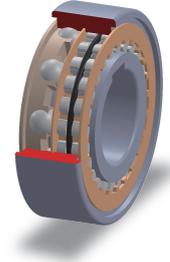


Cam-type Freewheel Clutch equipped with Bearings-BBseries

Cam Clutch and Bearing

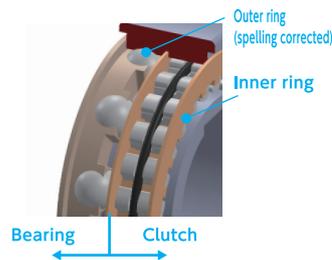
Cam clutches maximize their power transmission capability by evenly transmitting torque through cams arranged in a circumferential pattern. It is used in conjunction with bearings and other components to ensure concentricity of the input and output shafts.



Features

Compact and high torque transmission despite incorporating bearing functionality.

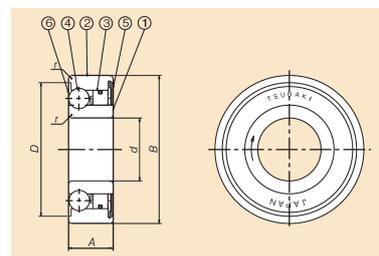
The cam clutch and bearing are packaged such that they share the inner and outer races. Axial space saving is possible while maintaining the same power transmission capability.



Lineup

A wide range of 7 types of applicable shaft diameters from 15 mm to 40 mm.

This cam clutch is press-fitted to the shaft and housing in the same manner as bearings.



1. Inner Ring
2. Outer Ring
3. Cam Cage
4. Steel Ball
5. Shield
6. Retainer

Torque transmission performance	High torque capacity compared to shell type roller clutches of the same size is achieved by the compact cam arrangement.
Compact	Freewheel clutch function added with the same dimensions as No. 6200 bearing.
Ease of use	The bearing and clutch share common inner and outer races. The cam and bearing retention cage is made of plastic. No hardening or grinding finish required on the mounting 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	5940	3230	50
BB17	43	40	17	12	7000	3700	80
BB20	61	47	20	14	8500	4900	120
BB25	78	52	25	15	10700	6300	150
BB30	140	62	30	16	11900	7900	230
BB35	173	72	35	17	13500	9700	320
BB40	260	80	40	22	14500	11700	400

※ Keyway can be selected for either shaft mounting or hole mounting.
 ※ Please contact us for requests other than the above lineup.

Advantages for Customers

Easy installation of products, making them smaller and more energy-efficient.

Since there is no need to study the clutch and bearing sections separately, the customer's design time is greatly reduced. The mounting shaft does not require a hardened or ground finish, so the freewheel clutch function can be easily introduced. The compact size contributes to the downsizing and weight reduction of our customers' products and to the improvement of torque transmission efficiency.

Application Examples

Hybrid drive for pumps

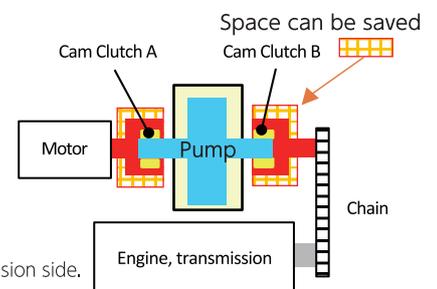
Each drive source drives the pump in an efficient region, and the cam clutch seamlessly switches its power.

<Stopped, backward, at low speed (when engine is stopped)>

- Small motor drives pump.
- Cam clutch A engages and drives the pump, cam clutch B overruns and does not transmit power from the transmission side.

<Normal driving (engine-driven)>

- Transmission shaft drives the pump.
- Cam clutch A overruns and does not transmit power from the motor side, cam clutch B engages and drives the pump.



The Tsubaki Clutch contributes to the improvement of energy-saving performance in the electrification of automobiles by making No.1 more reliable, long-lasting, and compact.

TSUBAKIMOTO CHAIN CO.

Global Marketing Department, Timing System Division, Mobility Division
 Tel: 042-976-9098 E-mail: e-mobility@gr.tsubakimoto.co.jp

The logos and tradenames in this leaflet are trademarks or registered trademarks of Tsubakimoto Chain Company or Group Corporation in Japan and other countries.

Website

