

NMT Group and its **Associates** are a prime Group of engineering industries, functioning more than two decades, catering the needs of almost major industries with their **Product Range: FREEWHEEL (ONE WAY) CLUTCHES, KEYLESS TRANSMISSION ELEMENTS, TENSIONER NUT & BOLT, CAM FOLLOWERS (TRACK ROLL) ETC;**

Freewheel -oneway- Clutches (Unidirectional Couplings) leads to reduction in cost as compared with separately controlled other equipments/ attachments. No driving contact between inner and outer ring in one direction of rotation and there is driving contact between inner and outer ring in the other direction of rotation which transmit torque. **Three types of freewheels**, viz. 1. **Sprag** 1.1 standard, 1.2 Indexing, 1.3 Centrifugal lift off 2. **Roller**, 3. **Cam- Roller Combined**, used as **Overrunning Coupling, Indexing (feeding) & Backstopping clutch.**

Keyless Transmission Elements: Shrink fit connection of special variety. Versatile, high fatigue strength, even under alternating torsional stresses. Shaft/hub has no keyway, minimising notch effect. Most suitable for shaft hub connection. Easy mounting and removal, wear free, perfect alignment, easily adjustable, economical.. Shaft mounted gearing, gear wheels, chain sprockets, lever, cams, break drum and countless other applications. **Elements are available in models N7012, N7012.1, N7013.0, N7013.1, N7030, N7031, N7032, N7033, N7034, N7014, N7015, N7016, N8006, N250, N500 and Shrink Disc N4051, N4071, N 4091, Split type NS4051, NS4071, NS4091, NS1012, NS1022, NS1023, NS4021 & NS4023**

Tensioner Nuts / Tensioner Bolts: Tensioner Nut can be used instead of standard hexagonal nuts on stud OR bolt and **Tensioner Bolt** can be used instead of std. Hex. bolts for general mechanical connections- heavy OR medium duty. Bolt tension – clamping load – by tightening multi clamping screws with standard tool – torque wrench only.

Cam Followers / Stud Type Track Rollers : are with standard as well as eccentric stud, cage guided ready to fit. These are equiv. to **KR/CR/CF** & are used for heavy loads and medium speeds.

All NMT GROUP PRODUCTS have versatile functions and are extensively and economically used in all most all industries and have gripped the manufacturing industries as a whole.

