{H7}	D ₂	D ₄	D ₃	0	z	L ₁	L ⁴⁾	B	t ₁	b ^{H8}	f		T _R		
	[mm]	[Nm]	[min ⁻¹]	[min ⁻¹]	[mm]	[mm]	[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]	[Ncm]		
	12	55	4000	7200	62	20	42	51	5,5	3	42	20,3	27	2,4	4	0,5	0,5	3,4		
	15	125	3600	6500	68	25	47	56	5,5	3	52	30,3	34,1	2,9	5	0,8	0,8	4,1		
	20	181	2700	5600	75	30	55	64	5,5	4	57	34,3	39,1	3,5	6	0,8	1,0	8		
	25	288	2100	4500	90	40	68	78	5,5	6	60	37,3	42,1	4,1	8	1,0	1,5	14		
	30	500	1700	4100	100	45	75	87	6,6	6	68	44,3	49,1	4,1	8	1,0	2,2	23		
	35	725	1550	3800	110	50	80	96	6,6	6	74	48,3	54,1	4,7	10	1,0	3,0	60		
	40	1025	1150	3400	125	55	90	108	9	6	86	56,3	62,1	4,9	12	1,5	4,6	72		
	45	1125	1000	3200	130	60	95	112	9	8	86	56,3	62,1	5,5	14	1,5	4,7	140		
	50	2125	800	2800	150	70	110	132	9	8	92	63,3	69,1	5,5	14	1,5	7,2	180		
	55	2625	750	2650	160	75	115	138	11	8	104	67	73,1	6,2	16	2,0	8,6	190		
	60	3500	650	2450	170	80	125	150	11	10	114	78	84	6,8	18	2,0	10,5	240		
	70	5750	550	2150	190	90	140	165	11	10	134	95	103	7,4	20	2,5	13,5	320		
	80	8500	500	1900	210	105	160	185	11	10	144	100	108	8,5	22	2,5	18,2	330		
	90	14500	450	1700	230	120	180	206	14	10	158	115	125	8,7	25	3,0	28,5	650		
	100	20000	350	1450	270	140	210	240	18	10	182	120	131	9,9	28	3,0	42,5	830		
	120	31250	250	1250	310	160	240	278	18	12	202	140	152	11,1	32	3,0	65,0	1080		
	150	70000	200	980	400	200	310	360	22	12	246	180	196	12,3	36	4,0	138,0	1240		
200	175000	150	750	520	260	400	460	26	18	326	240	265	15	45	5,0	315,0	3800			
250	287500	120	620	610	320	480	545	33	20	396	300	330	15	45	5,0	512,0	6100			
ALM	25	388	2100	2800	90	40	68	78	5,5	6	60	37,3	42,1	4,1	8	1,0	1,7	22		
	30	588	1700	2500	100	45	75	87	6,6	6	68	44,3	49,1	4,1	8	1,0	2,5	37		
	35	838	1550	2400	110	50	80	96	6,6	6	74	48,3	54,1	4,7	10	1,0	3,2	66		

NOTES

- 1) $T_{max} = 2 \times T_{KN}$
» Refer to Selection page 7 to 11
- 2) Inner race overruns, values without lip seals
- 3) Outer race overruns
Keyway to DIN 6885.1
- 4) The dimension L includes up to size 50 the each 0.25 mm thick paper seals to be located on both faces
» Refer to mounting and maintenance instructions page 12 to 13

MOUNTING EXAMPLE



Self-Contained Freewheels

AL..F2D2 AL..F4D2



Back of
AL..F2D2

Back of
AL..F4D2

TYPE



AL..F2D2

AL..F4D2

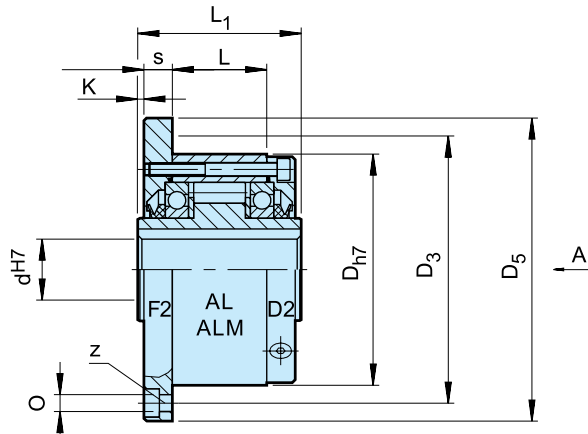
Types AL..F2D2/F4D2 are roller type freewheels, self-contained, sealed and bearing supported, using two 160.. series bearings. Units are delivered oil lubricated.

Primarily used as overrunning or indexing clutches, the cover combination is chosen according to the type of drive, as shown overleaf. D2 cover is used to close the unit.

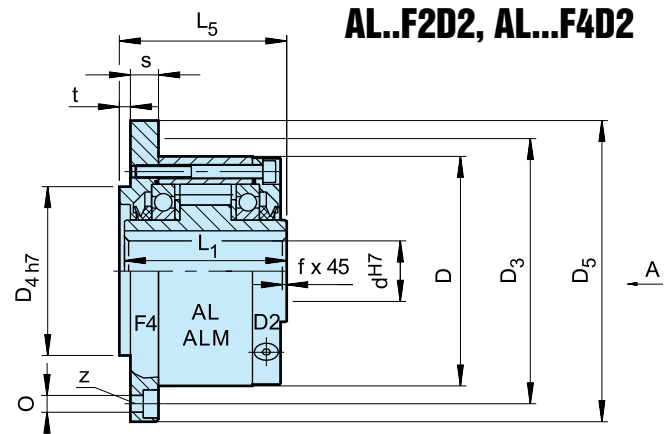
It is equipped with two screws for oil filling, drain and level. The shaft seal is a V-ring type. Cover and seal have been designed to be oil proof with minimum drag torque.

We recommend the unit is supplied assembled. Please specify inner race direction of rotation seen from the D2 flange.

Self-Contained Freewheels



AL..F2D2



AL..F4D2

Type	Size	Overrunning speeds				Number										Weight	Drag torque	
AL..F2D2 AL..F4D2	d_{H7} [mm]	$T_{KN}^{1)}$ [Nm]	$n_{imax}^{2)}$ [min ⁻¹]	$n_{amax}^{3)}$ [min ⁻¹]	D_{h7} [mm]	L_1 [mm]	D_5 [mm]	D_3 [mm]	z	0 [mm]	D_{4h7} [mm]	t [mm]	L_5 [mm]	K [mm]	s [mm]	f [mm]	[kg]	T_R [Ncm]
	12	55	2500	7200	62	42	85	72	3	5,5	42	3	44	0,5	10,3	0,5	0,9	11
	15	125	1900	6500	68	52	92	78	3	5,5	47	3	54	0,5	10,3	0,8	1,3	15
	20	181	1600	5600	75	57	98	85	4	5,5	55	3	59	0,5	10,8	0,8	1,7	18
	25	288	1400	4500	90	60	118	104	4	6,6	68	3	62	0,5	10,5	1	2,6	36
	30	500	1300	4100	100	68	128	114	6	6,6	75	3	70	0,5	11,3	1	3,5	48
	35	725	1100	3800	110	74	138	124	6	6,6	80	3,5	76	1	11,8	1	4,5	60
	40	1025	950	3400	125	86	160	142	6	9	90	3,5	88	1	13,8	1,5	6,9	84
	45	1125	900	3200	130	86	165	146	8	9	95	3,5	88	1	13,8	1,5	7,1	94
	50	2125	850	2800	150	92	185	166	8	9	110	4	94	1	12,8	1,5	10,1	128
	55	2625	720	2650	160	104	204	182	8	11	115	4	106	1,5	16,8	2	13,1	150
	60	3500	680	2450	170	114	214	192	10	11	125	4	116	1,5	16,3	2	15,6	160
	70	5750	580	2150	190	134	234	212	10	11	140	4	136	1,5	17,8	2,5	20,4	360
	80	8500	480	1900	210	144	254	232	10	11	160	4	146,3	1,5	20,3	2,5	26,7	360
	90	14500	380	1700	230	158	278	254	10	14	180	4,5	161	1,5	20	3	39	680
	100	20000	350	1450	270	182	335	305	10	18	210	5	184	2,5	28	3	66	880
	120	31250	250	1250	310	202	375	345	12	18	240	5	204	2,5	28,5	3	91	1200
	150	70000	180	980	400	246	485	445	12	22	310	5	249	2,5	31	4	186	1350
	200	175000	120	750	520	326	625	565	18	26	400	5	328	3	40	5	425	4200
250	287500	100	620	610	396	740	680	20	33	480	5	398	3	45	5	680	6500	
ALM..F2D2 ALM..F4D2	25	388	1100	2800	90	60	118	104	4	6,6	68	3	62	0,5	10,5	1	2,7	41
	30	588	1000	2500	100	68	128	114	6	6,6	75	3	70	0,5	11,3	1	3,65	64
	35	838	900	2400	110	74	138	124	6	6,6	80	3,5	76	1	11,8	1	4,7	76

