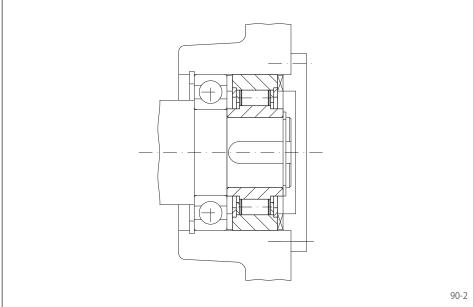
Internal Freewheels FSN

RINGSPANN®

for keyway connection on the outer ring with rollers





Application as

- Backstop
- Overrunning Clutch
- Indexing Freewheel

Features

Internal Freewheels FSN are roller freewheels without bearing support.

The freewheel is built into the customer housing. This makes compact, space-saving fitting solutions possible.

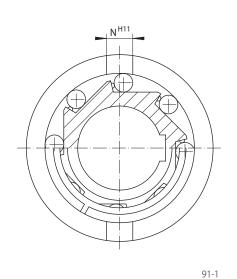
Nominal torques up to 3 000 Nm. The faces of both sides of the outer ring are provided with grooves for torque transmission.

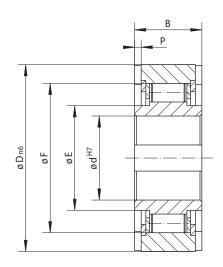
Bores up to 80 mm.

Application example

Internal freewheel FSN 50 as backstop fitted to the end of the intermediate shaft of a spur gear-box in the drive of an elevator. In the case of a motor stop, the elevator must be held securely so that the conveyor goods do not pull backwards.

for keyway connection on the outer ring with rollers





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Indexing Freewheel Overrunning Clutch Backstop	Standard type For universal use	Dimensions

		Max.speed		Bore	В	D	E	F	N	Р	Weight
Freewheel Size	Nominal torque M _N	Inner ring freewheels/ overruns	Outer ring freewheels/ overruns	d							
	Nm	min ⁻¹	min ⁻¹	mm	mm	mm	mm	mm	mm	mm	kg
FSN 8	11	3 0 5 0	4700	8	13	35	18,5	28	4	1,3	0,1
FSN 12	11	3 0 5 0	4700	12	13	35	18,5	28	4	1,3	0,1
FSN 15	36	2350	3700	15*	18	42	21,0	36	5	1,7	0,1
FSN 17	56	2100	3 3 0 0	17*	19	47	24,0	40	5	2,0	0,2
FSN 20	90	1750	3 2 0 0	20*	21	52	29,0	45	6	1,5	0,2
FSN 25	125	1650	3 100	25*	24	62	35,0	52	8	2,0	0,4
FSN 30	210	1 400	2200	30*	27	72	40,0	60	10	2,5	0,6
FSN 35	306	1 2 5 0	2150	35*	31	80	47,0	68	12	3,5	0,8
FSN 40	430	1100	2050	40*	33	90	55,0	78	12	3,5	0,9
FSN 45	680	1000	1900	45*	36	100	56,0	85	14	3,5	1,3
FSN 50	910	900	1750	50*	40	110	60,0	92	14	4,5	1,7
FSN 60	1 200	750	1450	60*	46	130	75,0	110	18	5,5	2,8
FSN 70	2000	600	1000	70*	51	150	85,0	125	20	6,5	4,2
FSN 80	3 000	500	900	80*	58	170	95,0	140	20	7,5	6,0

Freewheels with bore diameters highlighted blue in the table are available with short delivery times.

Mounting

Internal Freewheels FSN are without bearing support. Concentric alignment of inner and outer ring must be provided by the customer.

The tolerance of the housing bore D must be ISO H7 or G7 and the tolerance of the shaft must be ISO h6 or i6.

The outer ring has to be completely enclosed in a stable housing to transmit the listed torques.

Lubrication

An oil lubrication of the specified quality must be provided.

Example for ordering

Freewheel size FSN 12, standard type:

• FSN 12

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

Keyway according to DIN 6885, page 1 • Tolerance of keyway width JS10.

* Keyway according to DIN 6885, page 3 • Tolerance of keyway width JS10.