

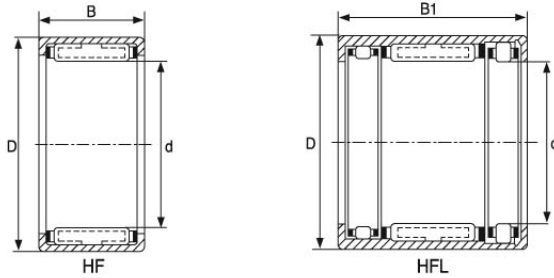
12.1 General types

Bearing Classification		Bearing No.	Drawings
Drawn Cup Needle Roller Bearings	Caged Type	HK BK HK..RS HK..2RS BK..RS	 HK BK HK..RS HK..2RS BK..RS
	Full Complement Type	FFH MF MFH FY MFY	 F FH MF MFH FY MFY
Radial Needle and Cage Assemblies		K/KS K/KKS KZK KBK KNL	 K/KS KK/KKS KZK KBK
Needle Roller Bearings	With Ribs	NK NKS RNA49 RNA48	 NK NKS RNA49 RNA48
		NKI NKIS NA 49 RA 48	
		RNA 69	 RNA69 RNA49..2RS RNA49..RS NA..2RS
		RNA69..RS RNA49..2RS NA49..RS NA..2RS	
	Without Ribs	RNAO NAO	 RNAO NAO
Aligning	RNAV PNA	 PRNA PNA	
	Full Complement	RNAV NAV	 RNAV NAV
Needle Roller		Dw* Lw PDw* Lw	 DW* LW PDW* LW
Yoke Type Track Roller	Without Axial Guidance	RSTO RSTO..X STO STO..X	 RSTO STO RSTO..X STO..X
		RNA22..2RS RNA22..2RSX NA22..2RS NA22..2RSX	 RNA22..2RS NA22..2RS RNA22..2RSX NA22..2RSX
	With Axial Guidance	NATR NATR..PP NATV NATV..PP NUTR NUTR..X	 NATR NATV NATR..PP NATV..PP NUTR NUTR..X

12.1 General types

Bearing Classification		Bearing No.	Drawings
Stud Type Track Rollers	With Axial Guidance	KR KRE KR..PP KRE..PP	
		KRV KRVE KRV..PP KRVE..PP	
		NUKR NUKRE	
Combined Radial Axial Bearings	Needle Roller Angular Contact Ball	NKIA	
		NKIB	
	Needle Roller Axial Cylindrical Roller	ZARN	
		ZARN..L	
		NARF	
		NARF..L	
		NKXR	
		NKXR..Z	
	Needle Roller Axial Ball	NX	
		NX..Z	
NKX			
NKX..X			
Inner Ring		IR LR	
Axial Bearings	Axial Needle Roller And Cage Assembly	AXK AXW	
	Axial Cylindrical Roller And Cage Assembly	K 811 K 812 K 893 K 874 K 894	
Axial Bearing Washers	Shaft Locating Washers	AS WS 811	
	Housing Locating Washers	GS 811	
	Bearing Washers	LS	
	Center Washers	ZS	

12.2 Miniature One-way Clutch Bearings



Dimension (mm)			Bearing Number	Limiting Speed		Load rating	Interchange	
d	D	B		N	NA *	Torgue	INA	TOR
				rpm	rpm	Nm		
HF								
4	8	6	HF 0406	27200	11200	0.27	HF 0406	FC-4
6	10	12	HF 0612	18400	10400	1.41	HF 0612	FCS-6
8	12	12	HF 0812	13600	1600	2.52	HF 0812	-
10	14	12	HF 0409	11200	8800	4.24	HF 0409	FCL-10K

Dimension (mm)			Bearing Number	Limiting Speed		Load rating	Interchange	
d	D	B1		N	NA*	Torgue	INA	TOR
				rpm	rpm	Nm		
HFL								
8	12	22	HFL 0822	13600	9600	2.52	HFL 0822	FCBL-BK
10	14	22	HFL 1022	11200	8800	4.24	HFL 1022	-

* NA : Rotating outer ring speed.

Mounting Tolerances

Series		Bore		Shaft
		Housing Material		
		Steel Cast iron	Light metal	
HF..KF HFL..KF	Plastic springs	N7	R7	h8

Note: Above sizes come with plastic springs

Material

Drawn cup outer ring is made of ST14 [ASTM 366], needle rollers of GCr15 [SAE 52100] and spring [in most cases] & cage of Nylon PA 66.

Operating temperature range: -10 °C to 70 °C

Please check with us availability of steel spring.