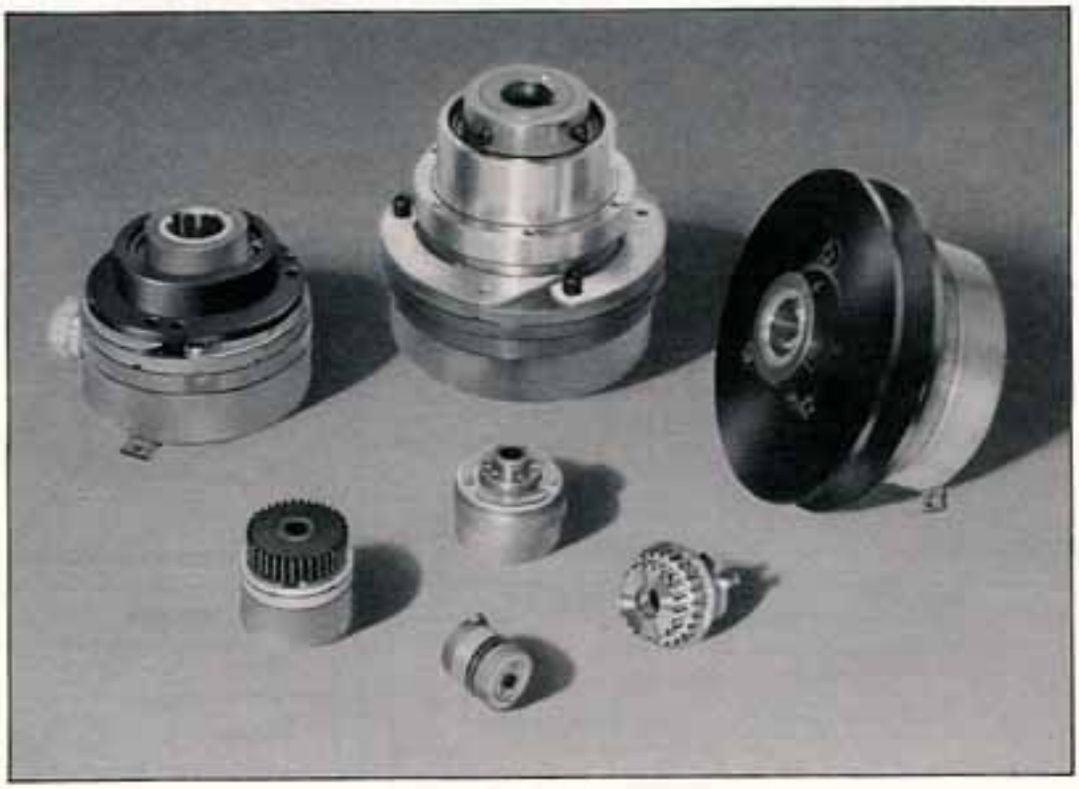
CLUTCHES



FOR ORDERING INFORMATION SEE PAGE A-7

ELECTROID'S ELECTROMAGNETIC CLUTCHES

The units shown on the following pages represent the family of Electroid's electromagnetic clutches. This family consists of five series: EC, ECA, BEC, SBEC, and SEC.

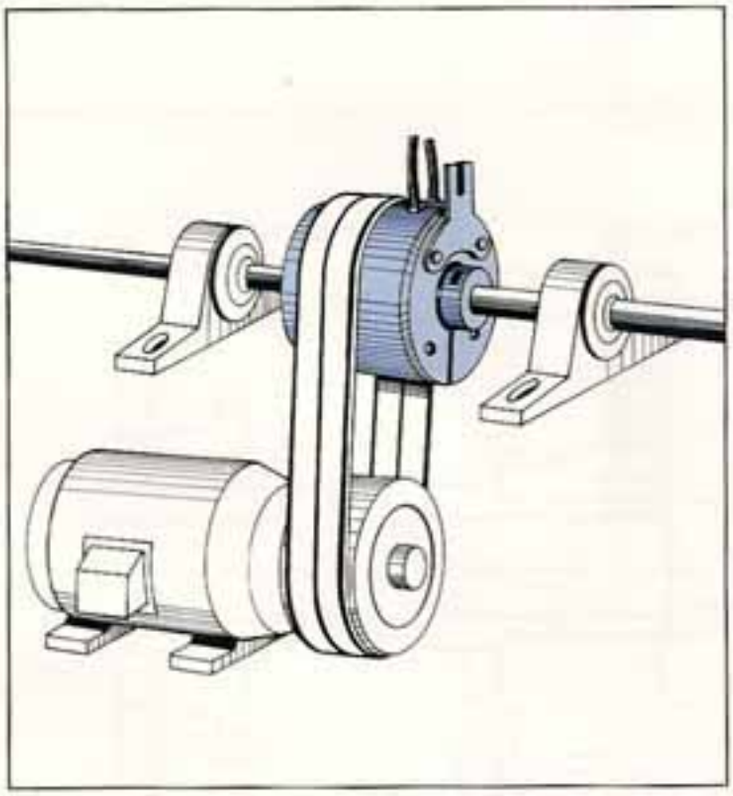
While they differ in their performance characteristics, all of them offer these common key design features:

- Zero backlash armature with spring release.
- Precision sleeve or ball bearings.
- Stationary field coil -- no slip rings or brushes.
- Coil -- Epoxy resin encapsulated, vibration-proof.
- Fast response time.

