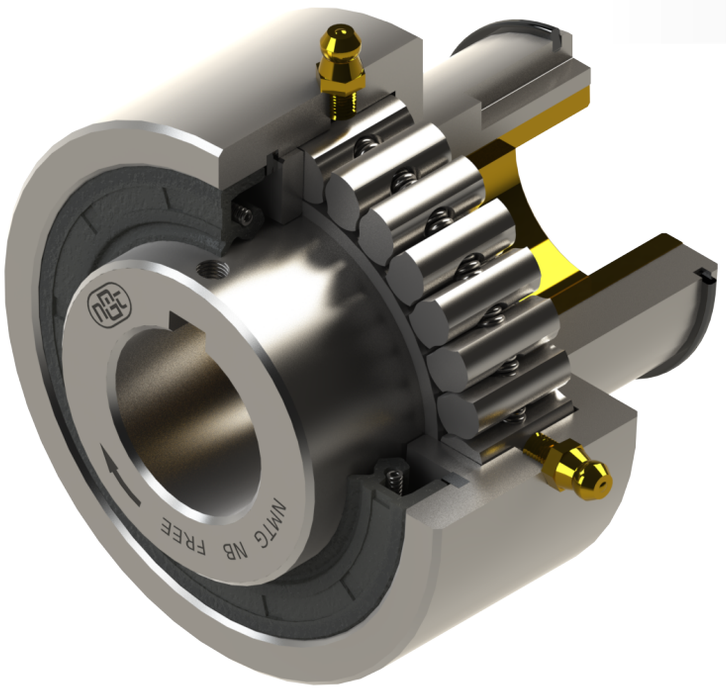
Freewheel One way clutch / Backstop Clutch

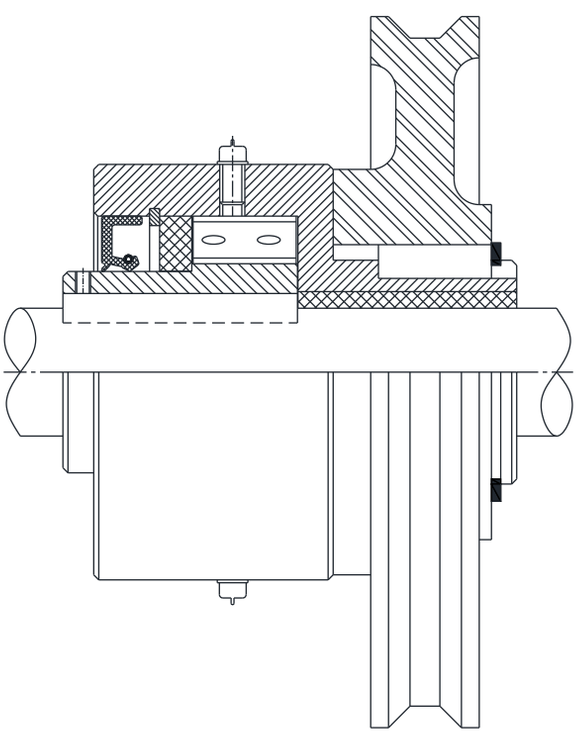
NB Model



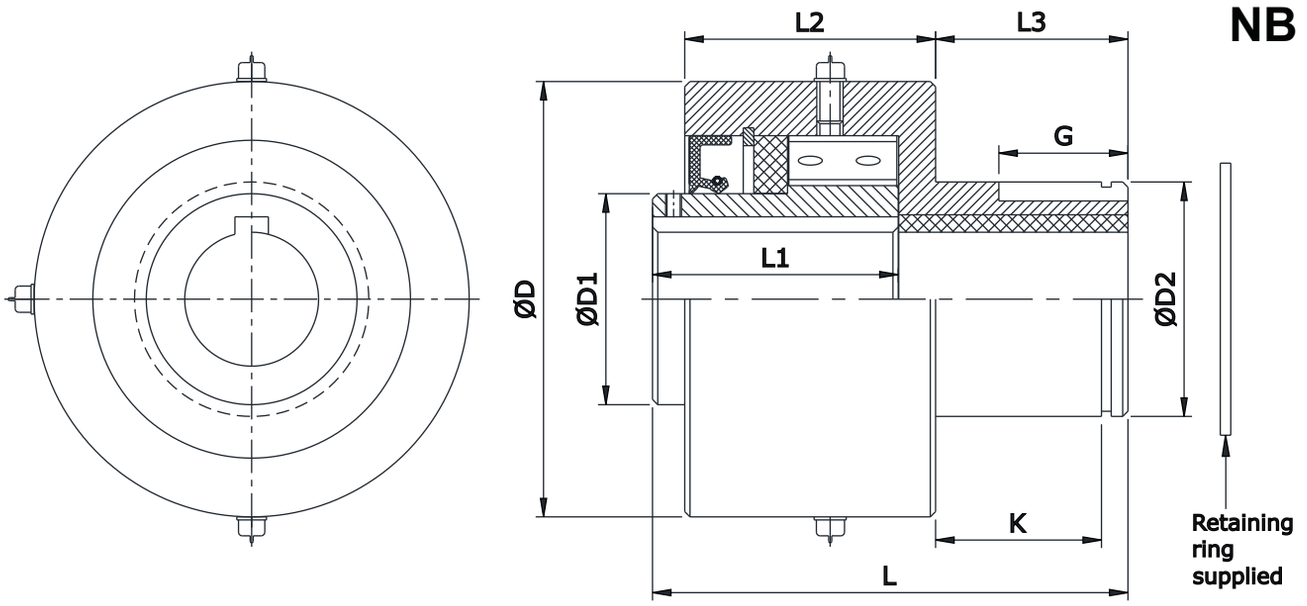
❖ Features:

