

# Aerospace Electromagnetic Clutches & Brakes

POWER TRANSMISSION SOLUTIONS FOR  
THE AEROSPACE & DEFENSE MARKET



## AEROSPACE ELECTROMAGNETIC BRAKES: STOP LOADS AND HOLD POSITION WITH PRECISE CONTROL

### Typical Applications

- Motor Brake
- Flap Actuator Holding
- Ball Screw Drives
- Planetary Gearboxes
- Robotic Arm Holding
- Drones/Munitions
- Winch Systems
- Cargo Roller Stops
- Tensioning Systems

## AEROSPACE ELECTROMAGNETIC CLUTCHES: TRANSMIT ROTATIONAL ENERGY WITH THE SPEED OF A SWITCH

### Typical Applications

- Alternators
- Instrumentation
- Starters
- Pumps
- Motors
- Actuators
- Drive Line
- Transmissions
- Gearboxes
- Valves
- Compressors

## PARTNERING WITH FORMSPRAG CLUTCH PROVIDES:

### Precision Manufacturing

Advanced grinding and friction control

### Quick Turn Around

DV samples in weeks instead of months

### Creativity and Vision

Technical help and advice to yield success for your programs

### Best Product for your Application

Meeting customer's Expectations is the heart of the Formsprag Vision Statement

### AS 9100 Certification

Rev C Flag is proudly displayed both inside and outside the Warren MI Facility

### Decades of Experience

Formsprag started with aerospace clutches on the B52

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## PRODUCTS INCLUDE:

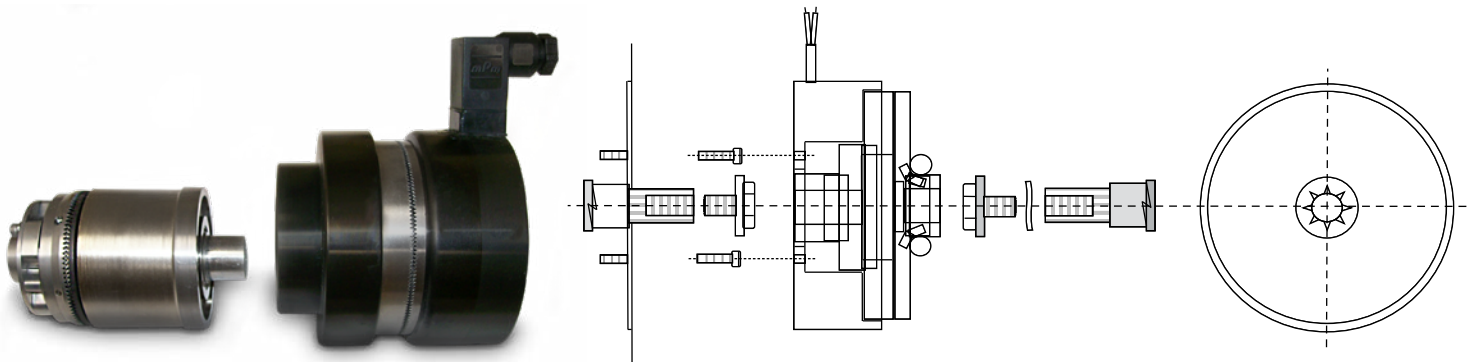
### SSB Power Off Brake

DC current is applied to the field coil releasing the brake rotor allowing free rotation. When the current is dropped, the brake is engaged by spring force.

### Electromagnetic Friction Brake

DC Current is applied to the field coil causing the rotor to clamp against a stationary friction surface thus stopping rotation. Current is dropped to release the brake.

- Friction Clutches
- Tooth Clutches
- Slip Clutches
- Permanent Magnet Clutches
- Magnetic Particle Clutches
- Clutch Couplings



## FORMSPRAG CLUTCH™

### Regal Rexnord

[formsprag.com](http://formsprag.com)

23601 Hoover Road  
Warren, MI 48089 - USA  
586-758-5000  
[regalrexnord.com](http://regalrexnord.com)

The proper selection and application of products and components, including assuring that the product is safe for its intended use, are the responsibility of the customer. To view our Application Considerations, please visit <https://www.regalrexnord.com/Application-Considerations>. To view our Standard Terms and Conditions of Sale, please visit <https://www.regalrexnord.com/Terms-and-Conditions-of-Sale>

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