

Drive member selection and manufacture

A sprocket, gear and pulley can be installed in the Shock Guard to act as the drive member (center member).

When selecting and manufacturing a drive member, refer to the precautions listed below.

- (1) Use the outer diameter of the center flange as the spigot facing, and fix the drive member with bolts. Verify the diameter of the Shock Guard's spigot facing with that of the drive member. Each spigot is as listed in the chart below.

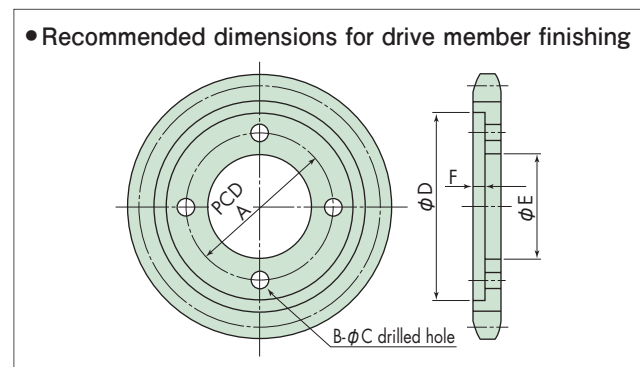
Unit : mm

Model No.	Spigot diameter	Model No.	Spigot diameter
TGB08-L,M,H	40(h8)	TGB50-L,M,H	160(h7)
TGB12-L,M,H	48(h8)	TGB70-H	220(h7)
TGB16-L,M,H	58(h8)	TGB90-L,H	295(h7)
TGB20-H	90(h7)	TGB110-L,H	355(h7)
TGB30-L,H	113(h7)	TGB130-L,H	400(h7)

- (2) Center flange installation

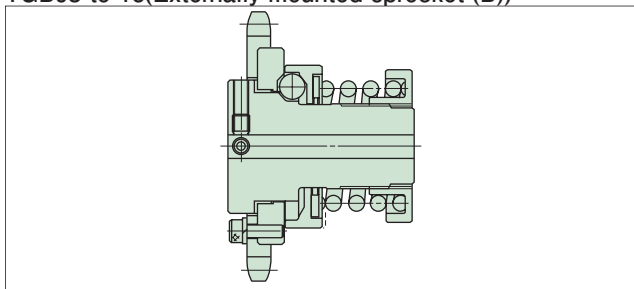
• TGB08 to 16

The center flange's installation tap hole is penetrated. If the bolt's length is longer than the center flange, it will make contact with the plate. Make sure it does not stick out on the plate side.



Installation example

TGB08 to 16(Externally-mounted sprocket (B))



• TGB20 to 130

The center flange's installation tap hole is penetrated. If the the bolt's length is too long there may be contact with the sensor plate. The recommended bolt screw lengths are listed in the chart below.

Unit : mm

Model No.	Bolt screw length	Model No.	Bolt screw length
TGB08-L,M,H	4	TGB50-L,M,H	9 to 11
TGB12-L,M,H	5	TGB70-H	13 to 15
TGB16-L,M,H	7	TGB90-L,H	23 to 25
TGB20-H	6 to 7	TGB110-L,H	26 to 28
TGB30-L,H	8 to 10	TGB130-L,H	28 to 30

- (3) Refer to the chart below for drive member bolt diameters (JIS B1001-1985).

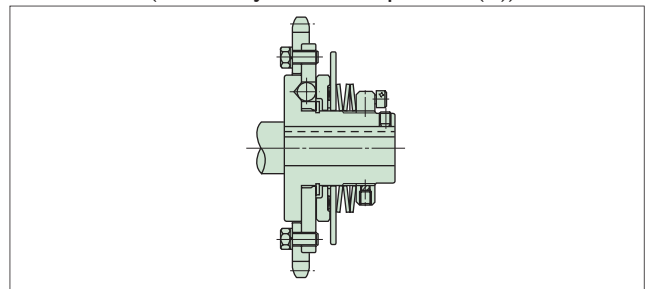
• Bolt bore diameter JIS B1001 – 1985

Unit : mm

Nominal screw diameter	3	4	5	6	8	10	12	16
Bolt bore diameter	3.4	4.5	5.5	6.6	9	11	13.5	17.5

Series name	Drive member finishing dimensions					
	A	B	C	D	E	F
TGB08-L,M,H	34	3	3.4	40 _{H7}	28	3
TGB12-L,M,H	40	3	4.5	48 _{H7}	33	3
TGB16-L,M,H	50	3	4.5	58 _{H7}	41	3
TGB20-H	78	4	5.5	90 _{H7}	64	3
TGB30-L,H	100	6	6.6	113 _{H7}	84	4
TGB50-L,M,H	142	6	9.0	160 _{H7}	124	5
TGB70-H	200	6	11	220 _{H7}	172	5
TGB90-L,H	265	8	13.5	295 _{H8}	240	5
TGB110-L,H	325	6	17.5	355 _{H8}	292	5
TGB130-L,H	360	8	17.5	400 _{H8}	325	5

TGB20 to 50(Externally-mounted sprocket (B))



Lock screw/tightening torque reference chart

Hexagon socket head screw	Tightening torque N·m(kgf·cm)
M5	3.8 {38.7}
M8	16 {163}

Precautions:

When re-tightening the lock screws that are once removed, make sure to take the following precautions:

1. Confirm that the plug tip has not been removed. If a lock screw is used with a tipless plug, the hub's thread may be damaged or the hub's pocket may get jammed.
 2. Confirm that the plug tip has not been heavily damaged. If a lock screw is used with a heavily damaged plug tip, the hub's thread may be damaged.
- *If 1. or 2. is found to be the case, exchange the damaged parts with new ones.