

# Custom Design Clutches and Brakes

## Mounting Examples and Options

Warner Electric custom design brakes and clutches are economical to purchase and simple to install. They consist of components which must be assembled on the shaft and properly attached to the machine frame.

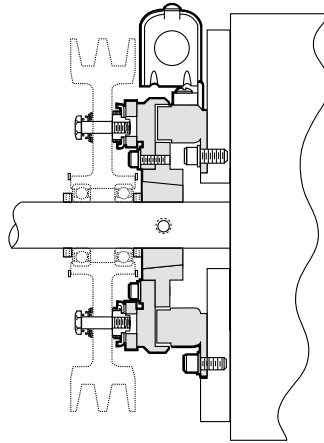
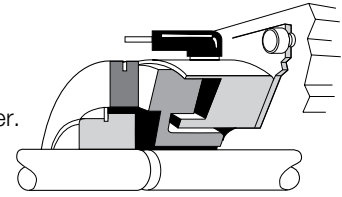
Various customer furnished drive components must be assembled with the brake or clutch. Pulleys, sprockets and bearings/pillow blocks for shafting may be essential elements of a complete drive system. Squareness and concentricity tolerances are specified where critical to proper clutch/brake functioning.

The illustrations show SF, PC and PCB units mounted with customer supplied bearing mounted pulley. In each illustration the drive pin for a normal duty clutch is shown. In this manner the pulley will support the armature.

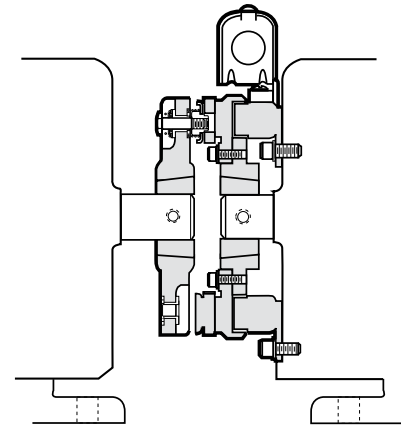
### SF Clutches and SFC Clutch Couplings

#### Flange Mounting

Concentricity tolerances, held by customer, are critical. Pilot surfaces required on machine member. Eliminates bearings. Good design for high speed applications.



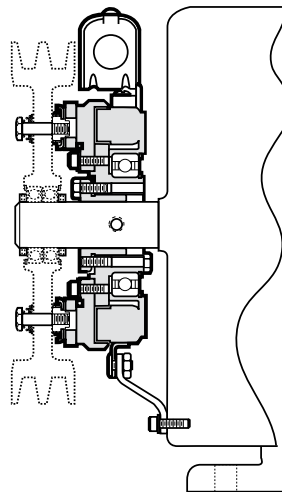
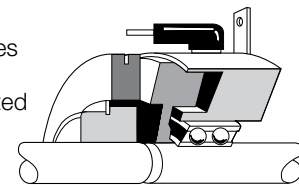
**SF Clutch**  
Typical Installation



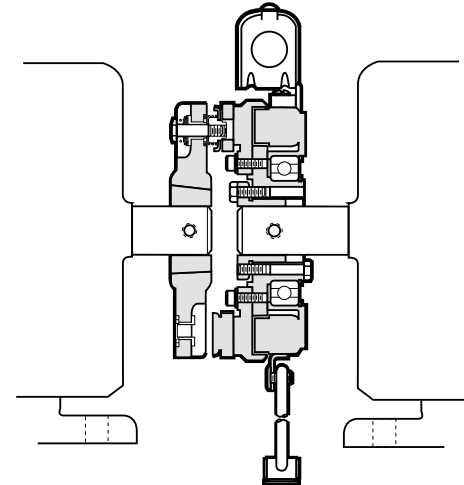
**SFC Clutch Coupling**  
Typical Installation

#### Bearing Mounting

Bearing supports field and holds close tolerances required between rotor and field. Easy to install and priced about the same as the flange mounted design.



