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HOLD BACK DEVICE



Wiperdrive are 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 NUTS, SPEED VARIATIORS, 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 rotations and there is driving contact between inner and outer ring in the direction of rotation which transmit torque. Three type 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, minimizing 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 application. Elements are available in modesl N7012, N7012.1, N7013.0, N7013.1, N7014, N7015, N7016, N8006, N250, N500 and Shrink Disc N4071, N4091 & split type NS4051, NS4071, NS4091.

connections-heavy Or medium duty. Bolt tension-clamping load-by tightening multi clamping screws with standard tool-torque wrench only.

Variable Speed Units: are compact in construction much useful and advantageous where infinitely variable

speed drive is required. Speed variation by hand wheel / by other mechanism in lace of hand wheel / by other mechanism in place of hand wheel. Gives out put ratio 6:1 Input power 0.25 to 2.2K.W. Out put speed

Tensioner Nuts: can be instead of standard hexagonal nuts on stud OR bolt for general mechanical

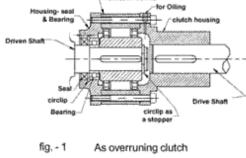
1.5 to 1700 RPM.Cam Followers / Stud Type Track Rollers / Track Rollers : are with standard as well as eccentric stud,

All Wiperdrive PRODUCTS have versatile functions and are extensively and economically used in all most

all industries and have gripped the manufacturing industries as a whole

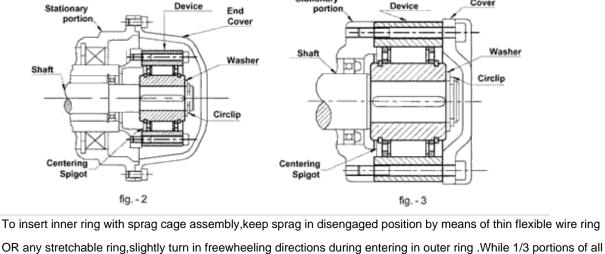
Hold Back

cage guided ready to fit. These are equiv. To KR/CR/CF & are used for heavy loads and medium speeds.



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 stationery 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 machine perfectly square with reference to shaft axis and dia "D1" within "h7" limit.The height of spigot is to be keept such ,as that the centering spigot must touch NOWHERE to th ecage portion.

These units do not have bearings so to ensure fault-less operations



sprags enter in the puter 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 corrosions only and

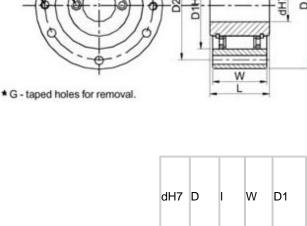
most probably this is covered by oil immersed lubrications,in gear boxes & other machines. Where applications differ, (fig.3) we suggest to fill 1/3 portion of unit by low viscosity hydraulic oil.

Before putting into operations proper lubrication should be provided. Hold Back Device-a versatile Products -equiv .to

FXM,RS/BI,CLS seriesNormally ,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.

CLEAR HOLE - H





							(rpm)	Nos	Dia
20	90	35	35	66	78	120	800	6	6.8
25	95	35	35	70	82	180	750	6	6.8
30	100	35	35	75	87	250	700	6	6.8
35	110	35	35	80	96	300	625	8	6.8
40	125	35	35	90	108	450	580	8	9
45	130	35	35	95	112	500	550	8	9
50	150	40	40	110	132	800	500	8	9
60	175	60	50	125	155	1200	450	8	11
70	190	60	50	140	165	2000	450	12	11
80	210	70	60	160	185	3000	430	12	11
90	230	80	70	180	206	3300	400	12	13
95	245	80	70	180	218	4200	400	12	13
100	270	90	80	210	240	5800	350	12	17
120	290	90	80	210	258	9000	350	12	17
140	310	90	80	240	278	12200	300	12	17
185	400	105	80	310	360	16500	290	12	21
190	420	105	80	330	380	20000	275	12	21
220	260	105	80	360	410	27000	250	16	21

Only Fitting/External dimensions can be made according to other equivalents,if required Other sizes on Design subject to

request modifications All Dimensions are in m.m.

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