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

www.formsprag.com
www.altra-aerospace-defense.com
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.

Pulse Brake
A DC Pulse is applied to the field coil releasing the brake rotor allowing freedom of rotation. A reverse polarity DC pulse is then applied causing the brake to come back on through the re-clamping of the rotor. Brake position latching can be provided by a permanent or residual magnetic field.

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