NOTES

1) $T_{max} = 2 \times T_{KN}$
» Refer to Selection page 7 to 11

2) Inner race overruns

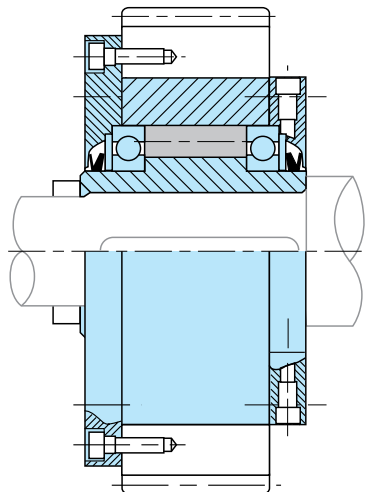
3) Outer race overruns
Keyway to DIN 6885.1

When ordering, please specify direction of rotation seen from arrow

A": „R" Inner race overruns in clockwise direction, „L" Inner race overruns in counterclockwise

» Refer to mounting and maintenance instructions page 12 to 13

MOUNTING EXAMPLE



Self-Contained Freewheels

ALP..F7D7 ALMP..F7D7



TYPE



Type ALP..F7D7 is a roller type freewheel, self-contained, sealed and bearing supported using two 160.. series bearings. Unit is not delivered oil lubricated.

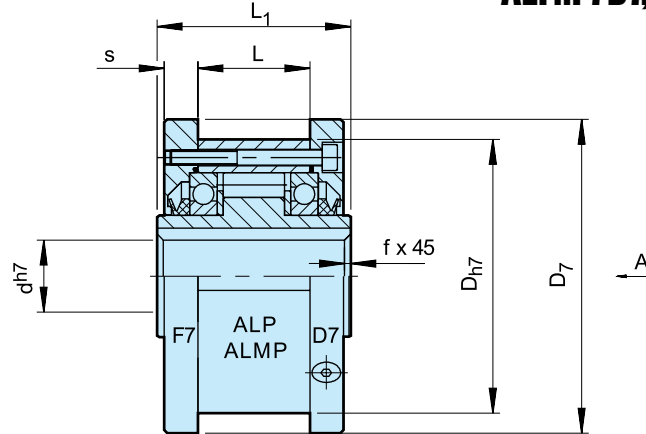
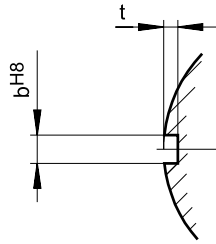
This cover combination is mostly used as an overrunning or indexing clutch as shown overleaf.

A keyway is machined on the outer race for the connection to the drive or driven member centered on its outside. D7 cover is used to close the unit. It is equipped with two screws for oil filling, drain and level. The shaft seal is a V-ring type. Cover and seal have been designed to be oil proof with minimum drag torque.

Self-Contained Freewheels

ALP..F7D7, ALMP..F7D7

ALP..F7D7



Type	Size	Overrunning speeds ²⁾											Weight	Drag torque
	d_{H7} [mm]	$T_{KN}^{1)}$ [Nm]	$n_{imax}^{2)}$ [min ⁻¹]	$n_{amax}^{3)}$ [min ⁻¹]	D_{H7} [mm]	L_1 [mm]	D_7 [mm]	s [mm]	L [mm]	b_{H8} [mm]	t [mm]	f [mm]	[kg]	T_R [Ncm]
ALP..F7D7	12	55	2500	7200	62	42	70	10,4	20	4	2,4	0,5	1,0	11
	15	125	1900	6500	68	52	76	11,4	28	5	2,9	0,8	1,4	15
	20	181	1600	5600	75	57	84	10,9	34	6	3,5	0,8	1,9	18
	25	288	1400	4500	90	60	99	11,9	35	8	4,1	1	2,8	36
	30	500	1300	4100	100	68	109	11,9	43	8	4,1	1	3,7	45
	35	725	1100	3800	110	74	119	13,4	45	10	4,7	1	4,7	60
	40	1025	950	3400	125	86	135	15,4	53	12	4,9	1,5	7,1	84
	45	1125	900	3200	130	86	140	15,4	53	14	5,5	1,5	7,4	94
	50	2125	850	2800	150	92	160	12,9	64	14	5,5	1,5	10,4	128
	55	2625	720	2650	160	104	170	17,5	66	16	6,2	2	13,4	150
	60	3500	680	2450	170	114	182	16,5	78	18	6,8	2	15,9	160
	70	5750	580	2150	190	134	202	18	95	20	7,4	2,5	20,8	360
	80	8500	480	1900	210	144	222	20,5	100	22	8,5	2,5	27,1	360
	90	14500	380	1700	230	158	242	20	115	25	8,7	3	39,4	680
	100	20000	350	1450	270	182	282	28,5	120	28	9,9	3	66,4	880
	120	31250	250	1250	310	202	322	22,5	152	32	11,1	3	91,5	1200
	150	70000	180	980	400	246	412	31	180	36	12,3	4	187	1350
	200	175000	120	750	520	326	540	40	240	45	15	5	430	4200
	250	287500	100	620	610	396	630	45	300	45	15	5	688	6500
ALMP F7D7	25	388	1100	2800	90	60	99	11,9	35	8	4,1	1	2,9	41
	30	588	1000	2500	100	68	109	11,9	43	8	4,1	1	3,85	64
	35	838	900	2400	110	74	119	13,4	45	10	4,7	1	4,9	76

NOTES

1) $T_{max} = 2 \times T_{KN}$
» Refer to Selection page 7 to 11

2) Inner race overruns

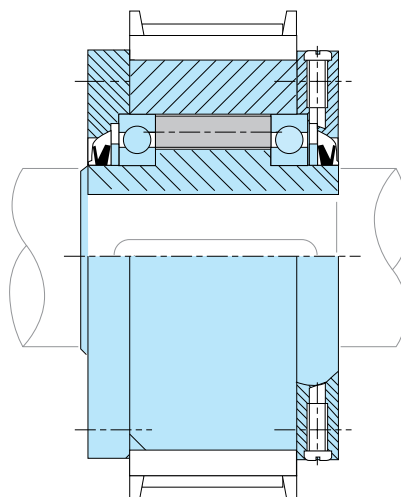
3) Outer race overruns

Keyway to DIN 6885.1

When ordering, please specify direction of rotation seen from arrow „A“: „R“ Inner race overruns in clockwise direction, „L“ Inner race overruns in counterclockwise direction

» Refer to mounting and maintenance instructions page 12 to 13

MOUNTING EXAMPLE



Self-Contained Freewheels

AL..KEED2



Back of
AL..KEED2

TYPE

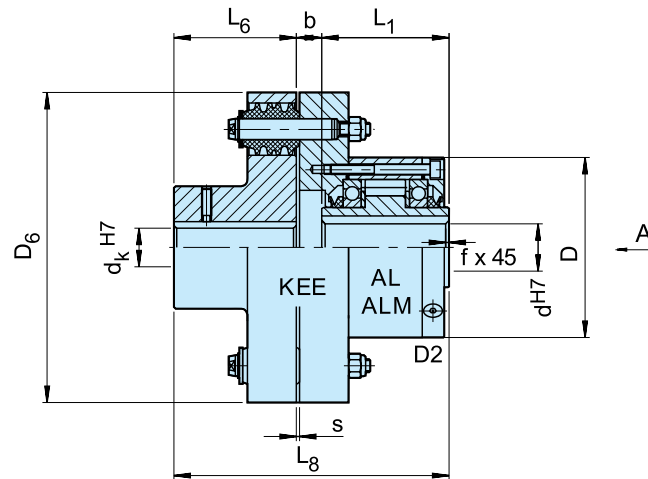


Type AL..KEED2 is a roller type freewheel, self-contained, sealed and bearing supported, using two 160.. series bearings. Unit is delivered oil lubricated.

