



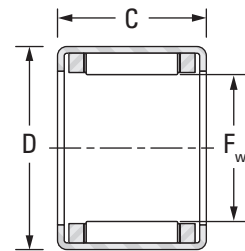
DRAWN CUP ROLLER CLUTCHES

INCH SERIES

- For proper application, separate bearings are suggested (adjacent to clutch) to carry radial loads and assure concentricity between shaft and housing.
- The clutch engages when housing is rotated relative to the shaft in direction of arrow marking (← LOCK), as labeled on cup.
- Proper inspection requires use of ring gage and bore plug gage(s). See the inspection section on page B-3-9.
- Full details on installation are given on page B-3-8.
- Shaft raceway and housing bore diameters that are necessary for proper mounting and operation are listed on the opposite page.
- Type RC clutches have springs integrally molded with the cage to position the rollers for lockup.



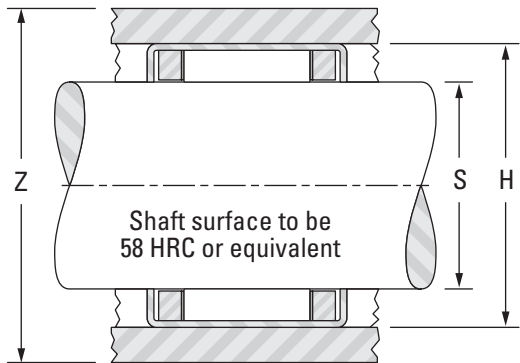
The mounted clutch engages when the housing is rotated relative to the shaft in the direction of the arrow marking (← LOCK) stamped on the cup.



RC and RC-FS

Shaft Diameter	F _w	D	C	Clutch Designations		Torque Rating	Minimum O.D. of Steel Housing for Rated Torque	Overrun Limiting Speed Rating for Rotating Shaft ⁽¹⁾
							Z	
				With Stainless Steel Springs	With Integral Springs			
mm in	mm in	mm in	mm in			N-m lbs-in		min ⁻¹
3.175 0.1250	3.18 0.125	7.14 0.281	6.35 0.250	—	RC-02	0.323 2.86	11.2 0.44	34000
6.350 0.2500	6.35 0.250	11.13 0.438	12.70 0.500	RC-040708-FS ⁽²⁾	RC-040708	1.94 17.2	15.7 0.62	20000
9.525 0.3750	9.53 0.375	15.88 0.625	12.70 0.500	RC-061008-FS ⁽²⁾	RC-061008	5.45 48.2	22.4 0.88	18000
12.700 0.5000	12.70 0.500	19.05 0.750	12.70 0.500	RC-081208-FS ⁽²⁾	RC-081208	8.85 78.3	27.9 1.10	17000
15.875 0.6250	15.88 0.625	22.23 0.875	15.88 0.625	RC-101410-FS ⁽²⁾	RC-101410	16.8 149	30.5 1.20	14000
19.050 0.7500	19.05 0.750	25.40 1.000	15.88 0.625	RC-121610-FS ⁽²⁾	RC-121610	23.3 206	35.6 1.40	12000
25.400 1.0000	25.40 1.000	33.35 1.313	15.88 0.625	RC-162110-FS ⁽²⁾	RC-162110	49.6 439	48.3 1.90	8700

⁽¹⁾ Indicates the number of relative rotations allowed when the shaft idles.
⁽²⁾ Suffix “-FS” is not always stamped on the clutch cup. Type RC-FS with stainless steel springs are always readily identified by RED clutch cage.
⁽³⁾ See pages B-2-60 to B-2-63 for other suitable bearing types and sizes.



Suitable Drawn Cup Bearing ⁽³⁾	Gaging			Mounting				Approx. Wt.
				Shaft Raceway Diameter		Housing Bore		
	Ring Gage	Clutch Locking Plug	Clutch Overrun Plug	S		H		
				Max.	Min.	Max.	Min.	
	mm in	mm in	mm in	mm in	mm in	mm in	mm in	kg lbs
—	7.155 0.2817	3.160 0.1244	3.195 0.1258	3.175 0.1250	3.167 0.1247	7.155 0.2817	7.142 0.2812	0.001 0.002
J-45	11.125 0.4380	6.337 0.2495	6.383 0.2513	6.350 0.2500	6.337 0.2495	11.125 0.4380	11.100 0.4370	0.004 0.008
JH-68	15.888 0.6255	9.512 0.3745	9.558 0.3763	9.525 0.3750	9.512 0.3745	15.888 0.6255	15.862 0.6245	0.008 0.017
JH-87	19.063 0.7505	12.687 0.4995	12.733 0.5013	12.700 0.5000	12.687 0.4995	19.063 0.7505	19.037 0.7495	0.009 0.020
JH-1010	22.238 0.8755	15.862 0.6245	15.908 0.6263	15.875 0.6250	15.862 0.6245	22.238 0.8755	22.212 0.8745	0.014 0.030
J-126	25.387 0.9995	19.012 0.7485	19.058 0.7503	19.050 0.7500	19.037 0.7495	25.413 1.0005	25.387 0.9995	0.015 0.034
JH-1612	33.325 1.3120	25.362 0.9985	25.408 1.0003	25.400 1.0000	25.387 0.9995	33.350 1.3130	33.325 1.3120	0.026 0.058



DRAWN CUP ROLLER CLUTCH
AND BEARING ASSEMBLIES

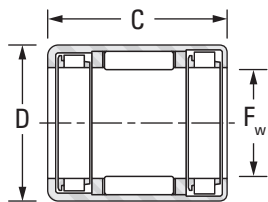
INCH SERIES

- Clutch and bearing assembly engages when the housing is rotated relative to shaft in direction of arrow marking (← LOCK), as labeled on cup.
- Shaft raceway and housing bore diameters that are necessary for proper mounting and operation are listed on the opposite page.
- Proper inspection requires use of ring gage and bore plug gage(s). See the inspection section on page B-3-9.
- Full details on installation are given on page B-3-8.