- This type of Clutch is supplied with extended Spigot at one side to allow direct mounting of Customer connecting parts.
- A sleeve inside the extended spigot give greater support, thus adding Strength.
- Requires Grease Lubrication
- Bore range: up to 50 mm
- Transmitting torque: 2170 Nm

◆ Mounting Example:



NB



Model	L mm (in)	D mm (in)	D2 (max) mm (in)	D2 (min) mm (in)	L2 mm (in)	D1 mm	L3 mm (in)	G mm (in)	L1 mm (in)	K (min) mm (in)	Hub Keyway Size mm (in)
NB 3	47.62 (1.88)	47.00 (1.85)	22.23 (0.875)	22.20 (0.874)	19.81 (0.78)	20.00	20.64 (0.81)	12.70 (0.50)	23.80 (0.94)	16.74 (0.66)	3.175 x 1.58 (1/8 x 1/16)
NB 5	69.85 (2.75)	50.80 (2.00)	31.75 (1.250)	31.72 (1.249)	31.75 (1.25)	25.00	25.40 (1.00)	14.27 (0.56)	41.27 (1.63)	21.13 (0.83)	4.762 x 2.38 (3/16 x 3/32)
NB 6	80.95 (3.19)	73.03 (2.88)	34.93 (1.375)	34.90 (1.374)	39.67 (1.56)	35.00	33.32 (1.31)	23.80 (0.94)	42.85 (1.69)	29.13 (1.15)	4.76 x 2.38 (3/16 x 3/32)
NB 8	90.22 (3.55)	82.55 (3.25)	44.45 (1.750)	44.42 (1.749)	47.60 (1.87)	40.00	36.50 (1.44)	24.50 (0.96)	47.62 (1.88)	31.47 (1.24)	6.35 x 3.175 (1/4 x 1/8)

Model	Bore dia. d (H7) mm	Bore dia. d (H7) inch	Torque Capacity (Tn) Nm (lb-ft)	Overrunning Inner Race RPM	Overrunning Outer Race RPM	Weight Kg (lb)
NB 3	10	0.375 0.500	54 (40)	1950	900	0.28 (0.62)
NB 5	16	0.500 0.625	115 (85)	1950	900	0.6 (1.32)
NB 6	18	0.750	372 (275)	1950	750	1.36 (3.00)
NB 8	25	0.875 1.000	542 (400)	1650	600	1.93 (4.25)

Notes :