This combination is used as overrunning clutch as shown overleaf. In this design, a standard AL freewheel is connected to a flexible coupling for in-line mounting.

The KEE type is a high performance coupling used to damp torsional vibrations and to accept misalignment without excess bearing loads. D2 cover is used to close the unit. It is equipped with two screws for oil filling, drain and level. We recommend the unit is supplied assembled. Please specify inner race direction of rotation seen from the D2 flange. Refer to manufacturer's catalogue to check coupling selection.

AL..KEED2



Type	Size			Overrunning speeds											Weight
	d_k^{H7} [mm]	KEE	T_{KN} [Nm]	$n_{imax}^{1)}$ [min ⁻¹]	$n_{amax}^{2)}$ [min ⁻¹]	d_k^{H7} [mm]	D [mm]	L ₁ [mm]	D ₆ [mm]	L ₆ [mm]	L ₈ [mm]	b [mm]	s [mm]	f [mm]	[kg]
AL..KEED2	12	2	55	2500	6000	12...25	62	42	97	35	90	13	3	0,5	3
	15	3	122	1900	6000	16...30	68	52	112	40	110	18	3	0,8	4,4
	20	3	122	1600	5600	16...30	75	57	112	40	114,5	17,5	3	0,8	4,6
	25	4	288	1400	4500	20...40	90	60	130	50	127,5	17,5	3	1	6,4
	30	5	500	1300	4100	20...50	100	68	160	60	148	20	2	1	11
	35	6	725	1100	3800	25...65	110	74	190	75	168	19	2	1	17
	40	6	1025	950	3400	25...65	125	86	190	75	178	17	2	1,5	19
	45	6	1050	900	3200	25...65	130	86	190	75	178	17	2	1,5	19
	50	7	1750	850	2800	30...75	150	92	225	90	207	25	2,5	1,5	31
	55	8	2625	720	2650	35...90	160	104	270	100	233,5	29,5	3	2	47
	60	8	2750	680	2450	35...90	170	114	270	100	244	30	3	2	49
	70	10	5750	580	2150	45...110	190	134	340	140	312,5	38,5	3	2,5	90
	80	11	8500	480	1900	55...125	210	144	380	160	340	36	3	2,5	107
	90	12	13750	380	1700	65...140	230	158	440	180	388	50	3,5	3	170
	100	14	20000	350	1450	75...160	270	182	500	200	422,5	40,5	3,5	3	230
	120	16	30000	250	1250	85...180	310	202	560	220	471	49	4	3	330
	150	18	43750	180	980	95...200	400	246	640	250	543	47	4	4	500
	200	22	97500	120	750	125...250	520	326	880	320	700,5	54,5	4,5	5	965
	250	28	250000	100	620	160...320	610	396	1160	400	868	72	5	5	1725
ALM..KEED2	25	4	288	1100	2800	20...40	90	60	130	50	127,5	17,5	3	1	6,4
	30	5	588	1000	2500	20...50	100	68	160	60	148	20	2	1	11
	35	6	838	900	2400	25...65	110	74	190	75	168	19	2	1	17

NOTES

1) Inner race overrunt

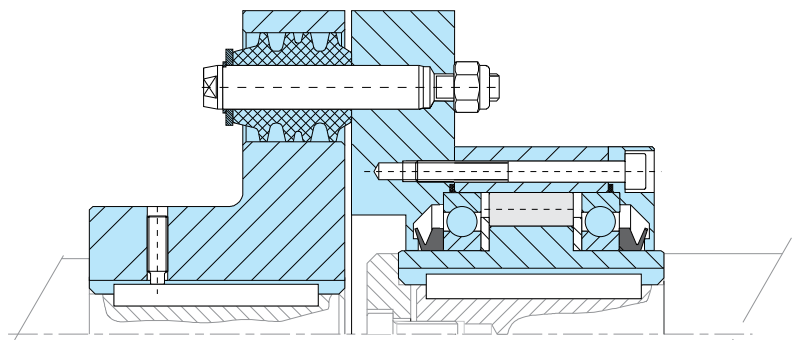
2) Outer race overruns

Keyway to DIN 6885.1

When ordering, please specify bore ϕd_k and direction of rotation seen from arrow „A“: „R“ Inner race overruns in clockwise direction, „L“ Inner race overruns in counterclockwise direction

» Refer to mounting and maintenance instructions page 12 to 13

MOUNTING EXAMPLE



SMZ



TYPE



Type SMZ is a sealed, sprag type freewheel, bearing supported using two 60..ZZ series grease lubricated bearings.

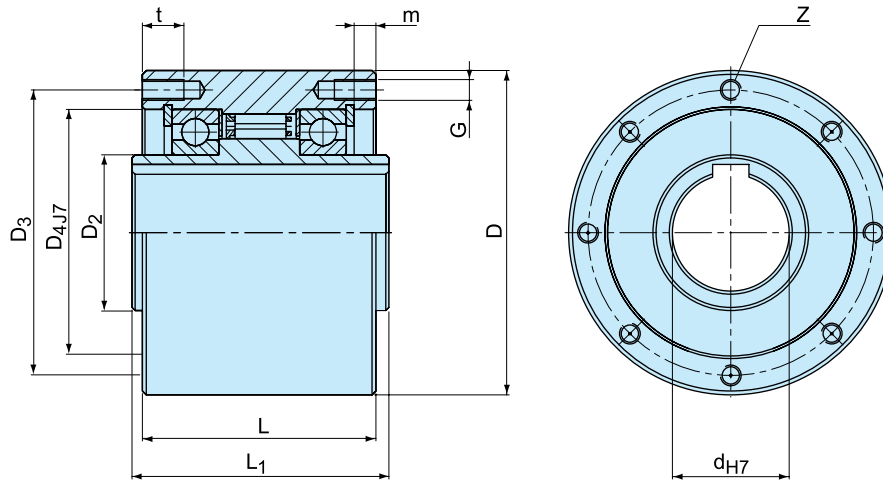
Units are delivered grease lubricated ready for installation. SMZ units are intended as multipurpose, to be used in various applications. A typical mounting arrangement is shown on the following page. The inner race is keyed to the shaft.

The inside diameter of the outer race (dimension D4) should be used as the mounting register for the connected parts (sprocket, pulley, gear, torque arm). The mounting spigot should be to g6 tolerance.

