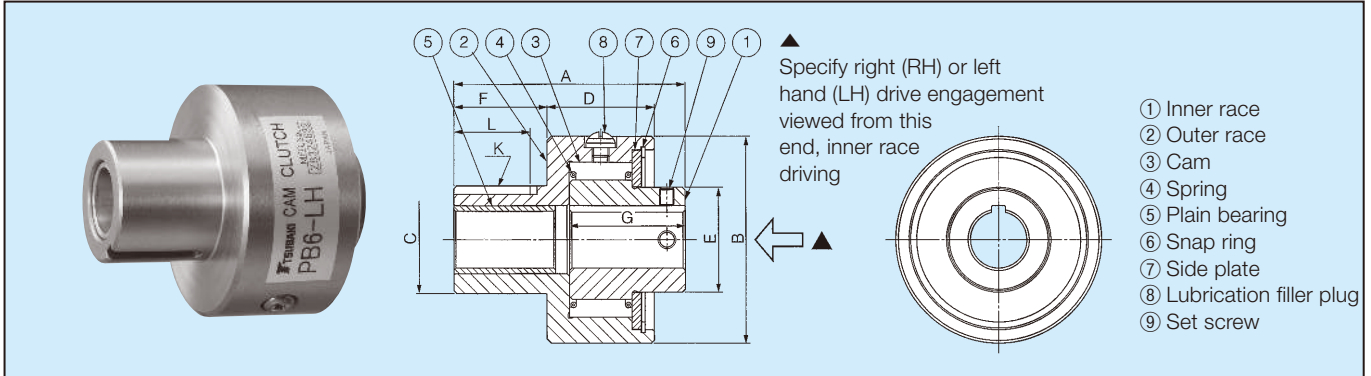


# PB SERIES CAM CLUTCH

## MODELS PB3 TO PB14

### For General Applications



### Dimensions and Capacities

Dimensions in mm

Model	Torque Capacity (N·m)	Drag Torque (N·m)	Max. Overrunning (r/min)		Max. Indexing (cycle/min)	Bore Size		A	B	C (h7)	D	E	F	G	Outer Race Keyway		Weight (kg)	Lubrication Filler Plug Size×Pitch
			Inner Race	Outer Race		Dia. (J7)	Keyway								K	L		
PB 3	29.4	0.20	1800	900	150	10	4×1.5	50	50	23	22	25	21	25.7	4×2.5	16	0.23	M6×P1.0
PB 5	147	0.20	1800	900	150	16	5×2.0	70	60	32	32	35	25	38.8	5×3.0	20	0.58	M6×P1.0
PB 6	382	0.20	1500	800	150	20	5×2.0	82	73	38	38	37	33	41.0	5×3.0	27	1.1	M6×P1.0
PB 8	568	0.29	1200	650	150	25	7×3.0	85	83	45	40	45	33	42.0	7×4.0	27	1.6	M6×P1.0
PB 10	843	0.39	1000	400	150	31.5	10×3.5	92	95	60	41	56	37	44.0	10×4.5	28	2.5	M6×P1.0
PB 12	1530	0.39	800	300	150	40	10×3.5	100	113	65	50	66	37	52.6	10×4.5	29	3.6	M6×P1.0
PB 14	2110	0.59	700	300	150	45	12×3.5	112	133	75	54	76	41	57.3	12×4.5	30	6.0	M6×P1.0

**Note:** Stronger spring type "PB-SS" is available upon request.

### Installation and Usage

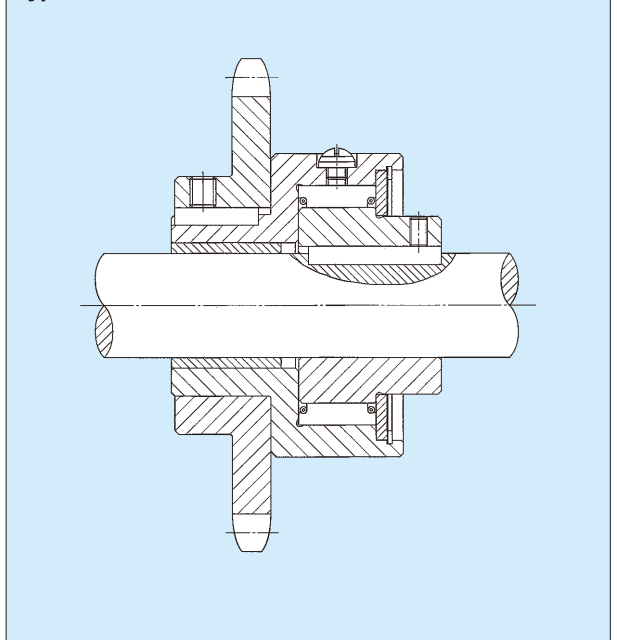
- Concentricities of the inner race and the outer race are maintained by the plain bearing located between the outer race and the shaft. Radial load which works on the outer race is also supported by this plain bearing. The shaft must therefore be extended through the clutch outer race end.
- Recommended shaft tolerances are as follows:

Model	Tolerance (mm)
PB 3, PB 5, PB 6, PB 8	+0 to -0.013
PB 10, PB 12, PB 14	+0 to -0.016

- Do not use the PB Series Cam Clutch as a coupling. Use with a flexible coupling when connecting two shafts.
- Specify right (RH) or left hand (LH) inner race drive viewed from the end marked by the arrow in the illustration above. Check if the rotation of the clutch is correct before being run-in.
- For indexing use, oil lubrication is recommended.
- Key to be used should be in accordance with JIS B1301-1959
- Align the key to slide through the keyway smoothly before installation.
- Thrust load should be supported by other devices, not by the Cam Clutch.
- The bore of the driven member, such as the sprocket on the clutch outer race, should meet H6 or H7 tolerance of the JIS standard.

- When selecting the clutch, see "Information for Selection" on page 77. For lubrication, see "Lubrication and Maintenance" on page 79.

### Typical installation





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