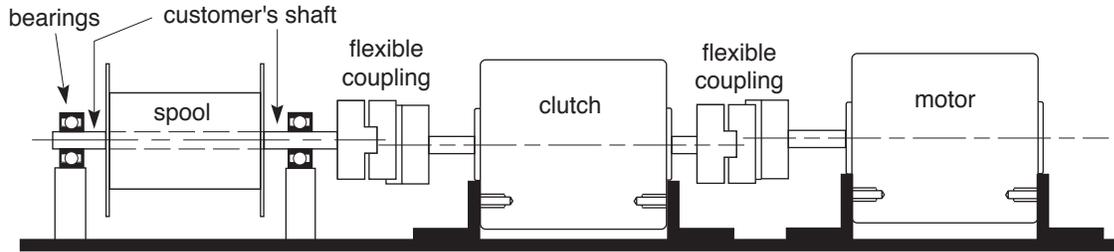


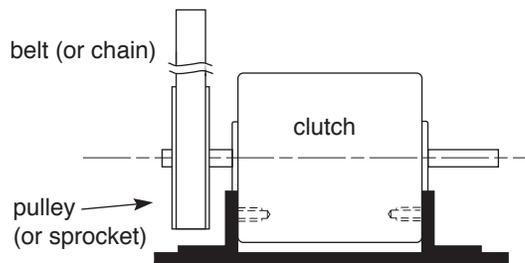
Mechanical Installation Requirements for Clutches

When a clutch is foot mounted, and connected to a fully supported shaft, a flexible coupling must be used. Since perfect shaft alignment is impossible, flexible couplings are needed to protect the bearings from destructive side loads.



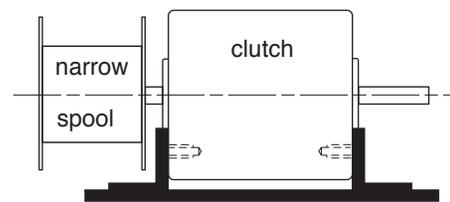
Both shafts fully supported by bearings - The clutch shafts are supported by bearings. The customer's shaft (for the spool, or gearbox, motor, or any device) is also fully supported by bearings. Even with precise alignments, a flexible coupling is required. If a rigid coupling is used, the shafts are forced into alignment by bending the shafts, resulting in bearing overload, and premature failure.

A flexible coupling is not needed when:

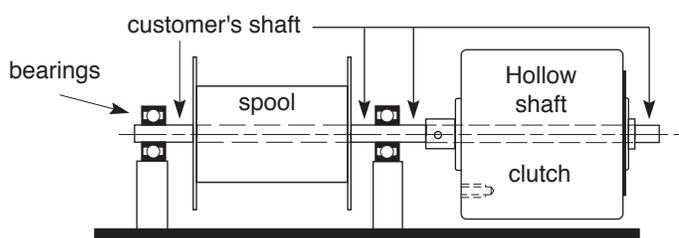


Belt, chain drive, or gears:

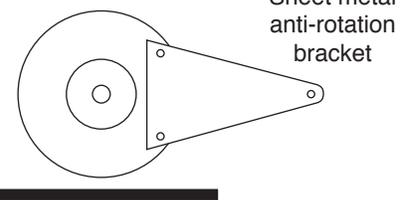
The belt or chain flexes for misalignments. Gear play accommodates misalignments. A bracket rigidly locates the clutch.



The clutch supports the spool (or other floating device)



Clutch End View



Floating hollow-shaft clutch - The customer's shaft for the spool (or other device) supports the clutch. The sheet metal anti-rotation bracket prevents the clutch body from rotating, yet flexes for misalignments.

Do not rigidly mount the clutch body.



Placid Industries, Inc.