Self-Contained Freewheels

SMZ

SMZ



Type	Size	Overrunning speeds										Number			Weight
	d_{H7} [mm]	$T_{KN}^{1)}$ [Nm]	$n_{imax}^{2)}$ [min ⁻¹]	$n_{amax}^{3)}$ [min ⁻¹]	D [mm]	D ₂ [mm]	D ₃ [mm]	D ₄ ^{J7} [mm]	L [mm]	L ₁ [mm]	G [mm]	z [mm]	t [mm]	m [mm]	[kg]
SMZ	20	300	1600	700	80	30	68	55	65	67	M6	6	12	7,6	2
	30	1035	1500	500	100	45	88	75	80	82	M8	6	16	8,9	3,7
	35	1100	1400	300	110	50	95	80	85	87	M8	6	16	8,7	4,8
	45	1750	1300	300	125	60	110	95	90	92	M8	8	16	8,4	6,2
	60	3400	1100	250	155	80	140	125	100	102	M8	8	16	9,1	10,2
	70	4300	1000	250	175	95	162	140	103	105	M8	8	16	8,6	13,2

NOTES

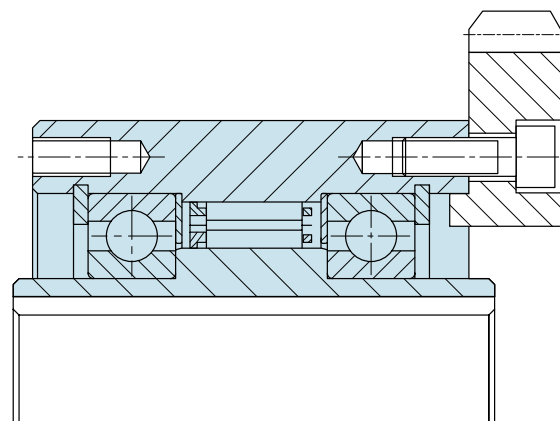
1) $T_{max} = 2 \times T_{KN}$
» Refer to Selection page 7 to 11

2) Inner race overruns

3) Outer race overruns
Keyway to DIN 6885.1

» Refer to mounting and maintenance instructions
page 12 to 13

MOUNTING EXAMPLE



Self-Contained Freewheels

FSO 300-700, FSO-GR 300-700, HPI 300-700



TYPE



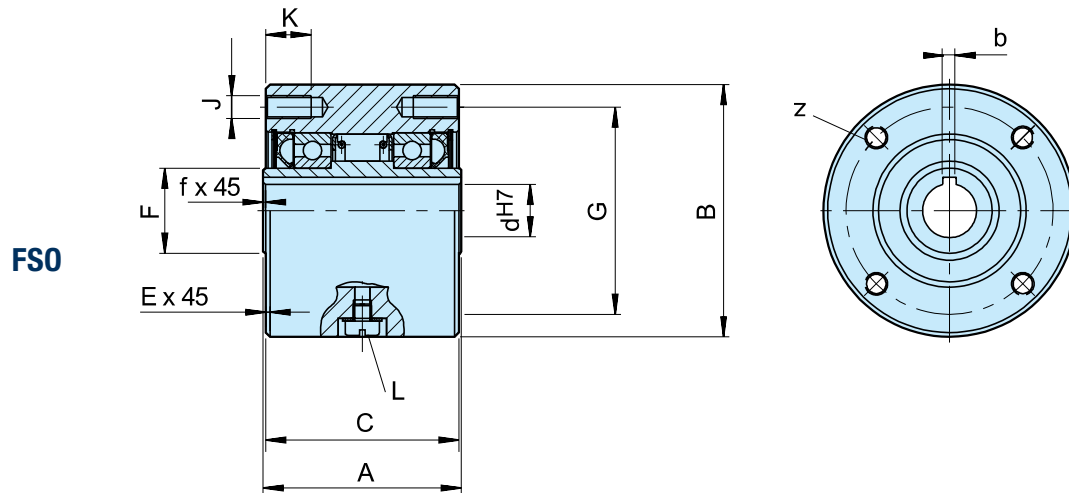
FSO..GR

Types FSO, FSO-GR, and HPI 300 to 700 are sprag type freewheels self-contained, sealed and bearing supported. Units are delivered oil or grease lubricated according to the type. It is a Formsprag USA design with a »full sprag complement« that gives a very high torque for a given diameter. Any overload is resisted by a sprag to sprag abutment, avoiding a sprag tilt over.

Types FSO and HPI are oil lubricated and use standard shaft lip seals. Type FSO-GR is grease lubricated and can be equipped with contact free labyrinth seals. Type HPI is specially designed for high speed indexing applications.

Self-Contained Freewheels

FSO, FSO-GR, HPI 300-700



Type	Size		Overrunning speeds														Number				Lubricant			Weight	Drag torque
FSO FSO-GR HPI			FSO / FSO-GR / HPI Lip Seal	FSO-GR Labyrinth Seal	d ^{H7} -bxh	d ⁴⁾	A	B	C	E	F	G	z	J	K	L	f	FSO	FSO..GR	HPI		T _R			
		T _{KN} ¹⁾ [Nm]	n _{max} ²⁾ [min ⁻¹]	n _{max} ³⁾ [min ⁻¹]		min-max		-0,05																	
	300	374	3000/900	3600/900	15-5x5	12... 19	63,50	76,20	60,45	1,6	28,58	66,67	4	M8	13	M6	0,8	7	10	14	1,6	18			
	400	408	2800/850	3600/850	18-6x6	12... 22	69,85	88,90	68,07	1,6	30	73	4	M8	13	M6	0,8	10	20	20	2,7	27			
	500	1598	2500/800	3000/800	30-8x7	19... 33	88,90	107,95	85,73	1,6	45	92	4	M8	16	M6	1,5	22	35	35	4,8	31			
	600	3060	2200/750	2400/750	40-12x8	24... 57	95,25	136,525	92,2	1,6	65	120,6	6	M8	16	M6	1,6	52	84	84	8,6	62			
					45-14x9																				
					50-14x6																				
					50-14x9																				
	700	6800	1600/450	2000/450	60-18x11	48... 82	127,00	180,975	123,85	1,6	90	158,75	8*	M10*	20	M6	1,6	168	280	280	19	156			
				65-18x11																					
				70-20x12						101,6 ⁵⁾															

NOTES

1) $T_{max} = 1.5 \times T_{KN}$
» Refer to Selection page 7 to 11

2) Inner race/outer race

3) Inner race/outer race

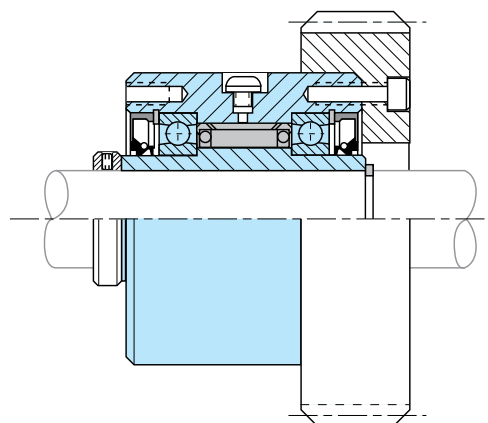
4) Inch bore available on request

5) Only for oversize bore
Size 600 > 50 mm
Size 700 > 75 mm

*) 6 holes equally spaced at 60° plus
2 extra-holes at 180°

» Refer to mounting and maintenance instructions
page 12 to 13

MOUNTING EXAMPLE



Self-Contained Freewheels

FS 750-1027, FSO 750-1027, HPI 750-1027



TYPE



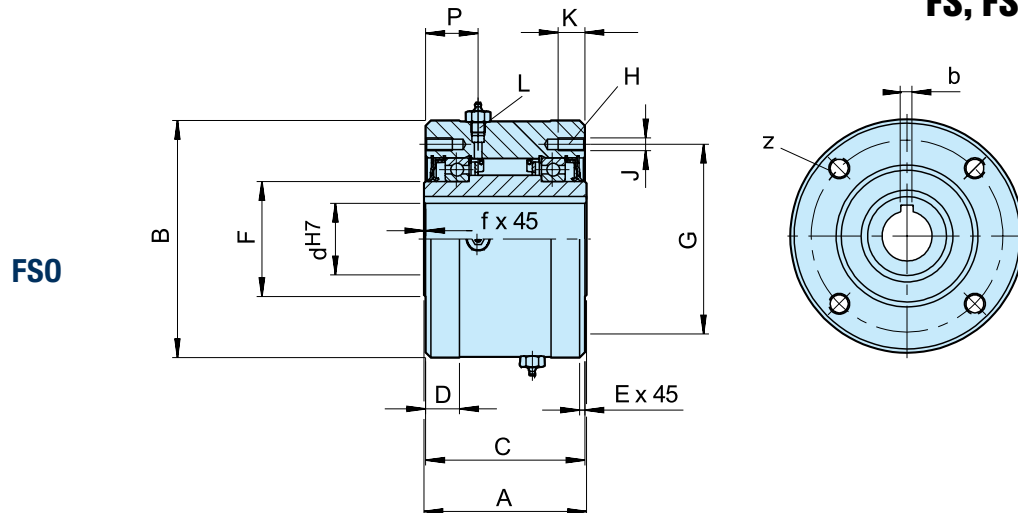
FSO

Types FS, FSO, and HPI 750 to 1027 are sprag type freewheels self-contained, sealed and bearing supported. Units are delivered oil or grease lubricated according to the type. It is a Formsprag USA design that uses sprags specially designed to compensate for any eccentricity due to bearing wear. Types FS and HPI are oil lubricated and use standard shaft lip seals. Type FSO is grease lubricated and equipped with special grease seals, labyrinth seals can also be selected on request.

