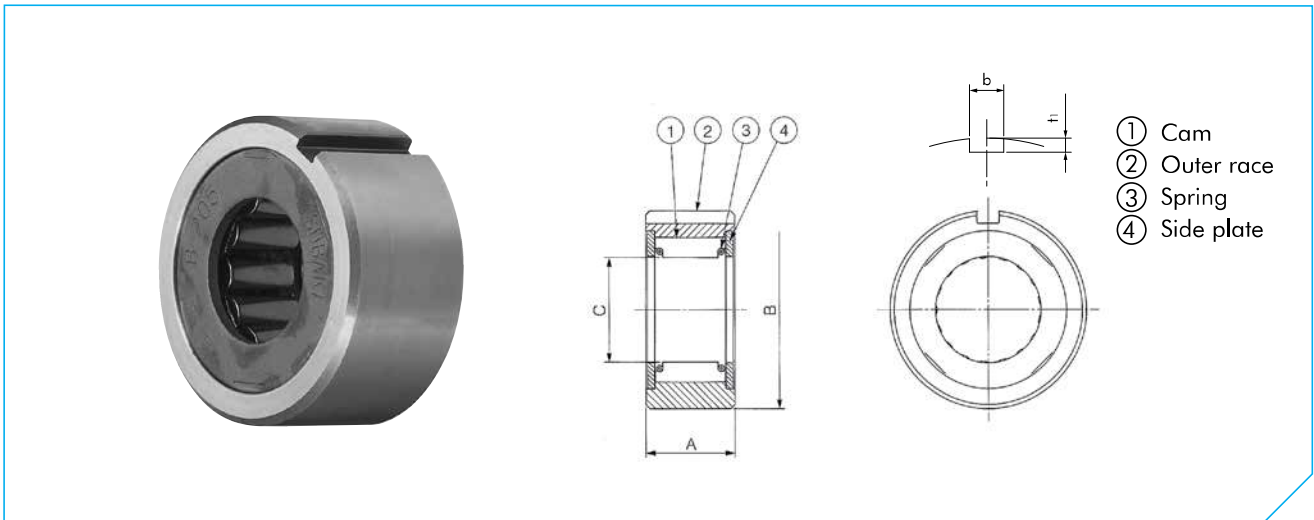


# 200 SERIES CAM CLUTCH



200

Dimensions in mm

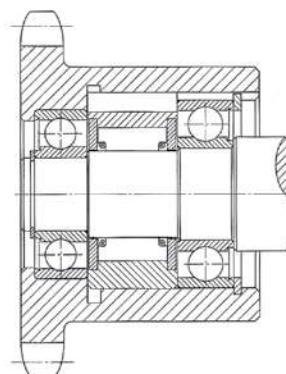
| Model  | Torque Capacity Nm | Max. Overrunning Speed |                  | Drag Torque Nm | Max. Indexing cycle/min | A (-0.06 to +0) | B                               | C (-0.025 to +0) | Outer Race Keyway |                | Use with JIS Bearing Number | Approx. Mass kg/pc |
|--------|--------------------|------------------------|------------------|----------------|-------------------------|-----------------|---------------------------------|------------------|-------------------|----------------|-----------------------------|--------------------|
|        |                    | Inner Race r/min       | Outer Race r/min |                |                         |                 |                                 |                  | b P10             | t <sub>1</sub> |                             |                    |
| B 203  | 39.2               | 2400                   | 500              | 0.098          | 150                     | 25.0            | 40 <sup>-0.014</sup><br>-0.039  | 16.510           | 4 x 2.5           |                | 6203                        | 0.23               |
| B 204  | 58.8               | 2400                   | 500              | 0.098          | 150                     | 25.0            | 47 <sup>-0.014</sup><br>-0.039  | 18.796           | 5 x 3.0           |                | 6204                        | 0.34               |
| B 205  | 98                 | 1800                   | 400              | 0.196          | 150                     | 25.0            | 52 <sup>-0.017</sup><br>-0.042  | 23.622           | 5 x 3.0           |                | 6205                        | 0.45               |
| B 206  | 235                | 1800                   | 350              | 0.196          | 150                     | 28.0            | 62 <sup>-0.017</sup><br>-0.042  | 32.766           | 7 x 4.0           |                | 6206                        | 0.68               |
| B 207  | 372                | 1800                   | 300              | 0.196          | 150                     | 28.0            | 72 <sup>-0.017</sup><br>-0.042  | 42.088           | 7 x 4.0           |                | 6207                        | 0.80               |
| B 208  | 549                | 1800                   | 200              | 0.196          | 150                     | 32.0            | 80 <sup>-0.017</sup><br>-0.042  | 46.761           | 10 x 4.5          |                | 6208                        | 0.91               |
| B 209  | 549                | 1800                   | 200              | 0.196          | 150                     | 32.0            | 85 <sup>-0.020</sup><br>-0.045  | 46.761           | 10 x 4.5          |                | 6209                        | 0.95               |
| B 210  | 784                | 1200                   | 200              | 0.294          | 150                     | 32.0            | 90 <sup>-0.020</sup><br>-0.045  | 56.109           | 10 x 4.5          |                | 6210                        | 1.00               |
| B 211* | 784                | 1200                   | 200              | 0.294          | 150                     | 32.0            | 100 <sup>-0.020</sup><br>-0.050 | 56.109           | 10 x 4.5          |                | 6211                        | 1.40               |
| B 212* | 1230               | 1200                   | 180              | 0.294          | 150                     | 42.0            | 110 <sup>-0.020</sup><br>-0.050 | 70.029           | 10 x 4.5          |                | 6212                        | 1.80               |
| B 213* | 1230               | 1200                   | 180              | 0.294          | 150                     | 42.0            | 120 <sup>-0.020</sup><br>-0.050 | 70.029           | 10 x 4.5          |                | 6213                        | 2.30               |
| B 214* | 1390               | 1000                   | 180              | 0.392          | 150                     | 42.0            | 125 <sup>-0.024</sup><br>-0.060 | 79.356           | 12 x 4.5          |                | 6214                        | 2.40               |

\* = Non-stock item

## Installation and Usage

- 200 Series Cam Clutch is shaft mounted, so the shaft on which the clutch is mounted must be hardened to HRC 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 0.01 mm per 50 mm.
- 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.
- 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.
- 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.
- For indexing, oil lubrication is recommended.
- Concentricity of the housing bore and shaft should be within 0.05 mm.
- Key profile should be in accordance with JIS B1301-1959.

| 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                   |



Installation example