

Low Speed Backstops FRSC

with lever arm
with rollers

RINGSPANN®



Application as

Backstop

for installations with low speeds. The free-wheels are designed for the use in inclined conveyor-belts, elevators or pumps.

Features

Low Speed Backstops FRSC with lever arm are sealed roller freewheels with ball bearings. They are supplied oil-filled and ready for installation.

The Low Speed Backstops FRSC are arranged on through shafts or shaft ends.

Nominal torques up to 215 500 Nm.

Bores up to 300 mm.

Application example

Backstop FRSC 900 on the head drum shaft of an inclined conveyor belt system. The lever arm is bolted to the freewheel. The backdriving torque is supported by the lever arm on the base plate. When the conveyor belt is without any load, the drum shaft can be turned in both directions during maintenance by removing the bolts.

Mounting

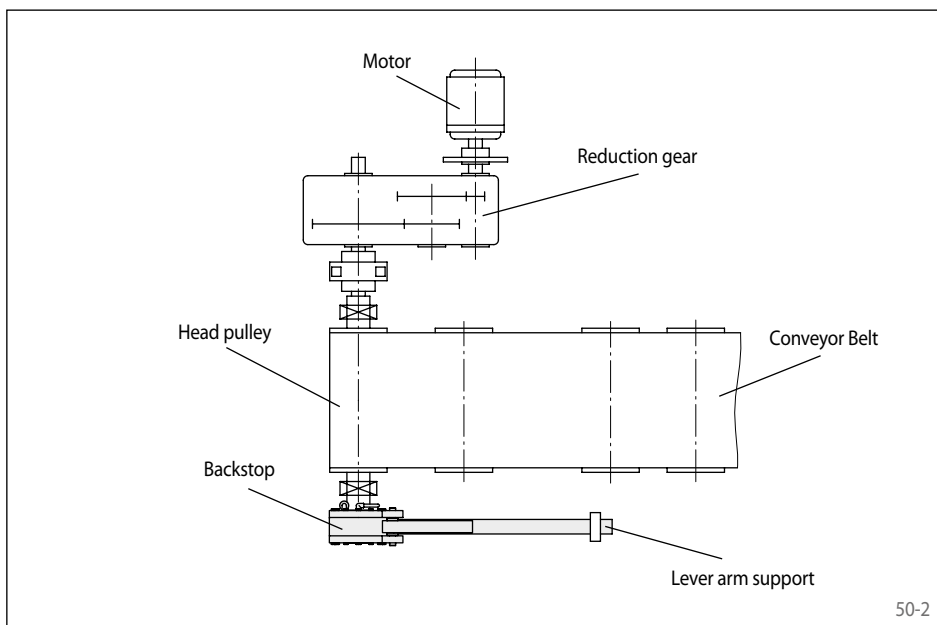
The backdriving torque is supported by the lever arm. The positioning of the lever arm can be adjusted at any angle. The lever arm must not be clamped into position. It must have 12.7 mm play in the axial and in the radial direction.

The tolerance of the shaft must be ISO h6 or j6.

Example for ordering

Freewheel size FRSC 800 with a 115 mm bore:

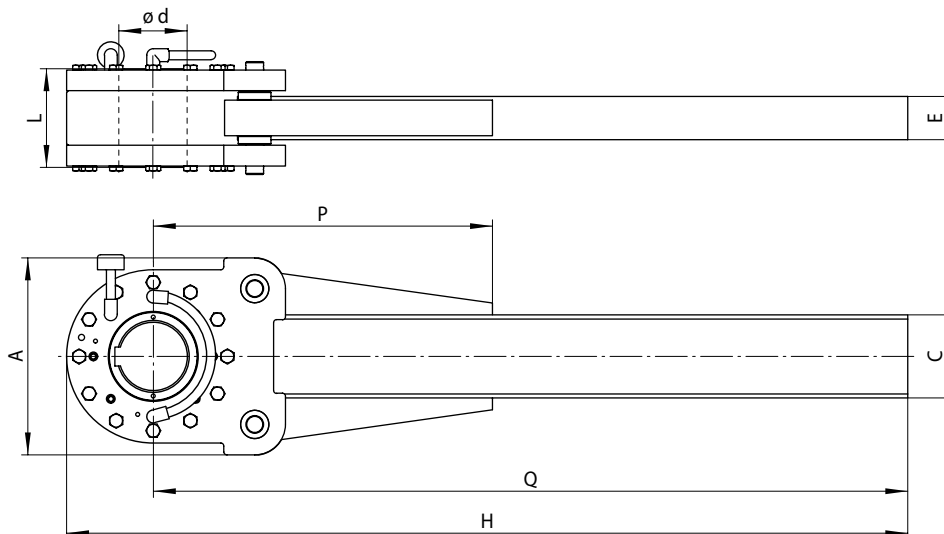
- FRSC 800, d = 115 mm



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51-1

Backstop

Standard type
For universal use

Dimensions

	Freewheel Size	Nominal torque M_N	Max. speed Inner ring freewheels	Bore d max.	A	C	E	H	L	P	Q	Weight
		Nm	min ⁻¹	mm	mm	mm	mm	mm	mm	mm	mm	kg
metric	FRSC 775	9200	300	100	280	120	64	1045	160	390	920	75
	FRSC 800	14000	250	115	332	140	73	1418	170	571	1272	212
	FRSC 900	21000	180	140	380	160	82	1605	182	585	1435	164
	FRSC 1000	37500	150	165	424	180	91	1876	214	587,5	1684	230
	FRSC 1100	60000	135	180	480	203	133	2053	226	587,5	1830	337
	FRSC 1150	76500	120	200	546	254	146	2250	250	587,5	2000	451
	FRSC 1200	105500	105	230	580	305	165	2356	280	711	2086	563
	FRSC 1300	160000	90	280	656	356	171	2543	319	762	2235	770
	FRSC 1400	215500	80	300	760	457	191	2760	350	914	2400	1198
inch		lb-ft	min ⁻¹	inch	inch	inch	inch	inch	inch	inch	inch	lbs
	FRSC 775	6700	300	3,94	11,02	4,72	2,52	41,14	6,30	15,35	36,22	165
	FRSC 800	10300	250	4,53	13,07	5,51	2,87	55,83	6,69	22,48	50,08	467
	FRSC 900	15300	180	5,51	14,96	6,30	3,23	63,19	7,17	23,03	56,50	362
	FRSC 1000	27600	150	6,50	16,69	7,09	3,58	73,86	8,43	23,13	66,30	507
	FRSC 1100	44400	135	7,09	18,90	7,99	5,24	80,83	8,90	23,13	72,05	743
	FRSC 1150	56400	120	7,87	21,50	10,00	5,75	88,58	9,84	23,13	78,74	994
	FRSC 1200	77800	105	9,06	22,83	12,01	6,50	92,76	11,02	27,99	82,13	1241
	FRSC 1300	117900	90	11,02	25,83	14,02	6,73	100,12	12,56	30,00	87,99	1698
	FRSC 1400	158900	80	11,81	29,92	17,99	7,52	108,66	13,78	35,98	94,49	2641

The maximum transmissible torque is 2 times the specified nominal torque. See page 14 for determination of selection torque.
Keyway dimensions upon request by customers.