Type HPI is specially designed for high speed indexing applications. Each of the different models show a range of standard metric bore diameters. We can supply any bore size between the minimum and maximum specified in the table, including imperial sizes.

Self-Contained Freewheels

FS, FSO, HPI 750-1027

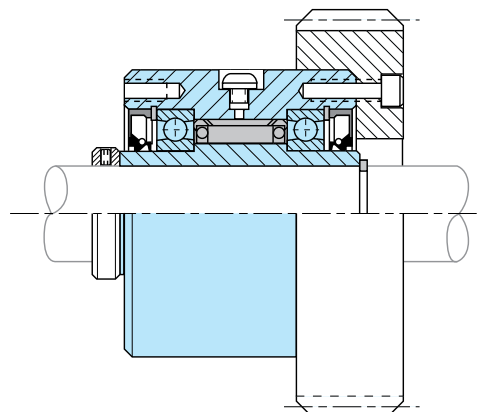


Type	Size		Overrunning speeds												Number						Lubricant						Weight	Drag torque
FSO FS HPI			FS / FSO** / HPI Lip Seal	FSO Labyrinth Seal	d ^{H7} -bxh	d ⁴⁾	A	B ⁵⁾	C	D	E	F	G	z	J	K	L	P	f	FSO	HPI	FS		T _R				
		T _{KN} ¹⁾ [Nm]	n _{max} ²⁾ [min ⁻¹]	n _{max} ³⁾ [min ⁻¹]	[mm]	min-max [mm]	[mm]	-0,05 [mm]	[mm]	[mm]	[mm]	[mm]	[mm]				[mm]	[inch]	[mm]	[mm]	[ml]	[ml]	[ml]	[kg]	[Ncm]			
	750	9520	1000/650	1800/650	65-18x11	57-87	152,4	222,25	149,2	31,7	1,6	107,74	177,8	8*	M12*	25	1/2-20	49,2	1,6	222	384	207	38	5,08				
					70-20x12																							
					75-20x12																							
					80-22x14																							
					85-22x14																							
	800	17680	850/525	1500/525	80-22x14	66-112	152,4	254,00	149,2	31,7	1,6	139,70	227,0	8	M12	25	1/2-20	49,2	1,6	222	444	251	46	7,12				
					90-25x14																							
					100-28x16																							
					110-28x16																							
	900	24480	700/500	1350/500	100-28x16	92-138	161,9	304,80	158,7	34,9	1,6	161,92	247,65	10	M16	32	1/2-20	54	1,6	532	473	340	71	8,47				
					110-28x16																							
					120-32x18																							
					130-32x18																							
	1027	36720	500/375	700/375	130-32x18	125-177	168	381,00	165,1	34,9	3,2	228,60	298,45	12	M16	32	1/2-20	54	3,2	651	946	473	113	13,56				
				150-36x20																								
				175-45x25																								

NOTES

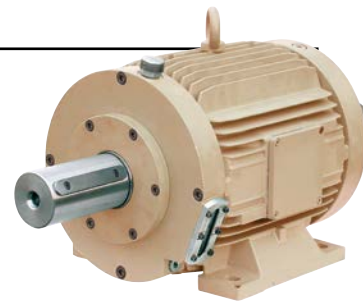
- 1) $T_{\max} = 1.5 \times T_{KN}$
» Refer to Selection page 7 to 11
- 2) Inner race/outer race
- 3) Inner race/outer race
- 4) Inch bore available on request
- *) 6 holes equally spaced at 60° plus
2 extra-holes at 180°
- 5) Tolerance for sizes 900 and 1027: -0,08
- **) FSO 750 are always supplied with labyrinth seal

MOUNTING EXAMPLE

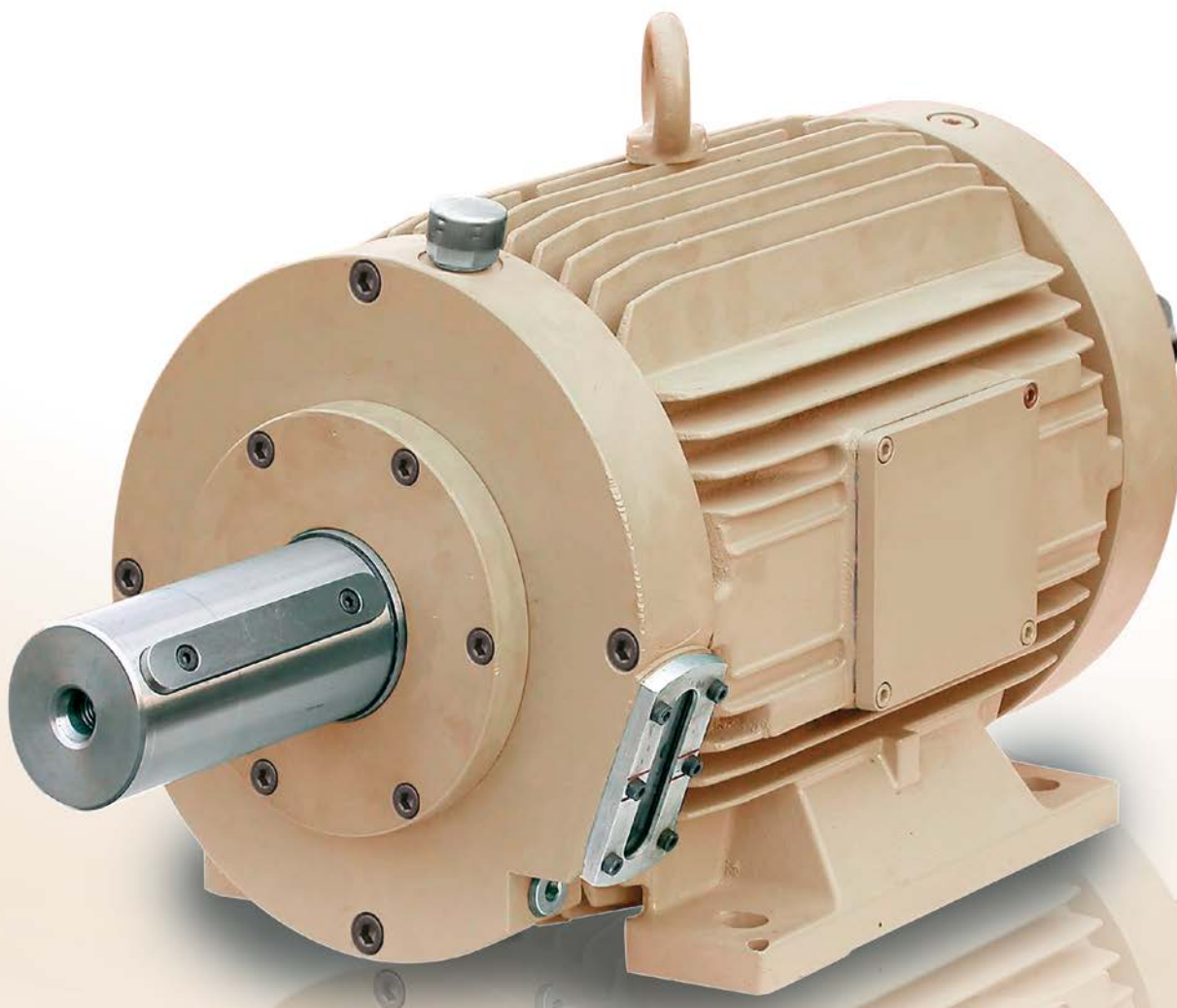


Self-Contained Freewheels

AL..G



TYPE



Type AL..G is a roller type freewheel bearing supported and self-contained in a cast iron housing. Standard lubrication is oil.

