

The NSS Series clutch is available in 12 sizes and is designed with the same overall dimensions as a standard light metric series ball bearing(6200 Series). The inner race offers a key seat and the outer race press fits into the housing. The clutch is furnished with protective oil and must be lubricated before operating. These clutches do not have bearings to support radial force, so additional bearing support is required. The NSS Series clutch is excellent for applications where space is restricted, and is suitable for overrunning.



**LUBRICATION**

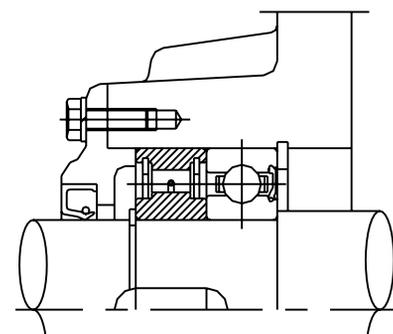
1. Oil lubrication is recommended.
2. Do not use greases or lubricants with EP additives.

MODEL	TORQUE CAPACITY		MAX. OVERRUNNING SPEED		DRAG TORQUE		BORE SIZE H7 I.D.				KEYWAY		A WIDTH	
	LB - FT	N-M	INNER RACE R/MIN	OUTER RACE R/MIN	LB - FT	N-M	INCH	INCH	MM	MM	INCH	MM	INCH	MM
NSS 8	4.94	6.7	6,000	3,000	0.004	0.005	0.3	+0.0006 0.0000	8	+0.015 0.000	0.08 x 0.04	2 X 1.0	0.3	8
NSS10	8.85	12.0	4,500	2,300	0.005	0.007	0.4	+0.0006 0.0000	10	+0.015 0.000	0.12 x 0.06	3 X 1.4	0.4	9
NSS12	12.54	17.0	4,000	2,000	0.007	0.009	0.4	+0.0007 0.0000	12	+0.018 0.000	0.16 x 0.07	4 X 1.8	0.4	10
NSS15	16.23	22.0	3,500	1,800	0.007	0.010	0.6	+0.0007 0.0000	15	+0.018 0.000	0.20 x 0.05	5 X 1.2	0.4	11
NSS20	30.24	41.0	2,600	1,300	0.007	0.010	0.8	+0.0008 0.0000	20	+0.021 0.000	0.24 x 0.06	6 X 1.6	0.6	14
NSS25	41.30	56.0	2,200	1,100	0.015	0.020	1.0	+0.0008 0.0000	25	+0.021 0.000	0.32 x 0.08	8 X 2.0	0.6	15
NSS30	77.44	105.0	1,800	900	0.022	0.030	1.2	+0.0008 0.0000	30	+0.021 0.000	0.35 x 0.08	8 X 2.0	0.6	16
NSS35	100.31	136.0	1,600	800	0.022	0.030	1.4	+0.0010 0.0000	35	+0.025 0.000	0.39 x 0.10	10 X 2.4	0.7	17
NSS40	218.32	296.0	1,400	700	0.133	0.180	1.6	+0.0010 0.0000	40	+0.025 0.000	0.47 x 0.09	12 X 2.2	0.7	18
NSS45	255.93	347.0	1,300	650	0.155	0.210	1.8	+0.0010 0.0000	45	+0.025 0.000	0.55 x 0.08	14 X 2.1	0.7	19
NSS50	297.24	403.0	1,200	600	0.162	0.220	1.8	+0.0010 0.0000	50	+0.025 0.000	0.55 x 0.08	14 X 2.1	0.8	20
NSS60	478.68	649.0	910	460	0.243	0.330	2.4	+0.0012 0.0000	60	+0.030 0.000	0.71 x 0.09	18 X 2.3	0.9	22

A typical application is NSS unit as an overrunning clutch on a roller conveyor to allow the rollers to continue to rotate after the drive has been stopped or is in excess of the driving speed. NSS series clutches must be provided with additional bearing to take up axial and radial loads.

