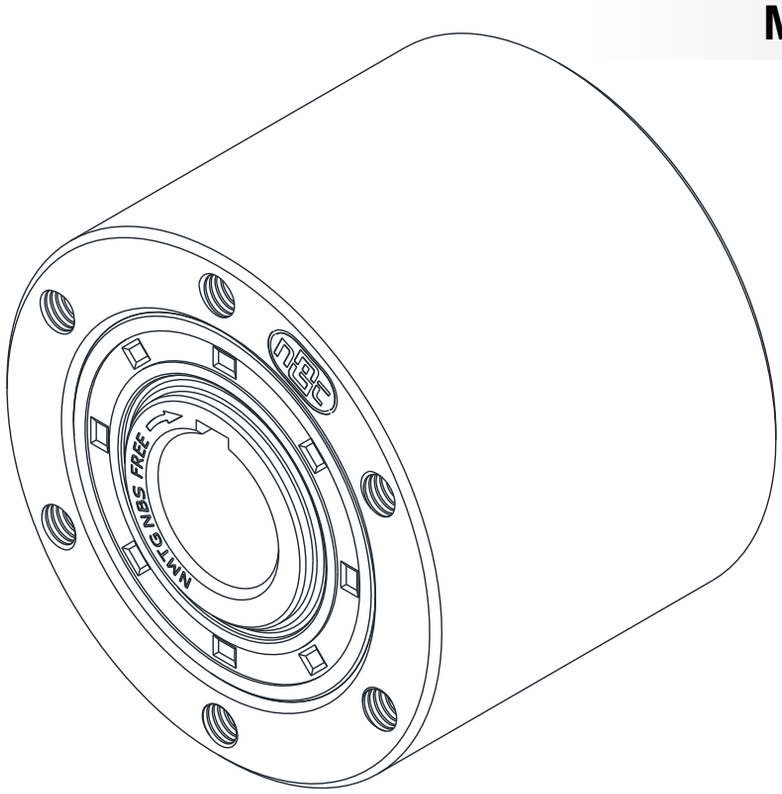
Freewheel One way clutch / Backstop Clutch
Model NBS



❖ **Function:**

➢ **Backstopping.**
In backstop applications, the Freewheel one way clutch are used to prevents reverse rotation of drive shafts, when input drive is discontinue or power supply failure to input drive. Backstop clutch use to prevent damage caused by power supply failure.

❖ **Features:**

1) NBS model is Sprag type Freewheel one way clutch with sealing & integrated bearing supports.
2) This type of Freewheel one way clutch are designed to provide inner race overrunning capability in one direction of rotation, and engage the outer race when reverse rotation.

3) Outer race end faces have Tapped Holes for attachment of items such as Torque/Lever Arm, Coupling, Sprocket, Pulley, etc.
4) This type of freewheels are supplied with grease lubrication and ready for installation.

5) Bore range: up to 270 mm.
6) Nom. Transmitting torque: 123000 Nm.

❖ **Application:**

- Inclined Conveyors
- Bucket Elevators
- Pumps
- General Industrial Applications

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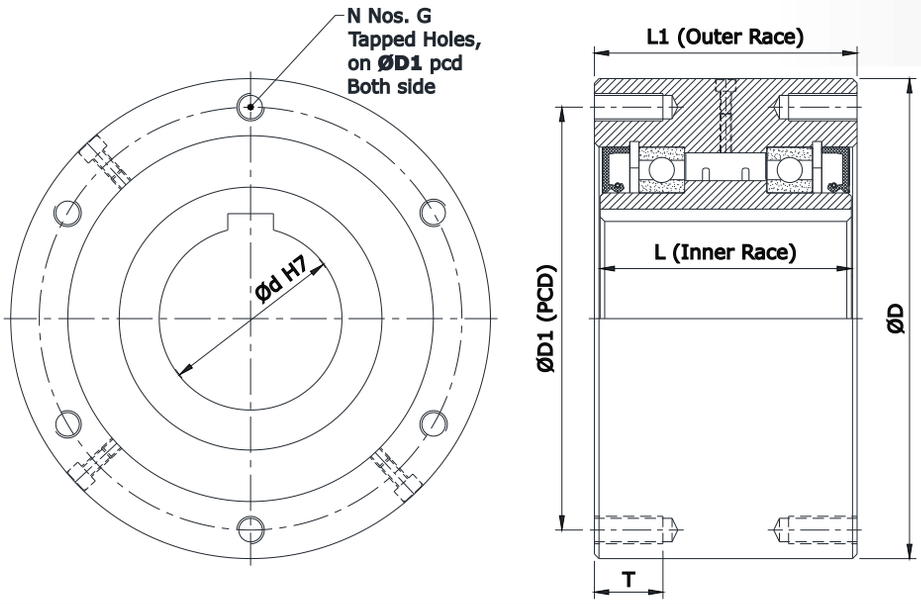

Model	Max Bore Dia d (H7) (mm)	Nom. Torque Capacity (Tn) (Nm)	Max. Overrunning Inner Race (RPM)	D (mm)	L (mm)	L1 (mm)	D1 (PCD) (mm)	N x G No. of Tapped Holes x Size x Pitch	T (mm)	Weight (kg)
NBS 30	30	295	525	90	64	64	80	4 x M6 x 1p	13	2.2
NBS 50	50	785	510	125	67	67	110	4 x M8 x 1.25p	16	4.6
NBS 65	65	1579	475	160	85	90	140	6 x M10 x 1.5p	20	12.9
NBS 75	75	2458	450	170	85	90	150	6 x M10 x 1.5p	20	14.5
NBS 85	85	5880	425	210	110	115	185	6 x M12 x 1.75p	30	27.1
NBS 95	95	7840	400	230	110	115	200	6 x M14 x 2p	30	32.1
NBS 110	110	10800	375	270	110	115	220	6 x M16 x 2p	30	38.5
NBS 135	135	15700	350	320	130	135	280	8 x M16 x 2p	30	76.0
NBS 160	160	24590	310	360	130	135	315	10 x M20 x 2.5p	40	98.0
NBS 200	200	37280	270	430	145	150	380	8 x M22 x 2.5p	40	166.8
NBS 220	220	49010	240	500	230	235	420	16 x M20 x 2.5p	40	301
NBS 250	250	88210	170	600	290	295	530	16 x M24 x 3p	50	579.1
NBS 270	270	123000	150	650	290	295	575	16 x M24 x 3p	50	620.0

Notes :

1) Function : Backstopping
2) Tmax = 2 x Tn.
3) Oil / Grease filled, ready to fit.
4) Shaft dia. is to be controlled within h6
5) Keyway as per DIN 6885 - 1.
6) Other sizes on request.

Ordering Example :

- When ordering please specify bore dia.
- **NBS 110 - 110 mm (Bore Dia.)**

Dimensions/Design subject to modifications without any prior intimation.