This type is designed for dual or standby drives on large equipment requiring high power at high speeds such as, industrial fans, pumps, and turbines. The housing provides a cooling surface, a large oil volume and maximum safety for equipment running continuously without supervision.

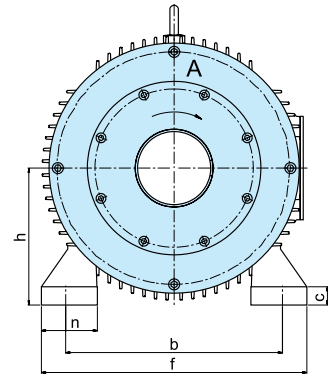
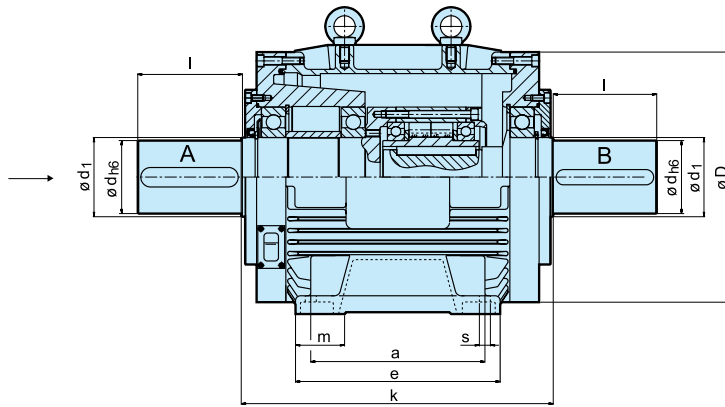
Units of this type must be connected with the driver and driven machine using flexible couplings.

Integrated forced lubrication allows hydrodynamic contact free operation during overrunning. The given overrunning speeds are valid for a maximum ambient temperature of 40°C. On request additional air cooling can be provided.

Self-Contained Freewheels

AL..G

AL..G



Type	Size	Overrunning Speed shaft A																Weight
		$T_{KN}^{1)}$ [Nm]	n_{max} [min ⁻¹]	d_{h6} [mm]	l [mm]	k [mm]	D [mm]	d_1 [mm]	h [mm]	m [mm]	n [mm]	f [mm]	e [mm]	a [mm]	b [mm]	s [mm]	c [mm]	[kg]
AL..G	30-G1	500	5500	30	80	300	194	45	100	33,5	42	200	175	140	160	14	14	50
	50-G3	2125	3400	50	140	430	310	80	160	58	71,5	318	260	210	254	18	22	115
	60-G3	3500	2900	60	140	430	310	80	160	58	71,5	318	260	210	254	18	22	125
	70-G3	5750	2600	70	140	430	310	80	160	58	71,5	318	260	210	254	18	22	138
	80-G4	8500	2400	80	170	510	434	95	225	80,5	92	436	346	286	356	22	30	284
	90-G4	14500	2000	90	170	510	434	130	225	80,5	92	436	346	286	356	22	30	300
	100-G4	20000	1500	100	210	510	434	130	225	80,5	92	436	346	286	356	22	30	330
	120-G5	31250	1300	120	210	800	610	140	315	100	131	620	550	457	508	30	46	980
	150-G5	70000	1200	150	250	800	610	190	315	100	131	620	550	457	508	30	46	1100

NOTES

- 1) $T_{max} = 2 \times T_{KN}$
 » Refer to Selection page 7 to 13

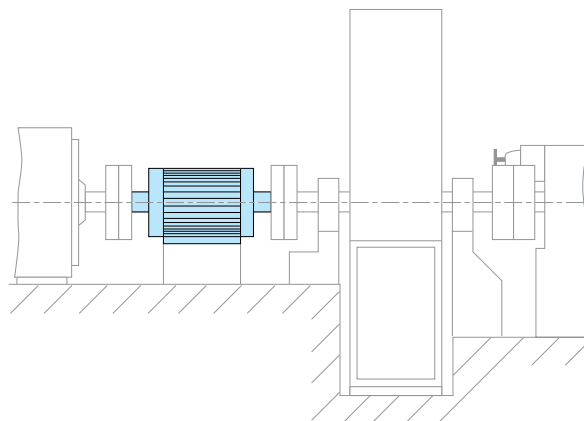
Keyway to DIN 6885.1

rotation seen from shaft „A“: „R“ Shaft „A“ overruns in clockwise direction, „L“ Shaft „A“ overruns in counterclockwise direction

Note: The constant overrunning function must be performed by the driven shaft „A“

» Refer to mounting and maintenance instructions page 12 to 13

MOUNTING EXAMPLE



CEUS



TYPE

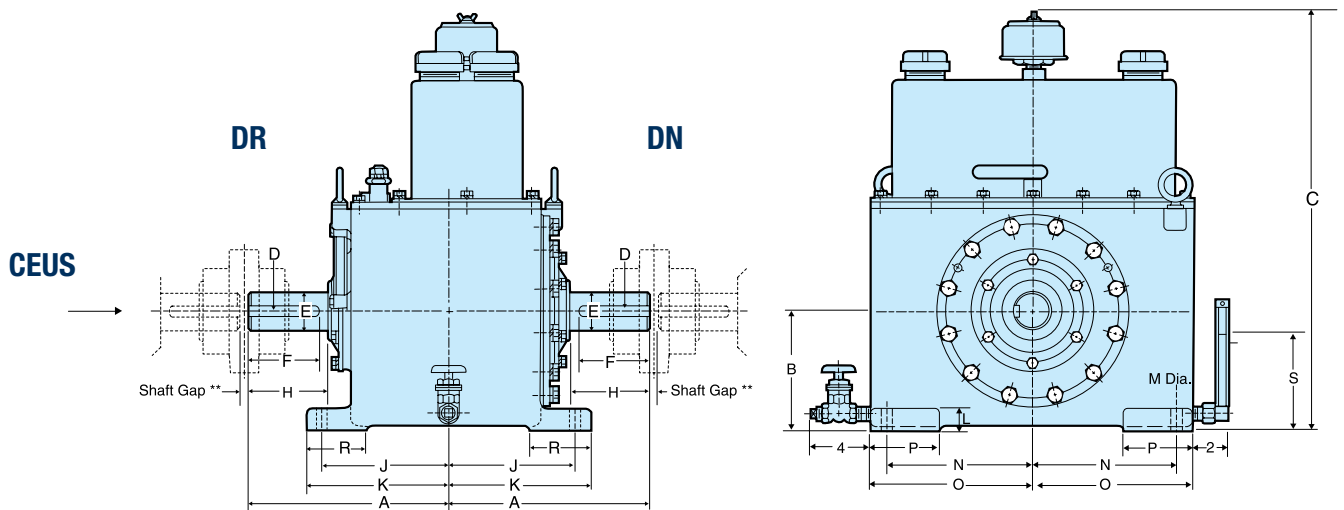


Type CEUS from the CECON product group is a roller type one way clutch bearing supported and self-contained in a cast iron housing. Standard lubrication is oil.

This type is designed for dual or standby drives on large equipment requiring high power at high speeds such as industrial fans, pumps, and turbines.

The housing provides a cooling surface, a large oil volume and maximum safety for equipment running continuously without supervision.

Units of this type must be connected with the driver and driven machine using flexible couplings. Integrated forced lubrication allows hydrodynamic contact free operation during overrunning. The oil is continuously filtered through internal strainers. Detailed catalogue over the full CECON range on request. The given overrunning speeds are valid for a maximum ambient temperature of 40°C.



