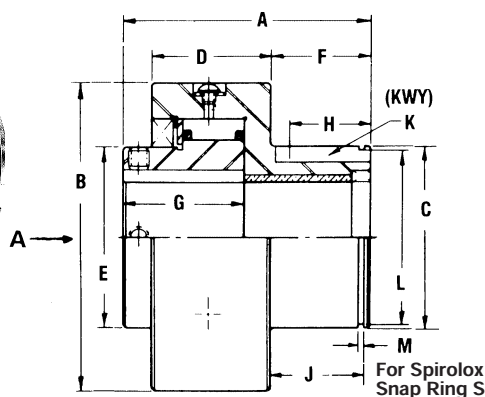
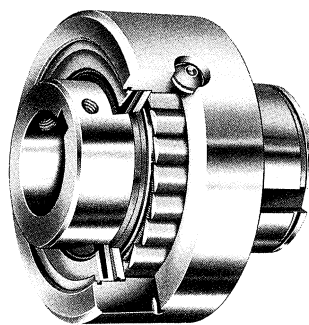


Types PB & HT Sprag Clutches



PB Sprag Clutches feature precision formed sprags for maximum torque capacities combined with long life. The clutches have an outer race designed to simply attach sprockets, gears or pulleys with a plain bearing to support high radial loads. They are pre-lubricated with grease suitable for temp range -10 to +50°C. Oil lubricated clutches can also be supplied to order (except PB3A). These clutches are suitable for general purpose overrunning and indexing applications.



Dimensions

Model No. ⁽¹⁾	Nominal Torque Nm ⁽²⁾	Max Overrun rpm		Bore Sizes ins ⁽³⁾		Dimensions mm													Snap Ring S Ref	Weight kg
		Inner	Outer	Bore	Keyway	A	B	C	D	E	F	G	H	J	K	L	M			
PB-3A	54	1800	900	.375 .500	1/8x1/16 Roll Pin	47.63	50.80	22.23 22.20	19.84	21.43	20.64	23.81	12.70	18.16 18.29	1/8x1/16	21.21 21.36	0.92 1.42	RS 87	.34	
PB-5A	149	1800	900	.500 .625	1/8x1/16 3/16x3/32	69.85	50.80	31.75 31.73	31.75	25.40	25.40	39.69	17.46	22.86 22.99	3/16x3/32	30.63 30.43	1.22 1.73	RS125	.80	
PB-6A	406	1800	800	.750	3/16x3/32	82.25	73.03	34.93 34.90	39.69	34.93	33.34	41.28	25.40	30.86 30.99	3/16x3/32	33.71 33.50	1.22 1.73	RS137	1.60	
PB-8A	610	1600	650	.875 1.000	3/16x3/32 1/4x1/8	90.48	82.55	44.45 44.43	42.86	41.28	36.51	44.45	26.99	33.40 33.53	1/4x1/8	43.08 42.82	1.42 1.93	RS175	1.70	
PB-10A	915	1200	400	1.125 1.250	1/4x1/8	88.90	95.25	57.15 57.13	43.66	50.81	36.51	42.86	26.99	34.04 34.16	5/16x5/32	55.42 55.12	1.42 1.93	RS225	2.73	
PB-12A	1830	1200	300	1.375 1.500	5/16x5/32 3/8x3/16	98.43	112.71	63.50 63.48	47.63	60.33	36.51	52.39	28.58	33.30 33.55	3/8x3/16	60.73 60.43	3.05 3.30	RS250	3.86	
PB-14A	2169	950	300	1.625 1.750	3/8x3/16	111.13	139.70	73.03 73.00	53.98	76.20	44.45	50.80	34.93	41.28 41.40	7/16x7/32	70.79 70.49	1.42 1.93	RS285	6.69	
PB-16A	2440	950	300	1.875 2.000	1/2x1/4	113.13	139.70	82.55 82.53	53.98	82.55	44.45	53.98	36.51	41.91 42.04	1/2x1/4	80.16 79.86	1.73 2.24	RS325	6.80	

(1) When ordering specify bore size and direction.

Viewed from direction "A" clutch suffix "L" - inner race drives CCW
"R" - inner race drives CW

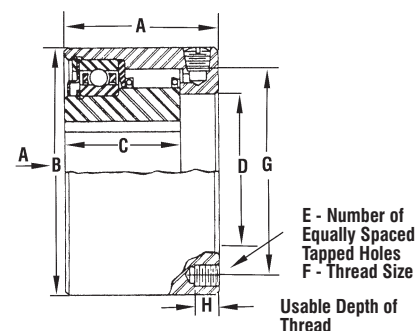
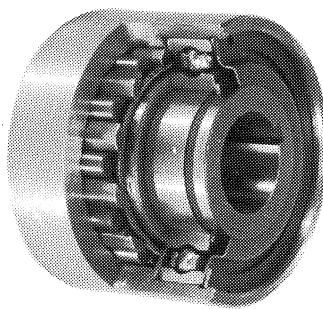
(2) Maximum torque for short periods 1.5x Nominal torque.

(3) Metric Bore clutches are available to order. Sizes PB5-PB16.

Bold print indicates preferred imperial sizes.

HT Sprag Clutches are designed for end of shaft applications, being retained on the shaft by a deep groove ball bearing with snap ring in outer race locating in recess dia. D.

The outer race of the clutch is tapped for attaching sprocket, gear or ratchet arm. Intended primarily for indexing applications, the clutches can also be used for backstop and overrun applications providing the inner race is overrunning.



Model No. ⁽¹⁾	Nom Torque Nm	Drag Torque Nm	Max Shaft rpm	Std Bores (ins)		Dimensions mm						Tapped Holes		Snap Ring Brg*		App Wt kg
				Bore	Keyway	A	B	C	D	G	H	No.	U.N.F.	Ref	Bore	
HT-10	57	0.3	1600	0.625	3/16x3/32	54.0	60.3	39.7	30.00/30.01	47.62	9.5	4	1/4-28	6200N	10	1.2
HT-20	209	0.4	1200	1.125 1.250 1.312	1/4x1/8 1/4x1/8 5/16x5/32	57.9	90.5	42.9	51.99/52.01	69.85	9.5	4	5/16-24	6304N 6205N	20 25	2.3
HT-30	597	0.5	900	1.500 1.750 1.937 2.000	3/8x3/16 3/8x3/16 1/2x1/4 1/2x1/4	69.9	114.3	52.4	71.99/72.01	95.25	11.9	6	3/8-24	6306N 6207N	30 35	5.0

(1) When ordering specify bore size and direction.

Viewed from direction "A" clutch suffix "L" - inner race drives CCW
"R" - inner race drives CW

*Before installation a snap-ring ball bearing must be inserted in the counterbored end complete with a gasket or seal to retain the lubricant. Snap-ring ball bearing not supplied with clutch.

Always apply pressure on the inner race when installing. It is important that the clutch fits snug on the shaft and has proper fitting keys.

HT series clutches are lightly lubricated prior to despatch as an anti-corrosive measure, and must be fully lubricated after the snap-ring ball bearing has been incorporated. Use Type A automatic transmission fluid. Fill until oil runs out between hub and end cap.

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