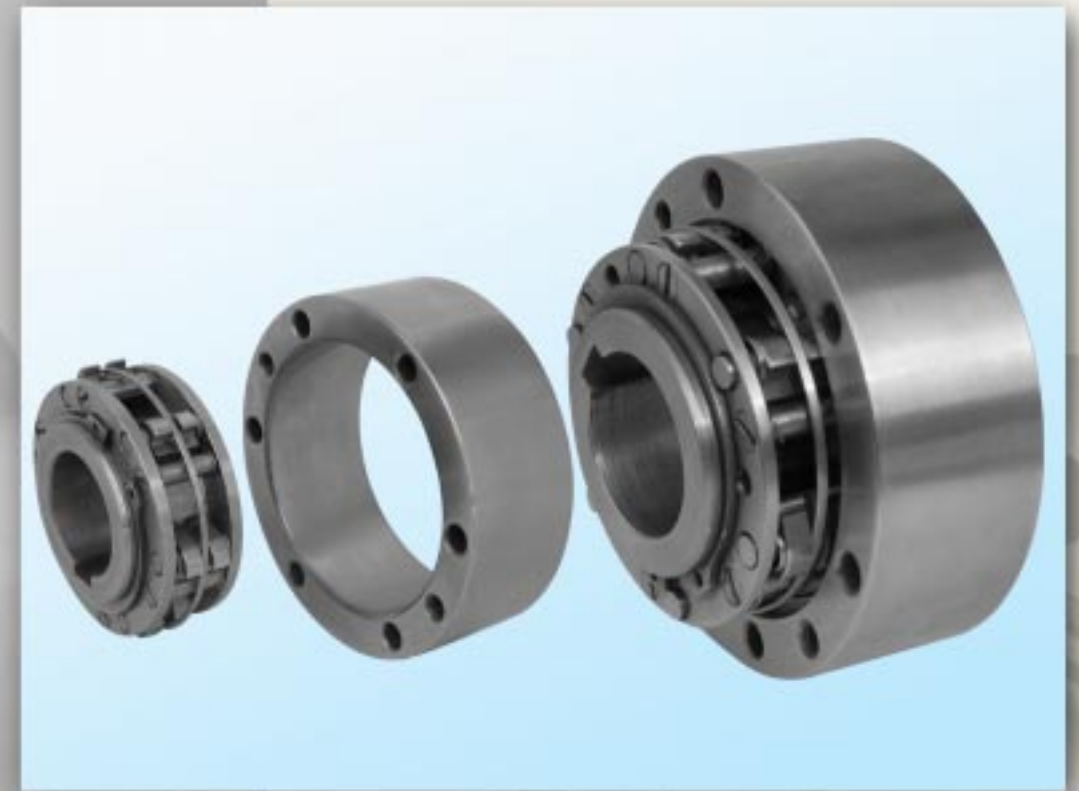
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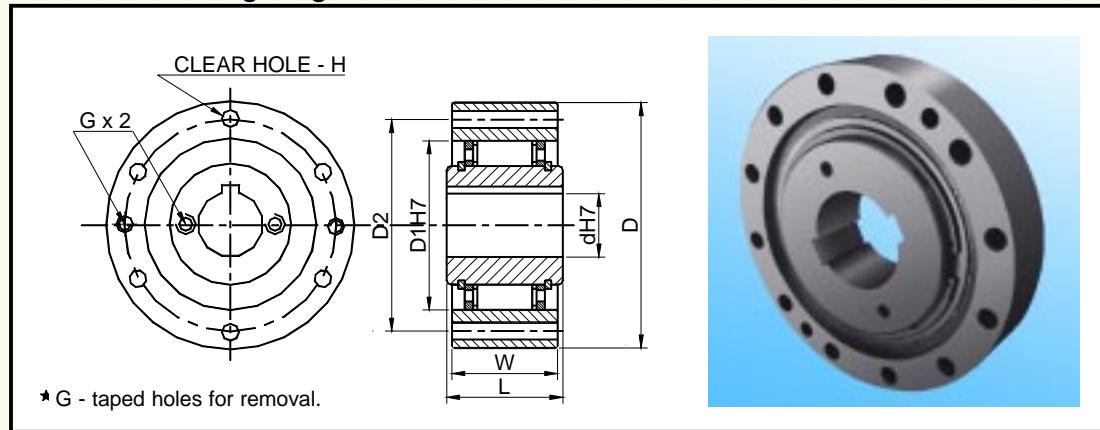
GROUP OF INDUSTRIES



HOLD BACK DEVICE

Hold Back Device - a versatile Product.

Generally, these units are used as overrunning clutches, where the shaft overruns at high speed. These units are having Individually spring loaded centrifugally lift off sprags, housed in a cage by means of pins connected with rotating inner ring having driving contact with outerring. When the lift off speed is reached the sprags automatically disengage completely from the contact surface of the outer ring and rotate contact free, hence sprags are wear free & having longlife.



