

*Ameridrives*

*Bibby Turboflex*

*Boston Gear*

*Delroyd Worm Gear*

*Formsprag Clutch*

*Industrial Clutch*

*Kilian*

*Nuttall Gear*

*Stieber*

*Thomson*

*Twiflex*

*Warner Electric*

*Wichita Clutch*

# Power Transmission Solutions for the Aerospace and Defense Markets



# Power Transmission Solutions for Aerospace and Defense

## EXPERTISE IN SOLUTIONS FOR THE AEROSPACE AND DEFENSE MARKETS

The companies of Regal Rexnord are dedicated to finding new and better ways of handling some of the most demanding electro-mechanical power transmission applications in the Aerospace and Defense Markets.

With instantly recognized industry-leading brand names, the companies of Regal Rexnord provide custom engineered electro-mechanical power transmission solutions to the Aerospace and Defense markets' top customers by applying the latest technologies in design, materials and manufacturing, and by thoroughly analyzing customer applications and calling upon extensive application experience. The result is a family of premier power transmission products that feature extraordinary performance and reliability, long life and outstanding value.



For over five decades, the Aerospace and Defense markets of the Americas, Europe, and Asia-Pacific have drawn upon the innovative products, application expertise and unrivaled creativity of the companies of Regal Rexnord. Whenever design criteria demand extra performance and proven reliability, the electro-mechanical power transmission products of Regal Rexnord meet the challenge anywhere around the world.

Regal Rexnord understands the unique requirements of international Aerospace and Defense markets and has in place the systems and processes to assure uninterrupted supply of product for both military and commercial applications. Because many Aerospace and Defense applications are considered flight safety and mission critical, we know and have established the systems and procedures necessary to support success.

- ISO 9001:2008
- AS9100 rev. C
- Customer delegated inspection
- Continuous improvement through the Regal Rexnord Business System

**[www.Altra-Aerospace-Defense.com](http://www.Altra-Aerospace-Defense.com)**



## SOLUTIONS FOR COMMERCIAL AND MILITARY FIXED WING AIRCRAFT

Your project may be a commercial mainline passenger transport, a cargo jet, or a regional jet. Or your project may be a military fighter jet or cargo-lifter. No matter the fixed wing aircraft type, **Regal Rexnord** has the expertise and creativity to solve your electro-mechanical power transmission challenges.

- **Formsprag Clutch** can offer a solution when a purely mechanical, one-way or bi-directional clutch or backstop is needed, such as in air turbine starters, auxiliary power unit (APU) starters, and accessory gearboxes.
- If an electric clutch or brake is the favored technology for the application, **Formsprag Clutch** and **Warner Electric** can meet your requirements with a custom clutch or brake for control and holding in applications including seat positioning, control surfaces, landing gears, and weapons positioning and loading.
- **Kilian** keeps things moving smoothly throughout fixed wing aircraft with its entirely custom-machined, rolling bearings and cargo roller products.



# Power Transmission Solutions for Aerospace and Defense



## SOLUTIONS FOR COMMERCIAL AND MILITARY ROTARY WING AIRCRAFT

Helicopters continue to prove their value in many useful ways from Emergency Medical Services to Off Shore Energy, from Search and Rescue to Air Support and Attack. Many of the major rotary wing aircraft manufacturers globally, trust only **Regal Rexnord** for assuring the right product to meet their needs.

- **Formsprag Clutch** is the overrunning clutch supplier of choice in all helicopter market segments for critical applications in main drives and accessories.
- **Formsprag Clutch** can provide the necessary electric clutch and brake for flight controls, actuation systems for weapons, radars, and optical systems.
- If main power transmission gears are the need, **Boston Gear** has the experience in providing custom gear solutions.
- **Ameridrives** high-performance, diaphragm couplings meet the requirements for a number of tailrotor couplings and other critical drive applications.





## SOLUTIONS FOR NAVAL SURFACE COMBATANTS, SUPPORT SHIPS, AND SUBMARINES

Naval ship requirements are some of the most demanding around. That's no problem for the companies of **Regal Rexnord** who have been meeting and exceeding the stringent requirements of the Naval and Marine markets for many years.

