Traditional methods to mount hydraulic motors and/or gearboxes require expensive motor mounts and rely on flexible couplings. Failure to properly align shafts in these applications can lead to premature coupling failure, and consequent downtime. Additionally, misalignment can lead to hydraulic motor leaks and bearing failures due to inordinate radial loads on the motor bearings.

Even when these components are properly aligned these connections are subjected to outside elements that can affect alignment. Climax™ keyless rigid couplings are easy to install with simple hand tools, eliminating the need for brackets and expensive structure to support the motor, as well as installation misalignment. They contain no flexible elements saving maintenance costs and subsequent downtime. Torque mounting ensures that shafts are in perfect alignment, and C600s provide high torque and bending capacity eliminating bearing and motor failure. Shaft mounting your drive eliminates the issues that lead to premature motor failure.

Climax Metal Products carries a robust inventory of both straight and step-bore components and capabilities to engineer custom designs including stainless steel and various plating options for wash-down applications.

Target Markets / Applications

- Beef and Pork Processing Plants
  - C600 Couplings replace flexible couplings on power conveyors
- Food Processing Plants
  - C600 Couplings replace flexible couplings in specific applications in the batter and breading equipment

Engineered Shaft Locking Solutions
RBC has been producing bearings in the USA since 1919. In addition to unique custom bearings, RBC offers a full line of standard industrial and aerospace bearings, including:

- **Tapered Roller Thrust Bearings**
  - Case-hardened tapered roller thrust bearings for oilfield top drives and swivels. Available in full complement, maximum capacity versions.

- **Cylindrical Roller Bearings**
  - Cylindrical roller bearings designed for mud pump pinion and eccentric positions. Fully interchangeable to industry standards.

- **Spherical Plain Bearings**
  - Radial, angular contact, extended inner ring, high misalignment. QuadLube®, ImpactTuff®, SpreadLock®, Needle roller bearings ideal for cross head bearings applications. These double row bearings are available in single row and Tandem Roller® versions.

- **Needle Roller Bearings**
  - Pitchline® caged heavy duty needle roller bearings ideal for cross head bearings applications. These double row bearings are available in single row and Tandem Roller® versions.

- **Tapered Roller Bearings**
  - Single, double, & multi row versions available for main bearing positions in mud pumps, gear boxes, etc. Bearings are constructed of case hardened steel washers and rollers with bore size of 1" or greater.

- **Lubron™ Bearings**
  - Lubron® self-lubricating bearings designed and custom manufactured in most any size, material and bearing configuration. Applications include hydro power and water control, nuclear power generation, infrastructure, architecture, offshore marine, industrial, machinery and heavy equipment.

- **Rigid Couplings**
  - Shaft couplings serve as components to time, join, or align shafts at lower speeds and torque, especially when zero backlash is desired. Made from mild steel with a black oxide finish. Type 303 stainless steel, or aluminum. Available in inch and metric sizes.

- **Commercial Rod Ends**
  - Commercial and industrial, precision, Mil-Spec series, self-lubricating, and aircraft. Sold under the Heim®, Unibal®, and Spherco® names. Available in inch and metric sizes.

- **Cam Followers**
  - Standard stud, heavy stud, yoke type, caged roller followers. Patented RBC Roller® cylindrical roller cam followers, HexLube® universal cam followers, airframe track rollers.

- **Commercial Rod Ends**
  - Commercial and industrial, precision, Mil-Spec series, self-lubricating, and aircraft. Sold under the Heim®, Unibal®, and Spherco® names. Available in inch and metric sizes.

- **Shaft Collars**
  - Used to position or locate a component on a shaft. Made from mild steel, type 303 or 316 stainless steel, aluminum, or acetal. Available in inch and metric sizes.

- **Specials**
  - RBC manufactures many specialty bearings for the aerospace, oil and energy, semiconductor equipment, packaging, transportation, and other industries.

- **PIC Design®**
  - Complete line of precision gears, precision hardware, timing belts, pulleys, and linear motion systems. Industries served include industrial, aerospace, defense, medical, robotics and automation, material handling, and assembly. Custom design support for unique applications.

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