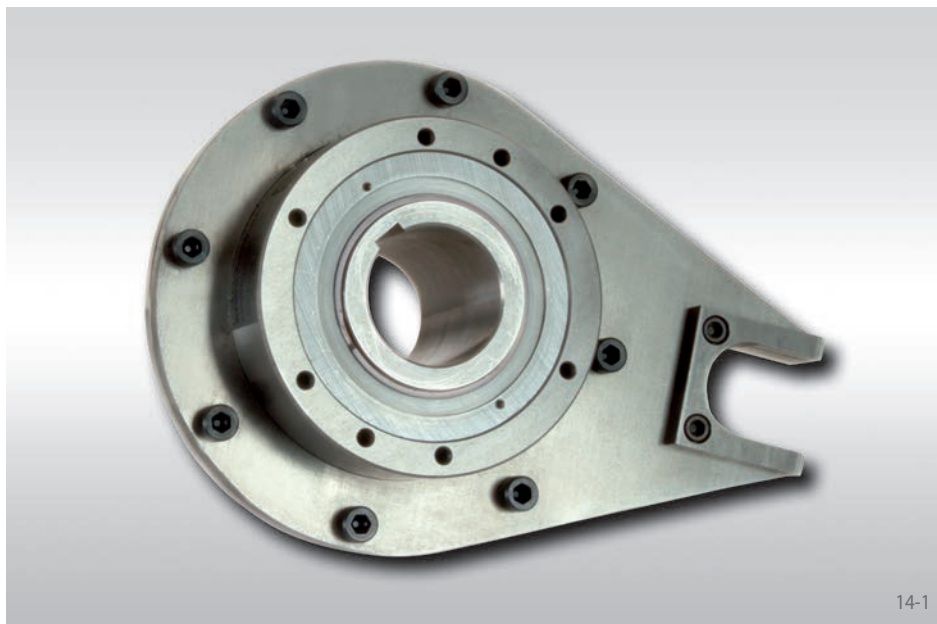


Complete Freewheels FRXF

RINGSPANN®

with torque arm

with sprag lift-off X and sealed grease lubricated ball bearings



14-1

Application as

▶ Backstop

Features

Complete Freewheels FRXF are freewheels with sprag lift-off X, labyrinth seals, and sealed grease lubricated ball bearings. All units are supplied complete with torque arms. FRXF backstops are maintenance free and lubricated for life prior to shipping.

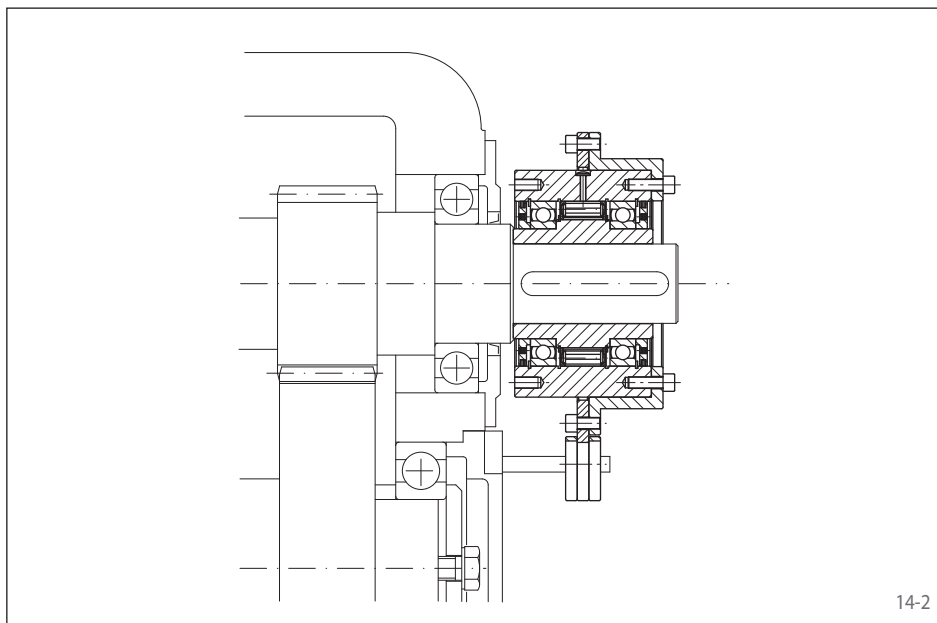
Maximum torques up to 29 000 lb-ft.

Bores up to 4.5 inch. Standard bores are available from stock.

