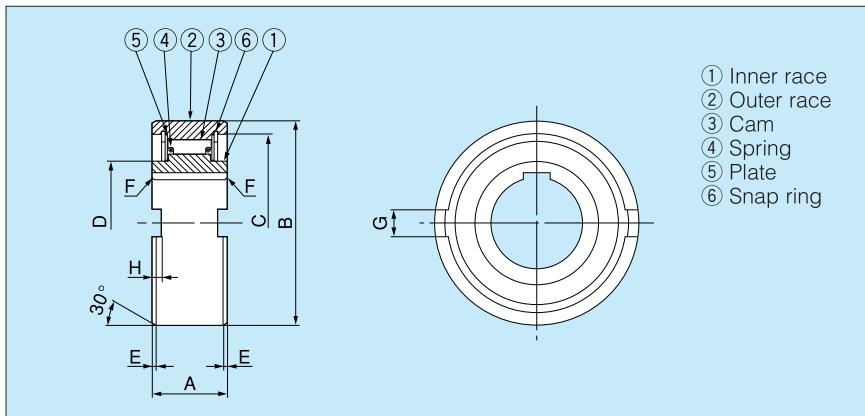


TFS SERIES CAM CLUTCH



Dimensions and Capacities

Dimensions in mm

Model	Torque Capacity (N·m)	Max. Overrunning		Drag Torque (N·m)	Bore Size (H7)	Keyway	A	B	C	D	E	F	G	H	Weight (g)
		Inner Race (r/min)	Outer Race (r/min)												
TFS12	18	4500	2300	0.04	12	4x1.8	13	35	30	18	0.6	0.3	4	1.4	68
TFS15	28	3500	1800	0.06	15	5x1.2	18	42	36	22	0.8	0.3	5	1.8	120
TFS17	50	3200	1600	0.11	17	5x1.2	19	47	38	22	1.2	0.8	5	2.3	150
TFS20	84	2500	1300	0.18	20	6x1.6	21	52	45	27	1.2	0.8	6	2.3	220
TFS25	128	2000	1000	0.19	25	8x2.0	24	62	52	35	1.2	0.8	8	2.8	360
TFS30	200	1600	800	0.21	30	8x2.0	27	72	62	40	1.8	1.0	10	2.5	530
TFS35	475	1400	700	0.42	35	10x2.4	31	80	70	48	1.8	1.0	12	3.5	790
TFS40	607	1300	650	0.46	40	12x2.2	33	90	78	54.5	1.8	1.0	12	4.1	1050
TFS45	756	1100	550	0.56	45	14x2.1	36	100	85.3	59	1.8	1.0	14	4.6	1370
TFS50	1124	1000	500	0.60	50	14x2.1	40	110	92	65	1.8	1.0	14	5.6	1900
TFS60	1975	840	420	0.87	60	18x2.3	46	130	110	84	2.6	1.5	18	5.5	3110
TFS70	2514	750	380	0.91	70	20x2.7	51	150	125	91	2.6	1.5	20	6.9	4390
TFS80	3924	670	340	1.22	80	22x3.1	58	170	140	100	2.6	1.5	20	7.5	6440

Installation and Usage

- The outer race of the TFS Series Cam Clutch is designed for press fit installation to the housing. Correct interference dimensions of the outer race must be maintained to obtain maximum clutch performance. The internal diameter of the housing should meet the H7 tolerance. Keyways should be made in the end faces of the clutch for proper installation. Refer to item 8 in the installation and usage of BB Series Cam Clutch for information on the installation method. If the tolerance of the internal diameter of the housing is K6, keyways are not required on the end faces of the clutch.
- Make sure the housing has enough strength to withstand the pressure required for the press fitting installation of the clutch.
- When installing the clutch, mount it with a type 63 bearing to avoid radial force, since this clutch does not have any bearing support.
- The clutch should be mounted on the shaft by rotating it in the direction marked by the arrow shown on the clutch plate.
- The recommended shaft tolerance is h7, and the key profile should be in accordance with the following standard.
 - TFS 12DIN 6885. 1
 - TFS 15 ~ 80DIN 6885. 3
- Suitable surface pressure of the key should be selected according to your company design standards.

Lubrication

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

