

Cage Freewheels SF

for assembly with inner and outer ring
with sprags, available in three types

RINGSPANN®



100-1

Application as

- ▶ Backstop
- ▶ Overrunning Clutch
- ▶ Indexing Freewheel

Features

Cage Freewheels SF are sprag freewheels to be installed between customer-supplied inner and outer rings.

In addition to the standard type, two other types are available for extended service life.

Nominal torques up to 93 000 Nm.

Mounting

The lateral guidance of the Cage Freewheels can be effected either by a shoulder on the outer ring or by guard rings or guard discs which are fixed in the outer ring.

Torque transmission capacity can be increased if several cages are arranged side by side. In this case please consult with RINGSPANN on transmissible torques.

Please note the technical points on page 114 regarding the sprag tracks.

Example for ordering

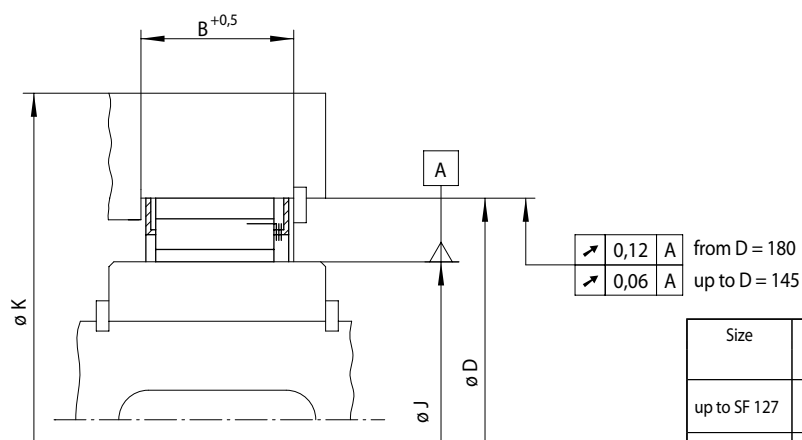
Freewheel size SF 44-14,5, standard type:

- SF 44-14,5 K

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Size	Tolerance of track (mm)	
	ø J	ø D
up to SF 127	-0,01 -0,03	+0,01 -0,01
from SF 140	-0,02 -0,06	+0,02 -0,02

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Indexing Freewheel Overrunning Clutch Backstop	Standard type For universal use	Type with RIDUVIT® For extended service life using coated sprags	Type with sprag lift-off Z For extended service life using sprag lift-off at high speed rotating outer ring	Dimensions

Freewheel Size	Type	Nominal torque M _N Nm	Type	Nominal torque M _N Nm	Type	Nominal torque M _N Nm	Sprag lift-off at outer ring speed min ⁻¹	Max. speed Inner ring drives min ⁻¹	J mm	D mm	B mm	K mm	Sprags Quantity	Weight kg
SF 18-13,5	J	66	JT	66	JZ				18,80	35,47	13,5	50	10	0,04
SF 23-13,5	J	120							23,63	40,29	13,5	55	12	0,04
SF 31-13,5	J	170	JT	170	JZ	110	3400	1360	31,75	48,41	13,5	70	12	0,04
SF 32-21,5	J	400							32,77	49,44	21,5	65	14	0,07
SF 37-14,5	K	270	KT	270	KZ	210	2900	1160	37	55	14,5	75	14	0,06
SF 42-21	J	720							42,10	58,76	21	85	18	0,09
SF 44-14,5	K	500	KT	500	KZ	400	2250	900	44	62	14,5	90	20	0,08
SF 46-21	J	840							46,77	63,43	21	90	20	0,10
SF 50-18,5	K	680	KT	680	KZ	580	2250	900	50	68	18,5	90	20	0,10
SF 56-21	J	1050							56,12	72,78	21	100	22	0,11
SF 57-18,5	K	950	KT	950	KZ	800	2000	800	57	75	18,5	105	24	0,13
SF 61-21	J	1300	JT	1300	JZ	1150	1550	620	61,91	78,57	21	110	26	0,14
SF 72-23,5	K	2100	KT	2100	KZ	1850	1550	620	72	90	23,5	135	32	0,23
SF 82-25	K	2300	KT	2300	KZ	2100	1450	580	82	100	25	140	36	0,26
SF 107-25	K	3300	KT	3300	KZ	3100	1300	520	107	125	25	170	48	0,35
SF 127-25	K	4900	KT	4900	KZ	4600	1200	480	127	145	25	210	56	0,40
SF 140-50	S	13600	ST	13600	SZ	10500	950	380	140	180	50	260	24	1,70
SF 140-63	S	18000	ST	18000	SZ	14000	800	320	140	180	63	260	24	2,00
SF 170-50	S	17000	ST	17000	SZ	13500	880	352	170	210	50	290	28	1,95
SF 170-63	S	23000	ST	23000	SZ	18500	720	288	170	210	63	290	28	2,40
SF 200-50	S	23000	ST	23000	SZ	18500	820	328	200	240	50	325	36	2,50
SF 200-63	S	29000	ST	29000	SZ	23500	680	272	200	240	63	325	36	3,10
SF 230-63	S	37000	ST	37000	SZ	29500	650	260	230	270	63	360	45	3,90
SF 270-50	S	35000	ST	35000	SZ	29500	720	288	270	310	50	410	48	3,40
SF 270-63	S	44000	ST	44000	SZ	37000	600	240	270	310	63	410	48	4,20
SF 340-50	S	45000	ST	45000	SZ	43000	640	256	340	380	50	510	60	4,20
SF 340-63	S	67500	ST	67500	SZ	57500	540	216	340	380	63	510	60	5,20
SF 380-50	S	57000	ST	57000	SZ	48500	610	244	380	420	50	550	63	4,40
SF 440-63	S	93000	ST	93000	SZ	80000	470	188	440	480	63	640	72	6,20

Cage Freewheels SF are available with short delivery times.

The theoretical nominal torque applies only for ideal concentricity between the inner and outer ring.

The maximum transmissible torque is 2 times the specified nominal torque. See page 14 for determination of selection torque.