Type	Size		Overrunning Speed shaft DN																		Weight
		T _{KN} ¹⁾ [Nm]	n _{max} [min ⁻¹]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	H [mm]	J [mm]	K [mm]	L [mm]	M [mm]	N [mm]	O [mm]	P [mm]	R [mm]	S [mm]		
CEUS	5C	680	6000	215,90	120,65	546,1	9,40 x 4,83	39,69	76,20	81,03	139,70	161,80	31,75	17,53	171,45	193,55	79,25	79,25	95,25	100	
	1M	1355	5600	249,17	146,05	596,9	9,40 x 4,83	44,45	95,25	98,30	161,80	184,15	31,75	17,53	161,80	206,25	88,90	88,90	117,35	146	
	2M	2710	4200	295,15	174,50	647,7	15,75 x 7,87	58,74	114,30	117,35	187,20	209,55	31,75	17,53	212,60	238,00	101,60	88,90	139,70	200	
	4M	5425	3600	325,37	196,85	698,5	15,75 x 7,87	69,85	133,35	136,40	196,85	222,25	31,75	17,53	228,60	254,00	101,60	101,60	155,45	255	
	8M	10845	3000	374,65	218,95	742,95	22,10 x 11,18	84,14	152,40	155,45	231,65	260,35	38,10	20,57	222,25	273,05	101,60	101,60	171,45	354	
	12M	16270	2500	433,32	244,35	793,75	25,40 x 12,70	98,48	171,45	176,28	273,05	301,50	38,10	26,92	231,65	288,80	114,30	114,30	190,50	545	
	18M	24405	2300	481,08	285,75	857,25	25,40 x 12,70	109,54	190,50	195,33	295,15	326,90	44,45	33,27	260,35	330,20	127,00	127,00	225,30	726	
	30M	40675	2000	533,40	323,85	952,5	31,75 x 15,75	128,59	215,90	218,95	333,25	374,65	44,45	33,27	323,85	393,70	139,70	139,70	254,00	908	
	42M	56945	1700	580,90	368,30	1028,7	38,10 x 19,05	149,23	228,60	231,65	365,00	403,10	50,80	33,27	368,30	444,50	152,40	152,40	285,75	1134	
	60M	81350	1400	628,65	406,40	1104,9	44,45 x 22,10	177,80	266,70	269,75	387,35	425,45	50,80	33,27	406,40	482,60	152,40	152,40	311,15	1361	

NOTES

1) Torque selection procedure. Nominal torque of the application:

$$T_{appl}(Nm) = \frac{9550 \times P (kW)}{n (min^{-1})}$$

The CECON unit catalogue torque will be:

$$T_{KN} \geq T_{appl} \times 1,5$$

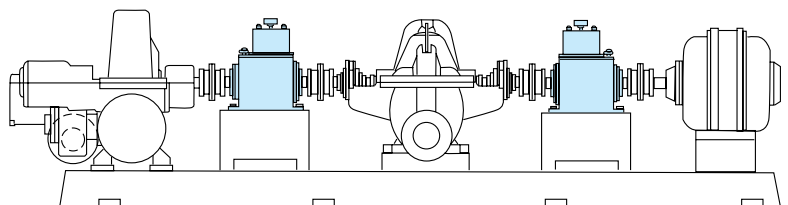
The dimensions are metric conversion of imperial ones

Rotation seen from shaft „DR“: „R“ Shaft „DR“ drives in clockwise direction, „L“ Shaft „DR“ drives in counterclockwise direction

Note: The constant overrunning function must be performed by the driven shaft „DN“

» Refer to mounting and maintenance instructions page 12 to 13

MOUNTING EXAMPLE

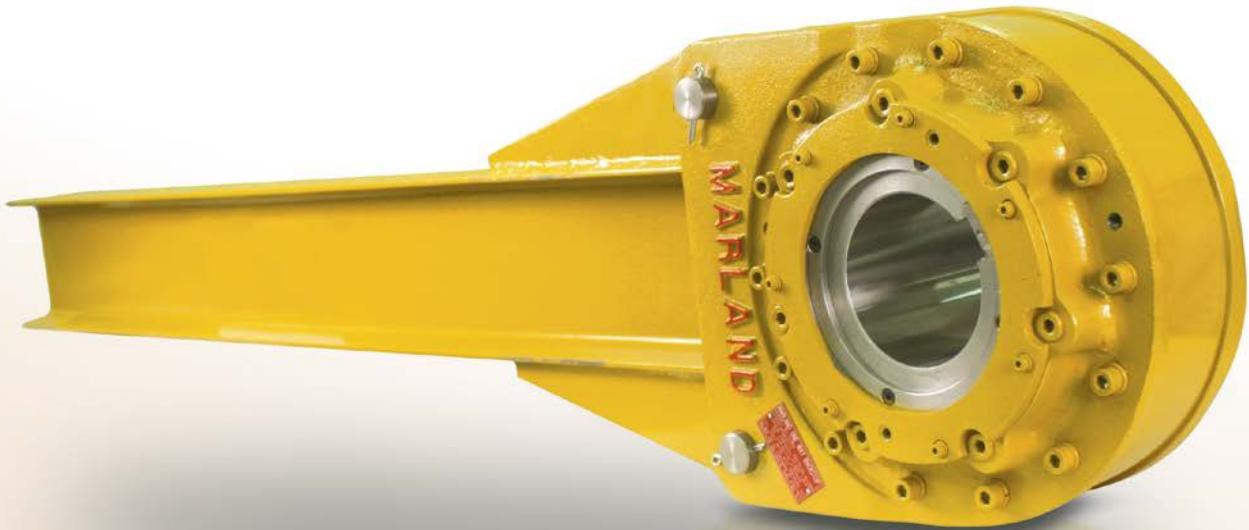


Self-Contained Freewheels

BC MA



TYPE



Type BC MA is a roller type backstop, bearing supported and self-contained. Standard lubrication is oil.

This type is designed to be mounted on the drive pulley shaft of large inclined conveyers. It is capable of working in the harsh environment of mine sites. The unit is symmetrical and can be mounted for desired free shaft rotation. The torque arm is a single "I" beam section which is attached to the backstop with two precision ground torque arm pins. This greatly simplifies field installation. The arm may be placed up, down, or at any angle, and provides uniform loading on both cover plates.

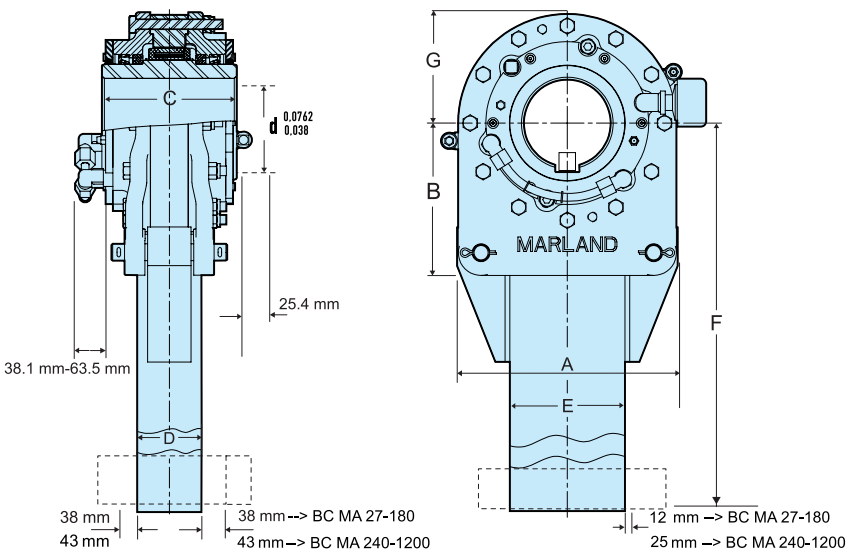
The preferred position is horizontal to reduce bearing loading for longer bearing life. The shaft fit should be f6 or f7. The clutch elements and ball bearings are continuously self-lubricated in a sealed oil chamber.

The seal package consists of:

- Double-lip oil seals outside the bearings to keep oil in and dirt out.
- Relubricable grease pocket and all metal graphited labyrinth grease seal.

Detailed catalog on request.

