



Part Number	FP 437 Z
Type	Complete Freewheel Clutch Unit
Spring	Z (Tension)
Sealed	No
Lubrication	None
Inner Ring Keyway	No
Outer Ring Keyway	No
Integrated Ball Bearing	Yes
Integrated Roller Bearing	Yes

Shaft & Housing Tolerances

Shaft Tolerance	h5
Housing Tolerance	H6
Shaft & Housing Chamfer	1mm x 15°

Geometrical Data

Bore Diameter	d [mm]	25
Outer Diameter	D [mm]	41
Width	W [mm]	27
Weight	[kg]	0.12

Ratings

Nominal Torque	[Nm]	160
Nominal Torque	[ft-lb]	118.0
Max. Static Radial Load	[N]	8,142
Max. Dynamic Radial Load	[N]	9,201
Max. Indexing Frequency	[Hz]	10
Max. Speed ²	[rpm]	4,800
Max. Operating Temperature ³	[°C]	140

Notes:

1. The stated speed and torque ratings are contingent on utilizing specified tolerances, correct installation techniques, and operating temperature and load conditions below the specified maximums. If specific applications differ, please consult GMN USA engineers.
2. The stated RPM value is for the maximum freewheel rotational speed for the sprags, not the shaft or housing. High freewheel rotational speeds can produce centrifugal forces that can cause the sprags to lift off from frictional contact, therefore creating an opportunity for improper engagement and potential slip. The sprag RPM must be below the listed value before engagement occurs. The actual sprag freewheel speed is difficult to determine because the sprags are driven by frictional forces from the race(s) and lubrication. Theoretically there is no maximum rotational speed in the driving direction; the inner race, sprags, and outer race rotate as one unit unaffected by centrifugal forces. Please consult GMN USA engineers with high RPM applications that approach or exceed the stated RPM rating.
3. The stated temperature rating is for an injection molded cage. The maximum temperature rating is 170°C for a steel cage.