139 Mill Pond Drive, Lake Placid, NY 12946 USA

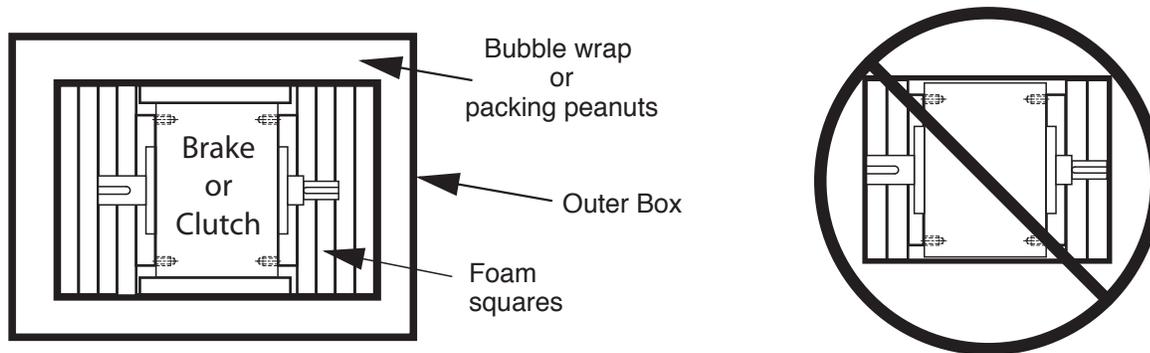
www.placidindustries.com

Phone 518 523-2422

Fax 518 523-2746

Brake & Clutch Installation Instructions

PACKING FOR SHIPPING - Protect from impact



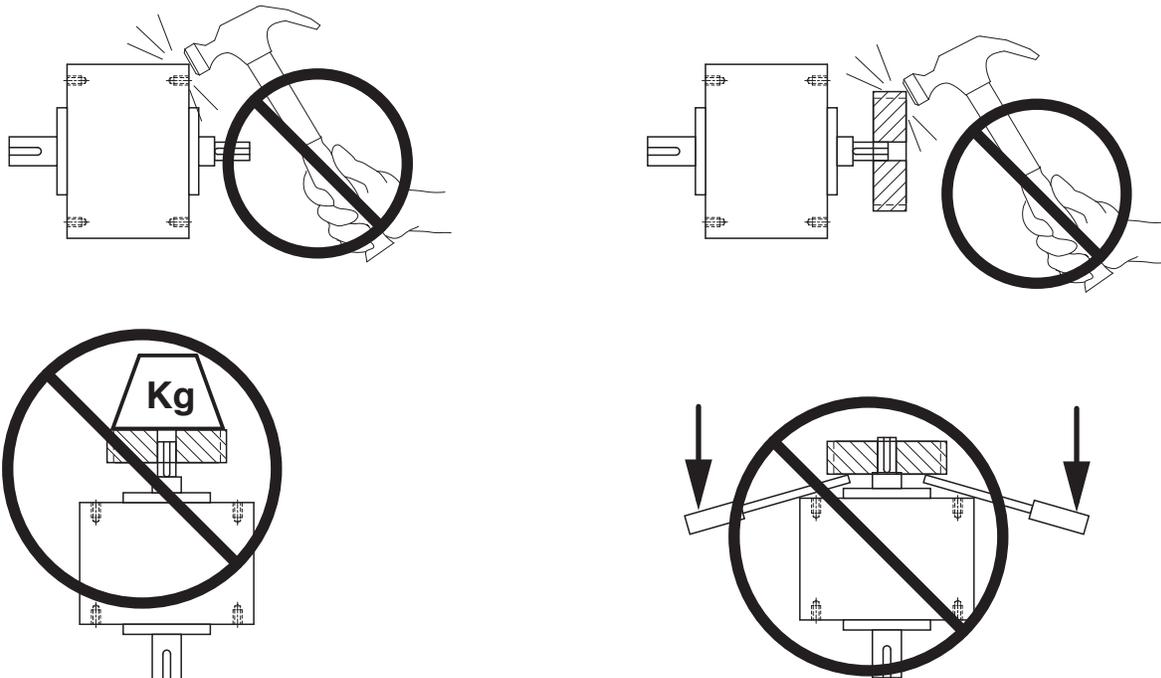
CARE & HANDLING

Do not drop, or strike with a hammer. Keep away from metal filings & fine metal chips. Shield from liquids.

Do not attempt to disassemble or remove the shafts.

The shafts must fit your gear, pulley, or couplings as SLIDE fits.

INSTALLATION



Do not force your pulley onto the shaft.

Use a gear puller to remove a stuck item. Do not pry.

MAINTENANCE

The brakes & clutches never need adjustments or maintenance. Do not attempt to disassemble.



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