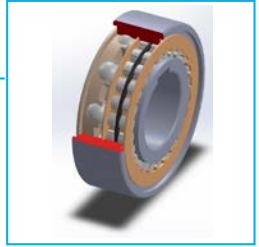


Under mass-production

## Cam-type One-Way Clutch equipped with Bearings - BB series



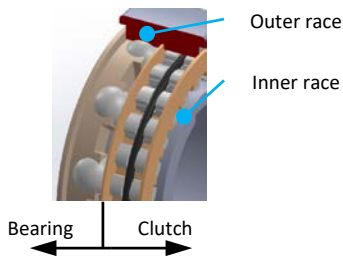
### Product description

Power transmission is maximized via cams which are strategically positioned between the inner and outer races to transmit torque equally. Bearings are equipped to guarantee concentricity of input and output shafts.

### Features

Compact clutches with bearing function achieving high torque transmission

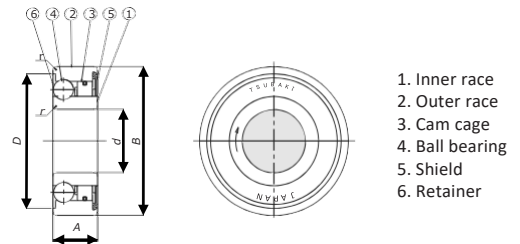
Clutches and bearings come preinstalled as a package.  
→ Axial space saving is realized whilst maintaining power transmission capability.



### Product Line-up

Applicable shaft diameter: 15mm – 40mm, 7 types

Clutches are press-fit to the shaft and housing in the same way as the bearing.



#### Power transmission capability

Numerous small cams provide bigger torque transmission capacity than a shell-type roller clutch of the same size.

#### Compactness

The dimensions are identical to that of the standard series 6200 bearing with the added functionality of the one-way clutch.

#### Usability

The inner and outer rings are shared by the clutch and bearings, and are easily installed on the shaft.

| Part Number | Rated Torque N·m | O.D. φB mm | I.D. φd mm | Width A mm | Bearing Loads |          | Weight g |
|-------------|------------------|------------|------------|------------|---------------|----------|----------|
|             |                  |            |            |            | Dynamic N     | Static N |          |
| BB15        | 29               | 35         | 15         | 11         | 5,940         | 3,230    | 50       |
| BB17        | 43               | 40         | 17         | 12         | 7,000         | 3700     | 80       |
| BB20        | 61               | 47         | 20         | 14         | 8,500         | 4900     | 120      |
| BB25        | 78               | 52         | 25         | 15         | 10,700        | 6,300    | 150      |
| BB30        | 140              | 62         | 30         | 16         | 11,900        | 7,900    | 230      |
| BB35        | 173              | 72         | 35         | 17         | 13,500        | 9,700    | 320      |
| BB40        | 260              | 80         | 40         | 22         | 14,500        | 11,700   | 400      |

\*Keyways are optional for both shaft and hole mounting types.  
\*Please contact us for specifications other than listed above.

### Benefits

Easy installation, making your products smaller and energy-efficient

As there is no need to consider the clutch and bearing separately, the customer's design efforts are greatly reduced. In addition, since there is no need for hardening and grinding to the mounting shafts, one-way clutch functions can be easily implemented. Furthermore, the size and weight of the customer's products can be reduced, greatly contributing to improved torque transmission efficiency.

### Applications

#### Driving pumps with dual-drive

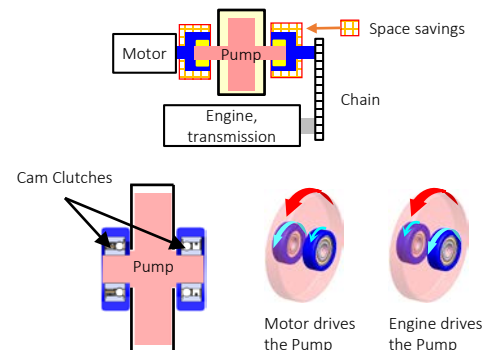
Each power source drives a pump in the most efficient area, and the power is seamlessly switched by the cam clutch.

##### Idling, reversing and slowing down (engine off)

- Pump is driven by the motor.
- Cam clutch A engages and drives the pump.
- Cam clutch B idles and does not transmit torque to the transmission.

##### Cruising (engine on)

- Pump is driven by the transmission.
- Cam clutch A idles and does not transmit torque to the motor.
- Cam clutch B engages and drives the pump.



With its unrivaled reliability, long life, and compact size, Tsubaki cam clutches contribute to the efficiency improvement of electrified vehicles.