In addition to the off-the-shelf models, Electroid offers an in-depth engineering capability to design or modify clutches to meet special requirements. Over the years, our company has designed, developed and produced in quantity, a wide variety of "specials" that later proved themselves in a spectrum of applications ranging from commercial to military and aerospace.

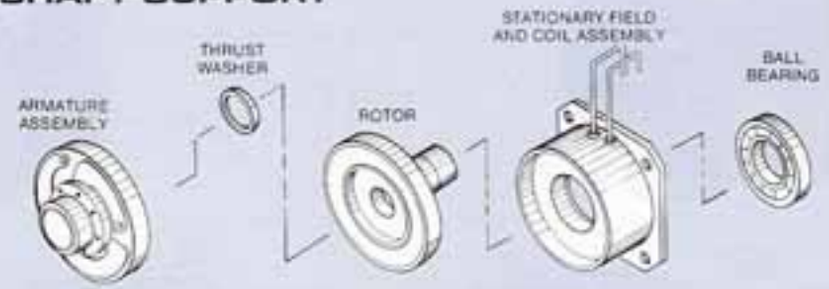
CLUTCH: Transmits rotary motion to a PARALLEL shaft only when coil is energized, by using Sheaves, Sprockets, Gears, or Timing Pulleys.

For split shaft application see Clutch Coupling section.



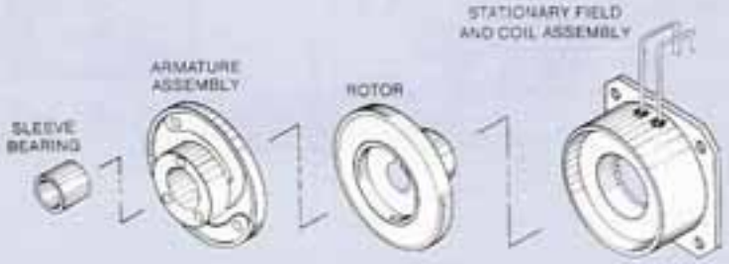
EC SERIES — FLANGE MOUNTED WITH BALL BEARINGS FOR SHAFT SUPPORT

This design provides flange mounted ball bearings. When coil is energized armature engages rotor, driving the load.



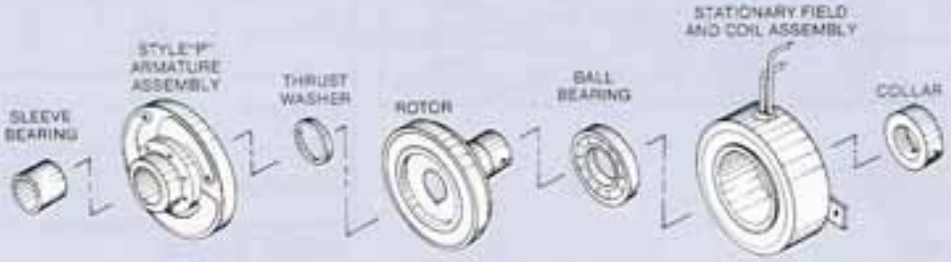
ECA SERIES — FLANGE MOUNTED WITHOUT BEARING FOR SHAFT SUPPORT

The flanged field coil housing is mounted to customer's stationary bulkhead or equivalent. Energizing the coil engages the armature assembly to the rotor which in turn drives the load.



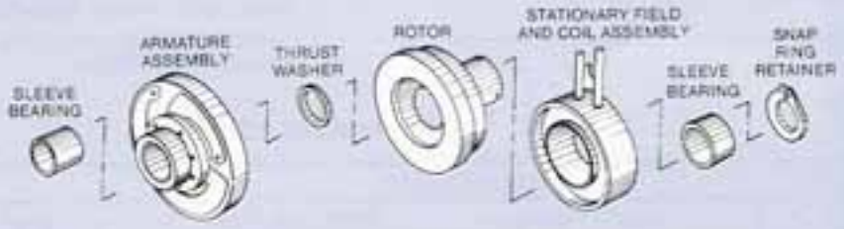
BEC SERIES — BALL BEARING MOUNTED ROTOR

This design allows rotor assembly to rotate with drive shaft which is supported with ball bearings to the stationary field coil housing.



SBEC SERIES — SLEEVE BEARING MOUNTED ROTOR ASSEMBLY

Rotor is supported by stationary field coil housing thru sleeve bearings as one complete unit. Energizing coil, engages both rotor and armature, driving load.



SEC SERIES — BALL BEARING MOUNTED ARMATURE AND ROTOR ASSEMBLY

This design allows customer's drive components to remain in a non-rotating state while rotor assembly, which is keyed directly to driven shaft, rotates with shaft. Upon energizing coil, armature plate engages rotor, driving load.