- **Ameridrives** high-performance diaphragm and gear couplings, as well as **Bibby Turboflex** disc couplings are well known in main propulsion drive layouts.
- **Ameridrives** universal joints, as well as **Bibby Turboflex** disc and **Ameridrives** Ameriflex couplings, can provide the necessary connection between engines and water jet drives.
- **Wichita Clutch** clutches and brakes and **Twiflex** caliper brakes have wide-spread applications as part of the main propulsion drives, as well as on aircraft platform lifts, compressor drives, and all sorts of ship deck equipment, including hoists, winches, cranes, and anchoring and mooring drives.
- **Delroyd Worm Gear** and **Nuttall Gear** offer a variety of gearing options for various drives, propulsion-related systems, elevators, hoists, anchor, mooring, storage, and ladder winch drives.
- If an electric clutch or brake is the requirement, **Warner Electric** can provide a systems solution having successfully met the requirements of a number of custom clutch and brake applications on some of the most demanding weapons loading and munitions handling systems ever produced for a naval ship.
- **Formsprag Clutch** has proven its abilities with successful mechanical bi-directional holding backstops on boat davits.



# Power Transmission Solutions for Aerospace and Defense



## SOLUTIONS FOR LAND-BASED COMBAT AND SUPPORT VEHICLES, TOWED EQUIPMENT, AND MOBILE SYSTEMS

Land forces are the largest component of most of the world's militaries. Since nations rely on their land forces and equipment as the primary means of defending their sovereignty, the equipment these forces use must be some of the most reliable and technically proven available. **Regal Rexnord** has helped defend homelands by providing products that get that job done.

- **Boston Gear** has been helping power turret drives for US forces with enclosed geardrives, while providing overload clutches, loose gears, and related components for expandable mobile shelter systems as well as winches and other mobile trailer systems.
- **Ameridrives** gear couplings and universal joints drive various wheeled and tracked vehicle systems, including a number of amphibious landing vehicles.
- **Twiflex** couplings have been successfully applied in the drivetrains on a variety of United Kingdom MOD vehicles.
- **Warner Electric** has solved numerous applications for custom-engineered clutches and brakes on turret and gun positioning drives, radar antenna holding, and other systems.
- **Thomson** supplies the actuation required for many ground systems including door assist and seating maneuverability mechanisms.
- Both **Formsprag Clutch** and **Stieber** can provide the solutions you need for mechanical, bi-directional holding brakes on turret and gun drives.



# Premier Industrial Company Leading Brands

## OTHER PRODUCT SOLUTIONS FROM **REGAL REXNORD**

Our comprehensive product offerings include various types of clutches and brakes, overrunning clutches, engineered bearing assemblies, gearing and gear motors along with linear motion products, belted drives, couplings, limit switches, precision motors, drives & controls, and miniature motors. With thousands of product solutions available, Regal Rexnord provides true single source convenience while meeting specific customer requirements. Many major OEMs and end users prefer Regal Rexnord products as their No. 1 choice for performance and reliability.

**WWW.REGALREXNORD.COM**



### **Electric Clutches & Brakes**

Stromag  
Warner Electric



### **Precision Motors & Automation**

Kollmorgen



### **Heavy Duty Clutches & Brakes**

Industrial Clutch  
Stromag  
Svendborg Brakes  
Twiflex  
Wichita Clutch



### **Miniature Motors**

Portescap



### **Overrunning Clutches**

Formsprag Clutch  
Marland Clutch  
Stieber



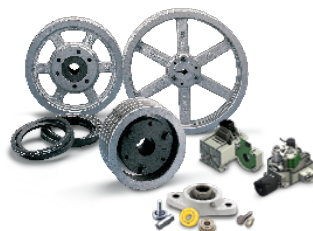
### **Linear Systems**

Thomson



### **Engineered Couplings & Universal Joints**

Ameridrives  
Bibby Turboflex  
Guardian Couplings  
Huco  
Lamiflex Couplings  
Stromag  
TB Wood's



### **Specialty Components**

Kilian  
Stromag  
TB Wood's



### **Gear Drives & Gear Motors**

Bauer Gear Motor  
Boston Gear  
Delroyd Worm Gear  
Nuttall Gear



Scan to see all  
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Regal Rexnord

