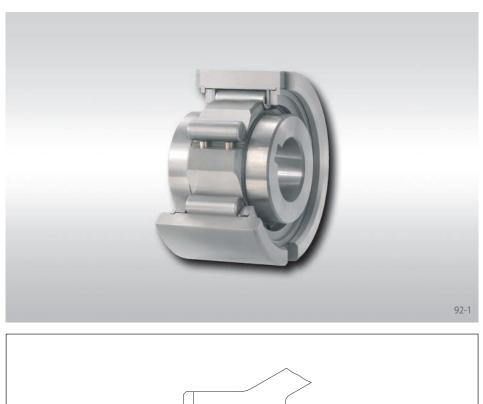
Internal Freewheels FN

RINGSPANN®

for keyway connection on the outer ring with rollers



Application as



- Overrunning Clutch
- Indexing Freewheel

Features

Internal Freewheels FN are roller freewheels without bearing support.

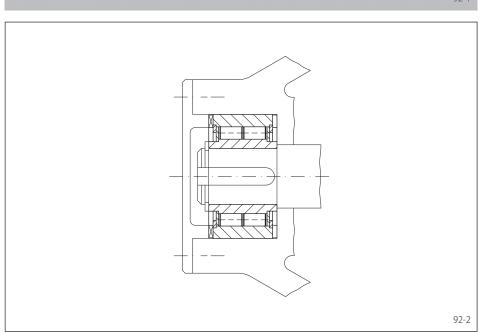
The freewheel is built into the customer housing. This makes compact, space-saving fitting solutions possible.

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 60 mm.

Application example

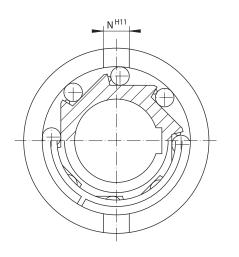
Internal freewheel FN 20 as a backstop, on the drive shaft of running gears on a chain conveyor. In normal operation, the drive shaft drives and the freewheel works in freewheeling operation. The freewheel as a backstop prevents the running gears from being able to run backwards uncontrolled in the event of a fault.

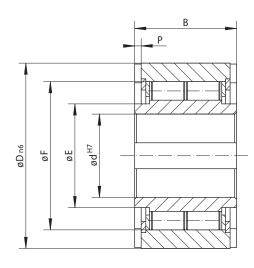


Internal Freewheels FN

RINGSPANN[®]

for keyway connection on the outer ring with rollers





93-1

93-2

heel utch stop	Standard type For universal use			Dimensions							
Indexing Freewheel Overrunning Clutch Backstop											
l funu											
Skeller											
		Max. speed		Bore	В	D	E	F	N	Р	Weight
	Nominal	Inner ring	Outer ring	d							
Freewheel	torque	freewheels/	freewheels/								
Size	M _N	overruns	overruns								
	Nm	min ⁻¹	min ⁻¹	mm	mm	mm	mm	mm	mm	mm	kg
FN 8	18	2800	5 400	8	20	37	19	30	6	3,0	0,1
FN 12	18	2800	5 400	12	20	37	19	30	6	3,0	0,1
FN 15	50	2 5 0 0	5100	15	30	47	23	37	7	3,5	0,3
FN 20	112	1 900	4 350	20	36	62	35	50	8	3,5	0,6
FN 25	220	1 5 5 0	3 3 5 0	25	40	80	40	68	9	4,0	1,1
FN 30	410	1 400	3 0 5 0	30	48	90	45	75	12	5,0	1,6
FN 35	500	1 300	2850	35	53	100	50	80	13	6,0	2,3
FN 40	750	1 1 5 0	2 500	40	63	110	55	90	15	7,0	3,1
FN 45	1 0 2 0	1 100	2400	45	63	120	60	95	16	7,0	3,7
FN 50	1 900	950	2050	50	80	130	70	110	17	8,5	5,3
FN 55	2000	900	1 900	55	80	140	75	115	18	9,0	6,0
FN 60	3 0 0 0	800	1 800	60	95	150	80	125	18	9,0	8,4

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

Mounting

Internal Freewheels FN 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 j6.

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 FN 45, standard type:

• FN 45