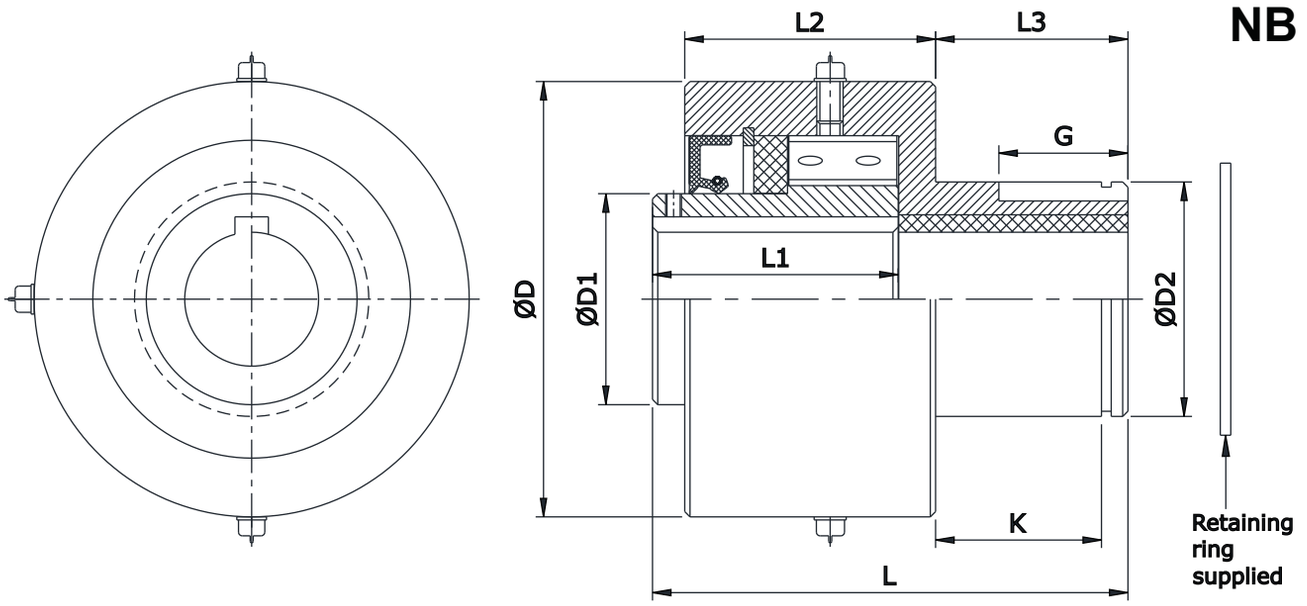
1) Function : Overrunning, Backstopping, Indexing
2) Tmax = 2 x Tn.
3) Oil / Grease filled, ready to fit.
4) Shaft dia. is to be controlled within h6
5) Keyway as per DIN 6885 - 1.
6) Other sizes on request.

Ordering Example :

- When ordering please specify bore dia.
- **NB 3 - 10**

Dimensions/Design subject to modifications without any prior intimation.

NB



Model	L mm (in)	D mm (in)	D2 (max) mm (in)	D2 (min) mm (in)	L2 mm (in)	D1 mm	L3 mm (in)	G mm (in)	L1 mm (in)	K (min) mm (in)	Hub Keyway Size mm (in)
NB 10	88.90 (3.50)	95.25 (3.75)	57.15 (2.250)	57.12 (2.249)	44.45 (1.75)	55.00	36.50 (1.44)	23.80 (0.94)	46.02 (1.81)	32.11 (1.26)	7.938 x 3.96 (5/16 x 5/32)
NB 12	98.42 (3.87)	112.71 (4.44)	63.50 (2.500)	63.47 (2.499)	52.40 (2.06)	60.00	36.50 (1.44)	30.15 (1.19)	53.97 (2.13)	30.61 (1.21)	9.525 x 4.763 (3/8 x 3/16)
NB 14	111.18 (4.38)	139.70 (5.50)	73.03 (2.875)	73.00 (2.874)	55.56 (2.19)	75.00	44.45 (1.75)	34.14 (1.34)	57.15 (2.25)	39.34 (1.55)	11.113 x 5.555 (7/16 x 7/32)
NB 16	111.18 (4.38)	139.70 (5.50)	82.55 (3.250)	85.52 (3.249)	55.56 (2.19)	75.00	44.45 (1.75)	36.50 (1.44)	57.15 (2.25)	39.67 (1.56)	11.113 x 5.555 (7/16 x 7/32)

Model	Bore dia. d (H7) mm	Bore dia. d (H7) inch	Torque Capacity (Tn) Nm (lb-ft)	Overrunning Inner Race RPM	Overrunning Outer Race RPM	Weight Kg (lb)
NB 10	**30** **32**	**1.125** **1.250**	881 (650)	1250	350	2.44 (5.38)
NB 12	**28** **38**	**1.375** **1.500**	1760 (1300)	1150	350	3.91 (8.62)
NB 14	**38** **45**	**1.625** **1.750**	1970 (1450)	950	250	6.32 (13.90)
NB 16	**50**	**1.875** **2.000**	2170 (1600)	950	250	6.35 (14.00)

Notes :

1) Function : Overrunning, Backstopping, Indexing
2) Tmax = 2 x Tn.
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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.
- **NB 3 - 10**

Dimensions/Design subject to modifications without any prior intimation.