BC MA



Type	Size	Bore	Overrunning Speed									Weight
BC		d _{max}	T _{KN} ¹⁾ [Nm]	n _{max} [min ⁻¹]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	[kg]
	27MA	165	36 607	150	384	254	222	98	178	1676	191	207
	45MA	180	61 012	135	445	289	235	105	203	1829	216	276
	63MA	205	85 417	120	498	311	244	127	254	1981	244	381
	90MA	235	122 024	105	584	362	276	140	305	2083	270	520
	135MA	265	183 035	90	654	406	314	143	381	2235	308	690
	180MA	300	244 047	80	772	419	330	159	457	2388	349	966
	240MA	360	325 396	70	876	457	387	162	508	2540	413	1242
	300MA	360	406 745	70	876	457	413	162	508	2745	413	1720
	375MA	460	508 432	60	1041	584	445	203	622	3048	495	2760
	540MA	540	732 142	60	1194	673	527	257	692	3658	578	4140
	720MA	540	976 271	60	1194	673	552	257	692	3658	578	4545
	940MA	540	1 274 600	60	1220	700	584	257	692	3960	610	5455
	1200MA	600	1 626 000	60	1320	750	625	267	762	4267	660	6591

NOTES

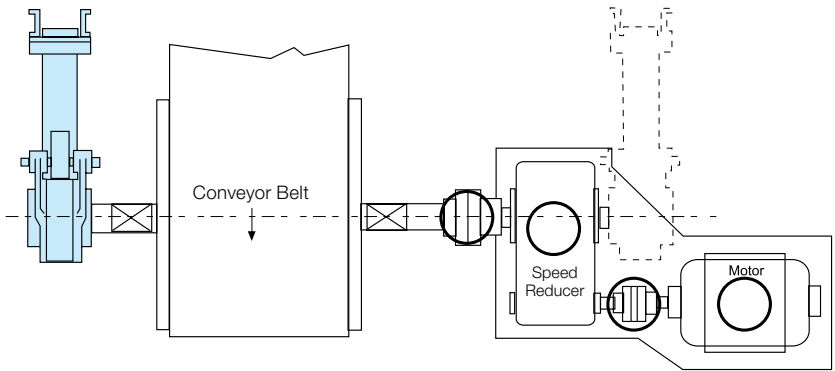
1) T_{max} = 1,75 × T_{KN}

Inch bore available on request
Keyway to DIN 6885.1
For size 1200MA TBD

For more details see separate catalog.

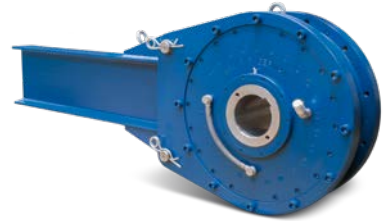
» Refer to mounting and maintenance instructions
page 12 to 13

MOUNTING EXAMPLE

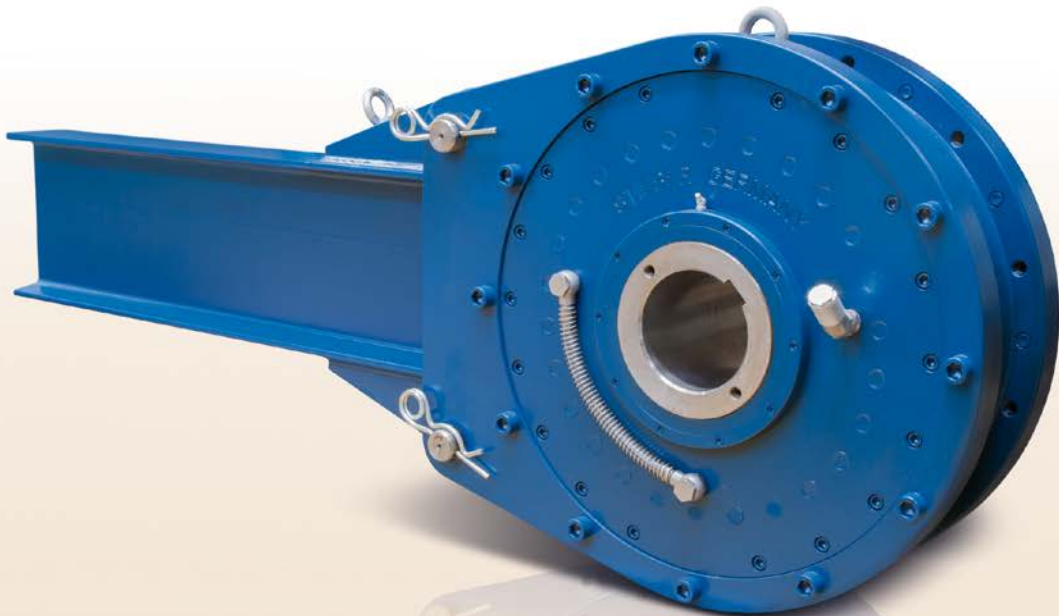


Self-Contained Freewheels

RDBR-E RDBR-E-H



TYPE



Backstops type RDBR-E are directly mounted on the drive shaft, e.g. of heavy duty conveyer belts, mixing drum drives and chain conveyors, when torque limiting / load sharing or the release function is required.

RDBR-E features a roller type backstop design with a fully bearing supported multidisc brake for the torque limiting function. The optional release function allows the tension of a jammed belt to be controlled released. Once the brake is fully opened, the capability of an unlimited rolling backwards makes maintenance safe and easy.

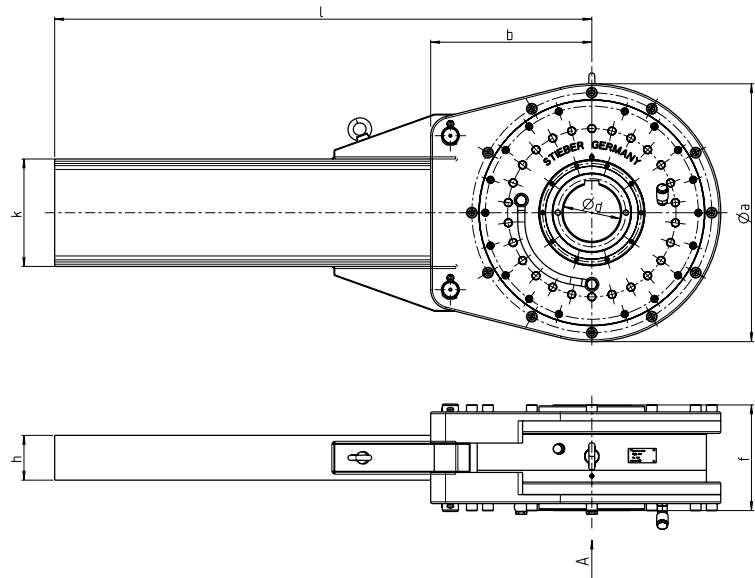
To activate the release function, a simple hydraulic hand pump or power pack can be used. A mechanical release is available on request.

Backstops RDBR-E are self contained and oil lubricated.

A special sealing arrangement with grease packed labyrinth seal guarantees highest reliability under harsh conditions. The recommended shaft fit is H7/f6. The torque arm must not be rigidly fixed to the foundation. For security reasons a stopper in overrunning direction is recommended. When installed, the backstop must be axially secured.

Self-Contained Freewheels

RDBR-E, RDBR-E-H



Type	Size											Weight
		$d_{max}^{H7\ 1)}$ [mm]	$T_r^{2)}$ [kNm]	$n_{max}^{3)}$ [min ⁻¹]	$n_{rmax}^{4)}$ [min ⁻¹]	a [mm]	b [mm]	h [mm]	k [mm]	f [mm]	l [mm]	[kg]
RDBR...-E RDBR...-E-H	280	150	50	175	175	660	410	119	280	295	1500	690
	300	160	75	150	150	720	450	125	300	295	1500	840
	360	190	120	130	130	780	500	137	340	350	1800	1160
	420	240	180	120	120	880	550	149	380	360	2000	1400
	500	320	330	100	100	1075	670	170	450	390	2200	2390

Sizes with a higher torque capacity are available on request.

NOTES

- 1) Keyway to DIN 6885.1
 - 2) Maximal slipping torque.
A lower slipping torque can be set.
 - 3) Maximal overrunning speed
 - 4) Maximal speed rolling backwards, internal brake opened
- When ordering, please specify direction of rotating seen from arrow »A«.
- »R« Inner race overruns in clockwise direction.
 - »L« Inner race overruns in counterclockwise Direction

Refer to mounting and maintenance instructions pages 12 to 13

MOUNTING EXAMPLE

