

Built-In Freewheels

AE



TYPE

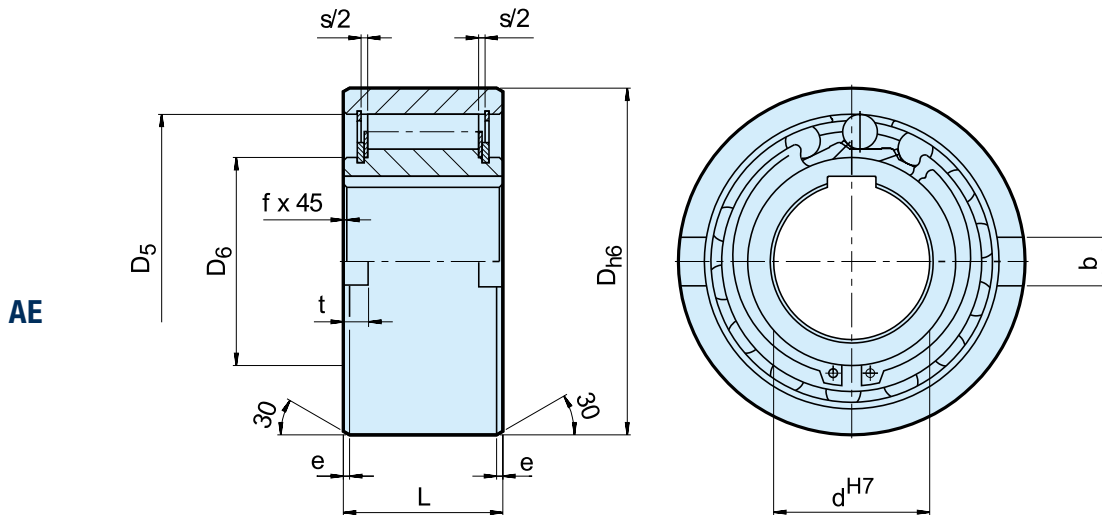


Type AE is a roller type freewheel non-bearing supported. Bearings are required to support axial and radial loads. Lubrication and sealing must also be provided by the installation. Nominal outside diameter is a standard ball bearing dimension.

A typical arrangement is to install this type beside a bearing with the same housing diameter tolerance as shown on the following page.

The inner race is keyed to the shaft. The outer race has a h6 tolerance and should be fitted in a housing with a K7 tolerance. Additional side notches provide for positive torque transmission.

If the housing tolerance is to R6, use of the notches is not necessary, but the housing must be strong enough to not expand after assembly. This design can accept an axial misalignment of inner and outer race of $\pm S/2$.



Type	Size	Overrunning speeds											Weight	Drag torque	
	d^{H7} [mm]	$T_{KN}^{1)}$ [Nm]	$n_{imax}^{2)}$ [min ⁻¹]	$n_{amax}^{3)}$ [min ⁻¹]	D_{h6} [mm]	D_5 [mm]	D_6 [mm]	L [mm]	s [mm]	f [mm]	e [mm]	b [mm]	t [mm]	[kg]	T_R [Ncm]
AE	12	17	3100	6000	37	28	20	20	4,5	0,5	0,8	6	3	0,11	0,7
	15	55	2300	5400	47	37	26	30	4,5	0,8	1,2	7	3,5	0,30	3,5
	20	146	2000	3600	62	50	35	34	5,5	0,8	1,2	8	3,5	0,55	8,4
	25	285	1700	2600	80	68	45	37	6,5	1	1,8	9	4	0,98	14
	30	500	1500	2100	90	75	50	44	6,2	1	1,8	12	5	1,50	23
	35	720	1300	1950	100	80	55	48	3,8	1	1,8	13	6	2,00	60
	40	1030	1200	1700	110	90	60	56	3,8	1,5	1,8	15	7	2,80	72
	45	1125	1050	1600	120	95	65	56	3,8	1,5	2,6	16	7	3,30	140
	50	2150	950	1300	130	110	75	63	5,8	1,5	2,6	17	8	4,20	180
	55	2675	850	1200	140	115	82	67	3,8	2	2,6	18	9	5,20	190
	60	3500	800	1100	150	125	90	78	7,6	2	2,6	18	9	6,80	240
70	5813	650	900	170	140	100	95	7,6	2,5	2,6	20	9	10,5	320	

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