Application example

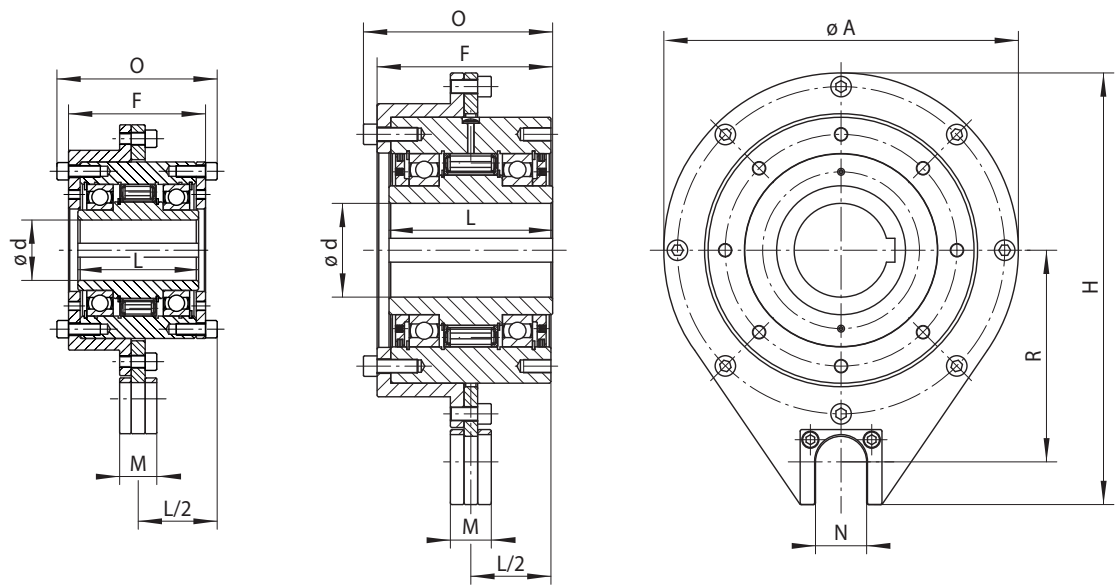
Complete Freewheel FRXF as backstop, arranged at the end of a high speed shaft of the gearbox. The back driving torque is restrained by the clutch torque arm and the gearbox torque arm pin.

With this high shaft speed under normal operation (freewheeling operation), sprag lift-off X is used; the sprags work in freewheeling operation without contact and are wear-free.



14-2

with torque arm
with sprag lift-off X and sealed grease lubricated ball bearings



Size FRXF 550

Size FRXF 700 to FRXF 800

15-1

Backstop	Type with sprag lift-off X To extend service life using sprag lift-off for high speed rotating inner ring				Dimensions																		
Freewheel Size	Maximum torque M _M lb-ft	Nominal torque M _N lb-ft	Sprag lift-off at inner ring speed rpm*	Maximum speed inner ring overruns rpm	Bore d Standard bores inch								max. inch	A inch	F inch	H inch	L inch	M inch	N inch	O inch	R inch	Torque arm Size	Weight lbs
FRXF 550	1 500	750	700	4000	1.250	1.312	1.500	1.625				1.625	6.750	3.750	8.313	3.25	1.00	0.813	4.380	4.00	#10	20	
FRXF 700	8 100	4 050	350	3 600	1.938	2.000	2.250	2.438	2.500	2.750	2.938	2.938	9.375	5.250	11.813	5.00	1.25	1.250	5.625	6.00	#20	60	
FRXF 775	14 800	7 300	320	2 100	2.750	2.938	3.000	3.250	3.438	3.500	3.750	3.750	13.000	6.375	15.825	6.00	1.50	1.875	6.875	7.76	#60	150	
FRXF 800	29 000	14 500	250	1 800	4.500							4.500	13.000	6.375	15.825	6.00	1.50	1.875	6.875	7.76	#60	160	

See page 9 for determination of selection torque.
* Maximum recommended operating speed.
Keyway dimensions upon request by customers.

Mounting

The back driving torque is restrained by the clutch torque arm and the gearbox torque arm pin. It must have clearance of 1/4 inch to 1/2 inch in both radial and axial directions.

Complete Freewheels FRXF are furnished to size for a slip fit on the shaft.

Non lift off clutch varieties are available when operating below sprag lift off speeds.

Lubrication

The freewheels FRXF 700 and larger are supplied with labyrinth seals, sealed grease lubrication ball bearings and required no additional lubrication.