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Technical Parameter of FXN

Internal Freewheels FXN

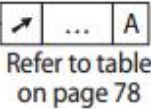
for press fit on the outer ring with sprag lift-off X

Features

Internal Freewheels FXN are sprag freewheels without bearing support and with sprag lift-off X. The sprag lift-off X ensures a wear-free free-wheeling operation when the inner ring rotates at high speed. The outer ring is pressed into the customer housing. This makes compact, space-saving fitting solutions possible. The freewheels FXN are used as:

Backstops

Overrunning Clutches



Freewheel size	Type	Torque Nm	Inner ring Overrun	Bore d Standard						max. mm	B mm	D mm	F mm	J mm	K _{min.} mm	L mm	Weight kg
				mm	mm	mm	mm	mm	mm								

FXN31 - 17/60	NX	110	5000	20*						20*	25	60 P6	55	31	85	24	0,3
FXN31 - 17/62	NX	110	5000	20*						20*	25	62 P6	55	31	85	24	0,4
FXN38 - 17/70	NX	180	5000	25*						25*	25	70 P6	62	38	90	24	0,4
FXN46 - 25/80	NX	460	5000	25						30	35	80 P6	70	46	95	35	0,8
FXN51 - 25/85	NX	560	5000	25	30	35				36	35	85 P6	75	51	105	35	0,8
FXN56 - 25/90	NX	660	5000	35						40	35	90 P6	80	56	110	35	0,9
FXN61 - 19/95	NX	520	5000	30	35	40				45*	26	95 P6	85	61	120	25	0,8
FXN61 - 19/106	NX	520	5000	30	35	40				45*	25	106 H7	85	61	120	25	1,2
FXN66 - 25/100	NX	950	5000	35	40	45				48*	30	100 P6	90	66	132	35	1,1
FXN66 - 25/110	NX	950	5000	35	40	45				48*	40	110 P6	90	66	132	35	1,8
FXN76 - 25/115	NX	1200	5000	45	55					60*	40	115 P6	100	76	140	35	1,7
FXN76 - 25/120	NX	1200	5000	45	55					60*	32	120 J6	100	76	140	35	1,8
FXN86 - 25/125	NX	1600	5000	40	45	50	60	65		70*	40	125 P6	110	86	150	40	2,3
FXN86 - 25/130	NX	1600	5000	40	45	50	60	65		70*	40	130 P6	110	86	150	40	2,6
FXN 101 - 25/140	NX	2100	5000	55	70					75	45	140 P6	125	101	175	50	3,1
FXN 101 - 25/149	NX	2100	5000	70						75	62	149 H6	125	101	175	62	4,2
FXN 101 - 25/150	NX	2100	5000	55	70					75	45	150 P6	125	101	175	50	3,6
FXN 85 - 40/140	MX	2500	6000	45	50	60	65			65	45	140 P6	125	85	175	60	3,2
FXN 85 - 40/150	MX	2500	6000	45	50	60	65			65	45	150 P6	125	85	175	60	4,2
FXN 100 - 40/160	MX	3700	4500	45	50	55	60	70	75	75	50	160 P6	140	100	190	60	5,1
FXN 105 - 50/165	MX	5200	4500	80						80	62	165 P6	145	105	195	62	5,8
FXN 120 - 50/198	MX	7700	4000	60	65	70	75	80	95	95	70	198 H6	160	120	210	70	8,6
FXN 140 - 50/215	MX	10100	3000	65	90	100	110			110	69	215 J6	180	140	245	70	14,0
FXN 170 - 63/258	MX	20500	2700	70	85	100	120			130	80	258 H6	210	170	290	80	21,0

Application example

Internal Freewheel FXN 38 - 17/70 NX as a backstop, arranged in a housing adapter to attach to an electric motor. The thin outer ring that is pressed into the housing enables a space-efficient fitting solution. Due to the high shaft speeds in normal operation (freewheeling operation), the sprag lift-off X ensures a contactless and hence wear-free continuous operation.

Mounting

Internal Freewheels FXN are without bearing support. Concentric alignment of inner and outer ring must be provided by the customer. The permissible run out (T.I.R.) must be observed. The torque is transmitted on the outer ring by press fit. In order to transmit the torques specified in the table, the outer ring must be accommodated in a housing with an external diameter K. The housing is made of steel or grey cast iron in minimum quality GG-20. When using other housing materials or smaller external diameters, we urge you to contact us regarding the transmissible torque. The tolerance of the housing bore is specified in the table under dimension D. The tolerance of the shaft must be ISO h6 or j6.

Lubrication

At speeds in excess of the sprag lift-off speed, no special lubrication is required; the freewheel functions maintenance-free. When operating below the sprag lift-off speed, an oil lubrication of the specified quality must be provided.

Picture