**SF Clutch**  
Typical Installation

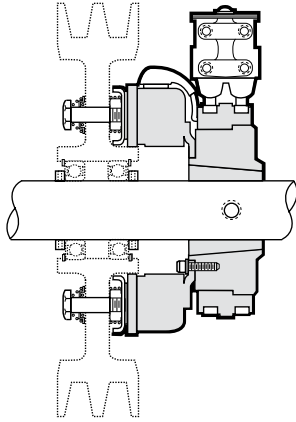


**SFC Clutch Coupling**  
Typical Installation

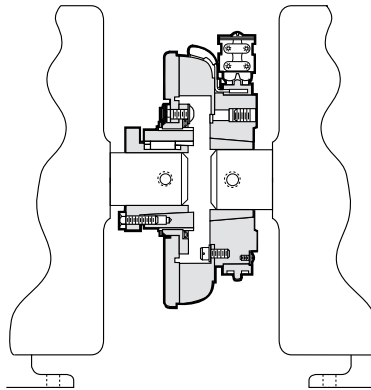
# Custom Design Clutches and Brakes

## Mounting Examples and Options

### PC Clutches and PCC Clutch Couplings



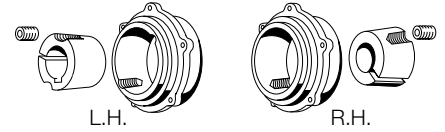
**PC Clutch**  
Typical Installation  
(Left hand hub shown)



**PCC Clutch Coupling**  
Typical Installation

### Left Hand vs. Right Hand Hubs

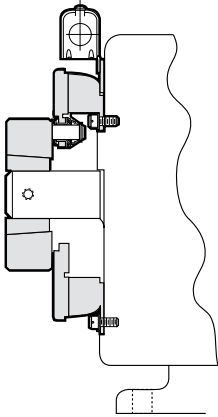
Left handed or right handed Taperlock bushing installation



Taperlock bushing enters from magnet side. Mounting screws accessible from magnet size only.

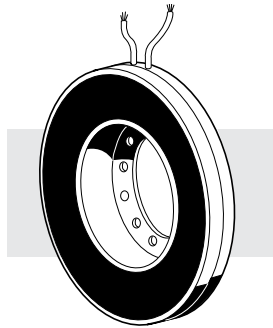
Taperlock bushing enters from opposite side.

### PB Brakes

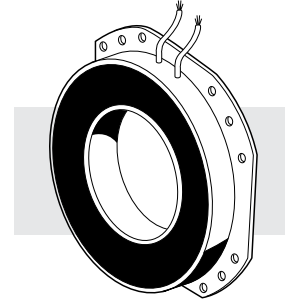


**PB Brake**  
Typical Installation

### Inside or Outside Mounting Option

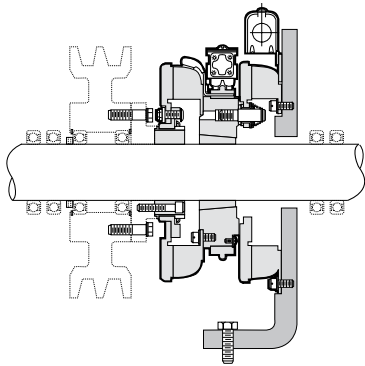


**Inside Mount**  
Mounting screws for the magnet are accessible from inside the magnet only.

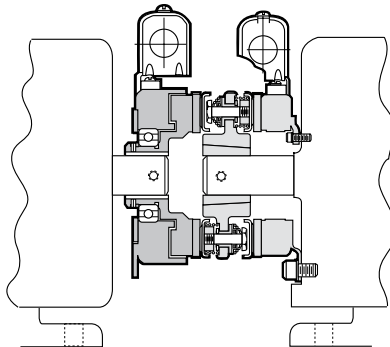


**Outside Mount**  
Mounting screws for the magnet are accessible on the outside of the magnet. Outside mounted units cost slightly more.

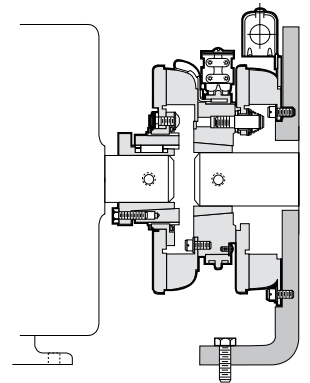
### Clutch/Brake Combinations



**PCB Clutch/Brake**  
Typical Installation



**SFPBC Clutch/Brake Coupling**  
Typical Installation



**PCBC Clutch/Brake Coupling**  
Typical Installation