- Type RCB clutch and bearing assemblies have springs integrally molded with the cage to position the rollers for lockup.
- Type RCB-FS clutch and bearing assemblies have stainless steel springs inserted into the molded cage to position the rollers for lockup.



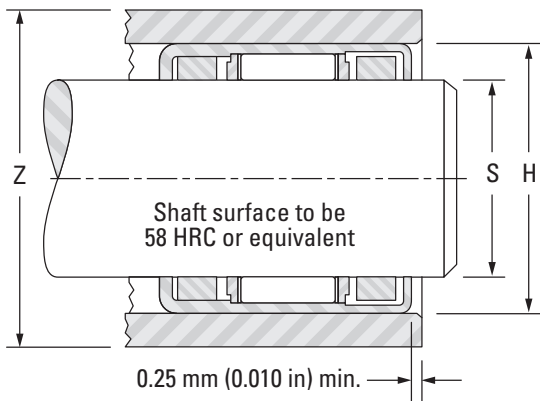
The mounted clutch and bearing assembly engages when the housing is rotated relative to the shaft in the direction of the arrow marking (← LOCK) stamped on the cup.



RCB and RCB-FS

Shaft Diameter	F _w	D	C	Clutch and Bearing Designations		Torque Rating	Minimum O.D. of Steel Housing for Rated Torque	Load Ratings ⁽²⁾		Fatigue Load Limit C _u
								Dynamic	Static	
			-0.25 mm -0.010 in	With Stainless Steel Springs	With Integral Springs			Z	C	C ₀
mm in	mm in	mm in	mm in			N-m lbf-in			kN lbf	kN
9.525 0.3750	9.53 0.375	15.88 0.625	22.23 0.875	RCB-061014-FS ⁽¹⁾	RCB-061014	5.45 48.2	22.4 0.88	6.01 1350	4.89 1100	0.800
12.700 0.5000	12.70 0.500	19.05 0.750	22.23 0.875	RCB-081214-FS ⁽¹⁾	RCB-081214	8.85 78.3	27.9 1.1	7.12 1600	6.49 1460	1.05
15.875 0.6250	15.88 0.625	22.23 0.875	25.40 1.000	RCB-101416-FS ⁽¹⁾	RCB-101416	16.8 149	30.5 1.2	8.05 1810	8.14 1830	1.35
19.050 0.7500	19.05 0.750	25.40 1.000	25.40 1.000	RCB-121616-FS ⁽¹⁾	RCB-121616	23.3 206	35.6 1.4	8.90 2000	9.79 2200	1.60
25.400 1.0000	25.40 1.000	33.35 1.313	27.00 1.063	RCB-162117-FS ⁽¹⁾	RCB-162117	49.6 439	48.3 1.9	15.4 3460	17.6 3960	2.85

⁽¹⁾ Suffix “-FS” is not always stamped on the clutch cup. Type RC-FS with stainless steel springs are always readily identified by RED clutch cage.
⁽²⁾ Load ratings are based on a minimum raceway hardness of 58 HRC or equivalent.
⁽³⁾ Indicates the number of relative rotations allowed when the shaft idles.



Overrun Limiting Speed Rating for Rotating Shaft ⁽³⁾	Gaging				Mounting				Approx. Wt.
					Shaft Raceway Diameter		Housing Bore		
	Ring Gage	Clutch Locking Plug	Clutch Overrun and Bearing Go Plug	Bearing No Go Plug					
					Max.	Min.	Max.	Min.	
min ⁻¹	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	kg lbs
18000	15.888 0.6255	9.512 0.3745	9.553 0.3761	9.589 0.3775	9.525 0.3750	9.512 0.3745	15.888 0.6255	15.862 0.6245	0.014 0.030
17000	19.063 0.7505	12.687 0.4995	12.728 0.5011	12.764 0.5025	12.700 0.5000	12.687 0.4995	19.063 0.7505	19.037 0.7495	0.016 0.036
14000	22.238 0.8755	15.862 0.6245	15.903 0.6261	15.939 0.6275	15.875 0.6250	15.862 0.6245	22.238 0.8755	22.212 0.8745	0.023 0.050
12000	25.387 0.9995	19.012 0.7485	19.053 0.7501	19.088 0.7515	19.050 0.7500	19.037 0.7495	25.413 1.0005	25.387 0.9995	0.026 0.057
8700	33.325 1.3120	25.362 0.9985	25.403 1.0001	25.438 1.0015	25.400 1.0000	25.387 0.9995	33.350 1.3130	33.325 1.3120	0.045 0.100