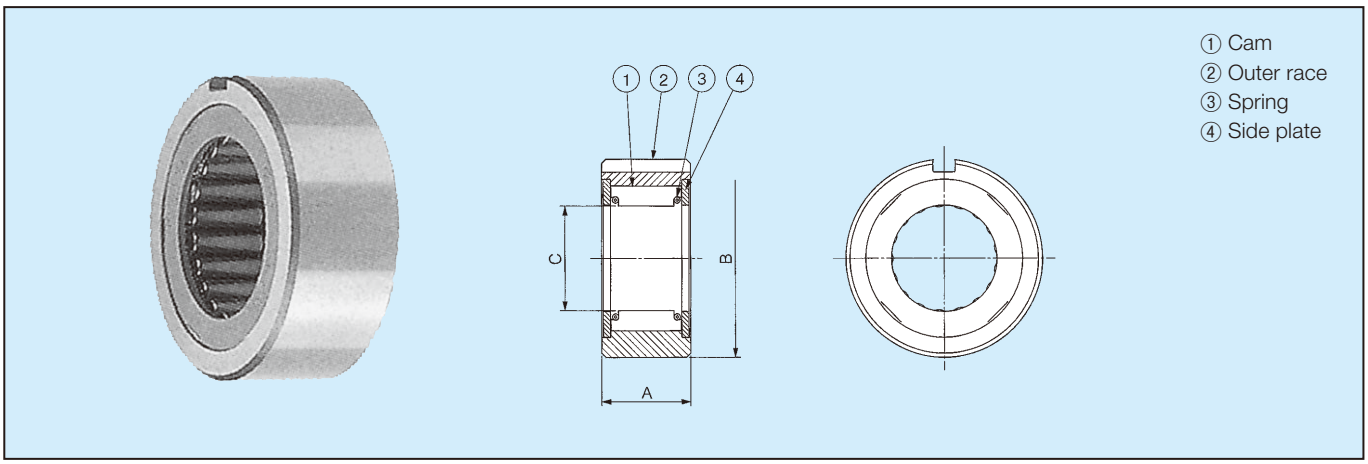
200 SERIES CAM CLUTCH

■ MODELS B203 TO B214

Shaft-Mounted Type



Dimensions and Capacities

Dimensions in mm

Model	Torque Capacity (N·m)	Drag Torque (N·m)	Max. Overrunning (r/min)		Max. Indexing (cycle/min)	A (+0 to −0.06)	B	Shaft Dia. C (+0 to −0.025)	Keyway	With JIS Bearing No.	Weight (kg)
			Shaft	Outer Race							
B 203	39.2	0.10	2400	500	150	25.0	$40^{-0.014}_{-0.039}$	16.510	4×2.5	6203	0.23
B 204	58.8	0.10	2400	500	150	25.0	$47^{-0.014}_{-0.039}$	18.796	5×3	6204	0.34
B 205	98	0.20	1800	400	150	25.0	$52^{-0.017}_{-0.042}$	23.622	5×3	6205	0.45
B 206	235	0.20	1800	350	150	28.0	$62^{-0.017}_{-0.042}$	32.766	7×4	6206	0.68
B 207	372	0.20	1800	300	150	28.0	$72^{-0.017}_{-0.042}$	42.088	7×4	6207	0.80
B 208	549	0.20	1800	200	150	32.0	$80^{-0.017}_{-0.042}$	46.761	10×4.5	6208	0.91
B 209	549	0.20	1800	200	150	32.0	$85^{-0.020}_{-0.045}$	46.761	10×4.5	6209	0.95
B 210	784	0.29	1200	200	150	32.0	$90^{-0.020}_{-0.045}$	56.109	10×4.5	6210	1.00
B 211	784	0.29	1200	200	150	32.0	$100^{-0.020}_{-0.050}$	56.109	10×4.5	6211	1.40
B 212	1230	0.29	1200	180	150	42.0	$110^{-0.020}_{-0.050}$	70.029	10×4.5	6212	1.80
B 213	1230	0.29	1200	180	150	42.0	$120^{-0.020}_{-0.050}$	70.029	10×4.5	6213	2.30
B 214	1390	0.39	1000	180	150	42.0	$125^{-0.024}_{-0.060}$	79.356	12×4.5	6214	2.40

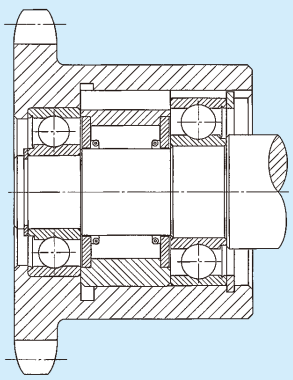
Note: Stronger spring type “B---SS” is availabe upon request. when an inner race is needed, order “B---IR”.

Installation and Usage

1. 200 Series Cam Clutch is shaft mounted, so the shaft on which the clutch is mounted must be hardened to Rc 56-60 and 1.5 mm case depth after grinding. Grind to 1.5S (16micro-inch) finish. The taper of this shaft should not exceed 0.01mm per 50mm.
2. For installation of the clutch, mount the clutch with bearings at both sides or on one side in order to obtain concentricity between the shaft and the clutch outer race and to take up radial or thrust loads which may work on the outer race or the shaft. See the installation example.
3. The clutch should be mounted on the shaft by rotating it in the direction marked by the arrow shown on the clutch plate. Do not apply shock to the clutch by hammering.
4. The clutches have the same outside diameters as the bearings shown in the table above. Bore tolerance of the housing in which the clutch is assembled should be within the range shown in the table below.
5. For indexing, oil lubrication is recommended.
6. Concentricity of the housing bore and shaft should be within 0.05 mm.
7. Key profile should be in accordance with JIS B1301-1959.
8. Align the key to slide through the keyway smoothly before installation.

Model	Tolerance of housing bore (mm)
B 203, B 204	+0 to +0.025
B 205, B 206,B 207, B 208	+0 to +0.030
B 210, B 211, B 212, B 213	+0 to +0.035
B 214	+0 to +0.040

Typical installation



• See “information for Selection” on page 77.
• See “Lubrication and Maintenance” on page 79.

Innovation in Motion

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