**INSTALLATION AND USAGE**

1. The NSS series cam clutch is designed for press fit installation. Correct interference dimensions must be maintained to obtain maximum clutch performance.



**FEATURES**

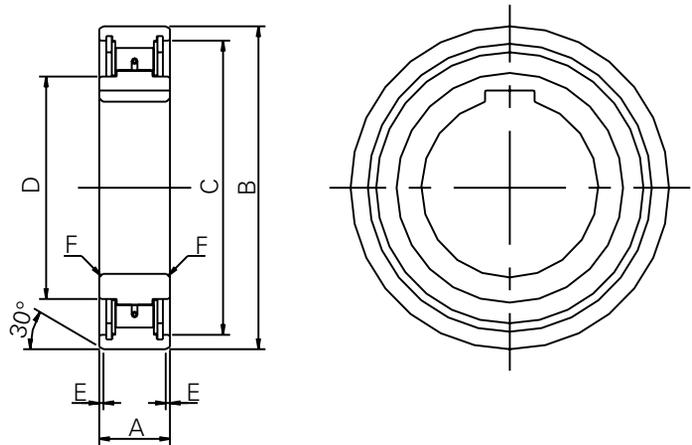
- Sprag type one way clutch
- High torque and longer life than roller ramp clutches
- Full metric design
- Overrunning speed is higher than roller ramp clutches

**INDUSTRIES SERVED**

- Food and beverage
- Gearing
- Printing
- Textile

**FIELD APPLICATIONS**

- Exercise equipment
- Food processing equipment
- Printing presses
- Roll conveyors



MODEL	B (O.D)		C		D OUTER DIMENSION OF INNER RACE		E		F		WEIGHT	
	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	LB	G
NSS 8	0.9	24	0.87	22.2	0.45	11.4	0.02	0.6	0.02	0.6	0.0	14
NSS10	1.2	30	1.06	27.0	0.61	15.6	0.02	0.6	0.02	0.6	0.1	27
NSS12	1.3	32	1.16	29.5	0.71	18.0	0.02	0.6	0.02	0.6	0.1	31
NSS15	1.4	35	1.26	32.0	0.81	20.6	0.02	0.6	0.02	0.6	0.1	39
NSS20	1.9	47	1.57	40.0	1.05	26.7	0.03	0.8	0.03	0.8	0.3	115
NSS25	2.0	52	1.77	45.0	1.26	32.0	0.03	0.8	0.03	0.8	0.3	140
NSS30	2.4	62	2.17	55.0	1.57	40.0	0.03	0.8	0.04	1.0	0.5	215
NSS35	2.8	72	2.48	63.0	1.77	45.0	0.03	0.8	0.04	1.0	0.7	300
NSS40	3.1	80	2.83	72.0	1.97	50.0	0.03	0.8	0.04	1.0	0.9	425
NSS45	3.3	85	2.97	75.5	2.24	57.0	0.05	1.2	0.04	1.0	1.1	495
NSS50	3.5	90	3.23	82.0	2.44	62.0	0.05	1.2	0.04	1.0	1.2	545
NSS60	4.3	110	3.94	100.0	3.15	80.0	0.05	1.2	0.06	1.5	2.1	950

**INSTALLATION AND USAGE (CONTINUED)**

2. Make sure the housing has enough strength to withstand the pressure required for the press fitting installation of the clutch.
3. The internal diameter of the housing should meet the H7 tolerance.
4. When installing the clutch, mount it with a type 62 bearing to avoid radical force, since this clutch does not have any bearings inside.
5. Confirm the direction of rotation before installation.
6. The recommended shaft tolerance is H7, and the key profile should be in accordance with the following standard.
7. NSS-8 – 12.....DIN 6885. 1
8. NSS-15 - 60 .....DIN 6885. 3
9. Suitable surface pressure of the key should be selected according to your company design standards.

For selection assistance, call Application Engineering at 1-800-626-2093 or visit [www.RegalPTS.com](http://www.RegalPTS.com)