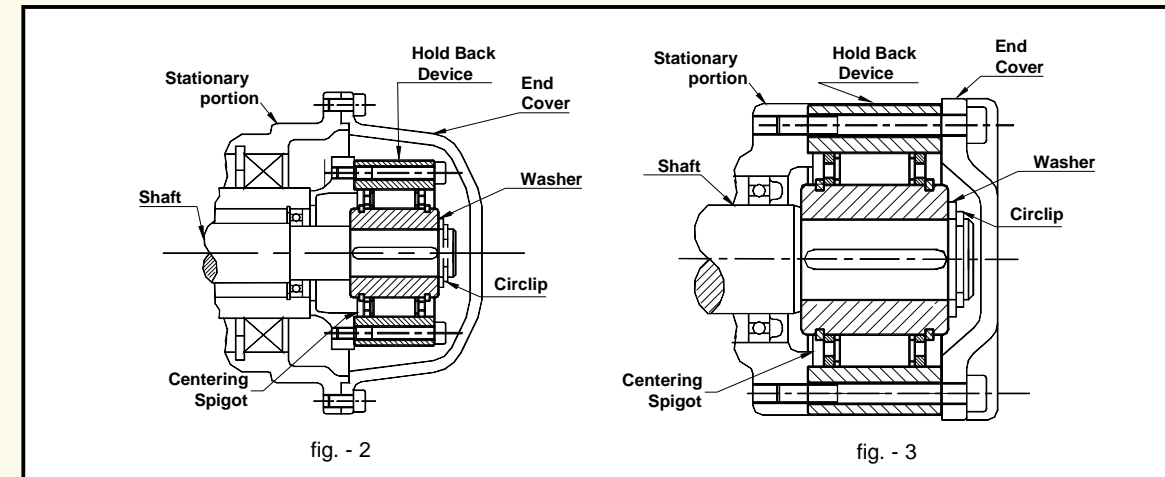
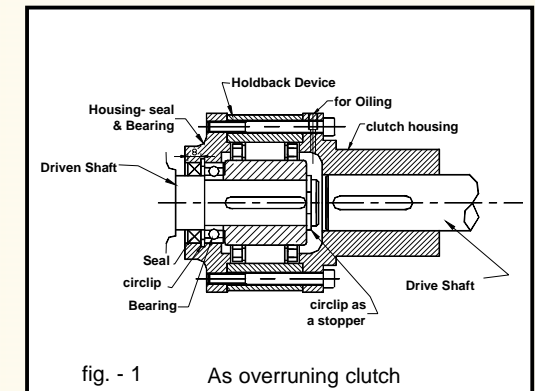
Code No.	dH7	D	L	W	D1	D2	Academic Torque Nm 0.0 concentricity	Torque Nm w.r.t. concentricity		Lift Off Speed (rpm)	Max. Speed (rpm)	H	
								0.1	0.2			Nos	Dia
NHB 20	20	90	35	35	66	78	150	140	130	860	5000	6	6.8
NHB 25	25	95	35	35	70	82	390	380	350	820	5000	6	6.8
NHB 30	30	105	35	35	75	87	480	470	420	750	5000	6	6.8
NHB 35	35	110	35	35	80	96	580	570	490	730	5000	8	6.8
NHB 40	40	120	35	35	90	108	420	410	370	750	5000	8	9
NHB 45	45	132	35	35	95	112	800	780	700	700	5000	8	9
NHB 50	50	150	40	40	110	132	1350	1300	1030	630	5000	8	9
NHB 60	60	175	60	50	125	155	1900	1900	1800	430	6000	8	11
NHB 70	70	190	60	50	140	165	2700	2600	2500	400	4500	12	11
NHB 80	80	210	70	60	160	185	6500	6300	5800	320	4000	12	11
NHB 90	90	230	80	70	180	206	7200	7000	6800	320	3500	12	13
NHB 95	95	245	80	70	180	218	8700	8500	7900	320	3000	12	13
NHB 100	100	270	90	80	210	240	15000	14000	12900	250	2700	12	17
NHB 120	120	290	90	80	210	258	20000	19000	16000	250	2700	12	17
NHB 140	140	310	90	80	240	278	26000	23000	20500	240	2100	12	17
NHB 185	185	400	105	80	310	360	31000	30500	30000	220	3000	12	21

Only Fitting/External dimensions can be made according to other equivalents,if required.

Other sizes on request. ★ Design subject to modifications. ★ All Dimensions are in m.m.

Installation

These units do not have bearings so to ensure faultless operations inner & outer ring have to be aligned properly concentric and square with reference to the shaft axis. For this, the inner dia "D1" of outer ring of Hold Back Device is to be firmly fitted on centering spigot of stationary part of machine / gearbox. It is advisable that inner dia "D1" should not be kept dry but be cleaned & slightly oiled. Spigot is to be machined perfectly square with reference to shaft axis and dia "D1" within "h7" limit. The height of spigot is to be kept such, as that the centering spigot **must touch NO WHERE** to the cage portion.



To insert inner ring with sprag cage assembly, keep sprags in disengaged position by means of thin flexible wire ring OR any stretchable ring, slightly turn in freewheeling direction during entering in outer ring. While 1/3 portion of all sprags enter in the outer ring, remove wire OR stretchable ring and insert total sprag cage assembly.

Lubrication :

Normally, these units are running in disengaged position, lubrication is required to protect against corrosion only and most probably this is covered by oil immersed lubrication, in gear boxes & other machines. Where application differs, (fig.3) we suggest to fill 1/3 portion of unit by low viscosity hydraulic oil.

Before putting into operation proper lubricant should be provided.