Altra Couplings offers the largest selection of industrial couplings available from a single source...worldwide.

The industry-leading brands of Altra Couplings, TB Wood’s, Ameridrives Couplings, Bibby Turboflex, Ameridrives Power Transmissions, Guardian Couplings, Huco Dynatork and Lamiflex Couplings, have been providing innovative coupling solutions to meet the requirements for a broad variety of applications spanning many industries. Highly engineered Altra coupling products represent the latest in coupling technology, featuring superior design and exceptional quality to ensure long-lasting performance in all types of environments.

www.AltraCouplings.com
Altra Couplings offers the largest selection of industrial couplings available from a single source... worldwide.

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High Performance Disc + Diaphragm Couplings

Ameriflex® by Ameridrives
Over 678 kNm; 6,000,000 in.lbs.
Unique diaphragm design permits high-torque density and low weight. Designed for years of dependable, low maintenance performance.
- Multiple, separated, convoluted diaphragms allow greatest design flexibility for most demanding applications
- API-671 compliant
- Best for high axial travel requirements

Ameridisc® by Ameridrives
Over 140 kNm; 1,240,000 in.lbs.
Optimized disc profile for even stress distribution. Proprietary disc coating to prevent fretting and corrosion. Designed for years of dependable, low-maintenance performance.
- Industry leader in power density
- API-671 compliant
- Best for reduced moment applications

TurboFlex HP by Bibby
Up to 600 kNm; 5,300,000 in.lbs.
These torsionally stiff, light weight couplings are capable of transmitting high torques at high speeds while accepting significant levels of angular, radial, and axial misalignment. They are easy to install, suitable for hostile environments, require no lubrication and feature a high torque to weight ratio. Specific designs are available which meet the customer’s exact requirements.

Typical Applications
- Gas and Steam Turbines
- Compressors
- Generators
- Pumps
- Marine/Offshore Platform
- Pipelines

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- Gas and Steam Turbines
- Compressors
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Typical Applications
- Gas and Steam Turbines
- Compressors
- Generators
- Pumps
- Marine/Offshore Platforms
- Pipelines
- Test equipment
**G-Flex**
by Bibby

Up to 169 kNm; 1,500,000 in.lbs.

State-of-the-art design from Bibby Turboflex, the original grid coupling manufacturer. G-Flex/Bibby 2000 Series is an all-metal coupling that provides positive protection against the damaging effects of shock loads and vibration. Aluminum horizontal cover (T10), and all-steel vertical cover (T20) designs are available. G-Flex tapered grid couplings are an excellent choice where torsional flexibility/vibration damping are primary concerns.

- Easy to assemble / replace
- Part-for-part interchangeable with industry standard tapered grid coupling designs
- Coupling sizes 1020 through 1140 in-stock in a range of standard bore sizes
- Shot-peened tapered grid flex element for long life

**Typical Applications**
- Pumps
- Gear Boxes
- Electric Motors
- Fans/Blowers
- Conveyors
- Compressors

**SM, SF, SL Series**
by Ameridrives

Up to 7,350 kNm; 65,000,000 in.lbs.

Designed for medium to high torque mill applications which require rugged strength. Units can operate at high misalignment angles.

- Flanged, leveler and mill types
- Fully crowned hub gear teeth
- One-piece, molded lip-type seals
- High degree of strength
- Advanced gear design increasing torque capacity for a given diameter

**Amerigear**
by Ameridrives

Up to 6,680 kNm; 60,000,000 in.lbs.

Fully-crowned gear teeth provide operational benefits including maximum load-carrying capacity with minimum size, maximum reliability and long life.

- Both “O” ring and metal seal models are available
- Strong, rigid floating sleeve
- Precision-machined identical hubs
- Positive dust-tight seals

**Series II**
by Bibby

Up to 147 kNm; 1,300,000 in.lbs.

Fully-crowned gear teeth provide maximum contact at the strongest part of the tooth.

- Models available for use on vertical and/or horizontal shafts
- Bore capacity up to 510 mm
- High torque to weight ratio
- Half per half interchangeability

**Typical Applications**
- Cranes and Hoists
- Elevators
- Offshore
- Draglines and Shovels
- Textile Machinery
- Fans/Blowers
- Air Compressors
- Ore Crushers
- Centrifugal Pumps

**Grid + Gear Couplings**

**Typical Applications**
- Steel Mill Main Drives for Cold and Hot Strip Mills
- Bar and Rod Mills
- Auxiliary Mill Drives
- Levelers

**Typical Applications**
- Pumps
- Gear Boxes
- Electric Motors
- Fans/Blowers
- Conveyors
- Compressors

**Typical Applications**
- Cranes and Hoists
- Elevators
- Offshore
- Draglines and Shovels
- Textile Machinery
- Fans/Blowers
- Air Compressors
- Ore Crushers
- Centrifugal Pumps

**Typical Applications**
- Steam Turbines
- Printing Presses
- High Torque Motors
**General Purpose Disc Couplings**

- **Form-Flex®** by TB Wood’s
  - Up to 270 kNm; 2,400,000 in.lbs.
  - Form-Flex metal disc couplings consist of two hubs, a spacer and two high strength carbon or stainless steel flexible discs. Modified and special designs are commonly supplied to meet specific application conditions. Available in carbon steel, stainless steel or with corrosion resistant coatings.
  - No maintenance
  - Zero backlash
  - Close couple, spacer and floating shaft designs available
  - Easy interchangeability

- **Floating Shafts** by TB Wood’s
  - Up to 270 kNm; 2,400,000 in.lbs.
  - Floating shaft couplings are specifically designed for long span applications from 24” to over 300”. Tru-Tube composite tubes (shown) can be specified for spans up to 220” (6 meters). Composite tubes weigh up to 80% less than steel and can eliminate the cost of bearing supports and other structures.
  - Horizontal or vertical applications
  - Custom designed to specification
  - Steel, stainless steel or composite tube construction

- **Turboflex GC®** by Ameridrives
  - Up to 180 kNm; 1,600,000 in.lbs.
  - GC Series couplings feature unitized, straight-sided flexible discs for ease of installation. Up-to-date design targeted specifically for heavy industrial applications. These couplings provide increased torque capacity per size by taking advantage of the latest materials and design technologies.
  - Unitized Flex Packs
  - Easier, faster installation
  - Interchangeable with industry standard designs
  - Fewer sizes to cover a full range of applications
  - Reduced spare parts inventory
  - Lower total cost of ownership
  - Special designs available for higher-torque applications

- **Torsiflex®** by Bibby
  - Up to 60 kNm; 530,000 in.lbs.
  - Torsiflex couplings are specifically designed for the process pump and general industrial markets. Torsiflex is an all-metal disc coupling requiring no lubrication which incorporates a plug-in feature to allow installation and removal without disturbing the pump alignment.
  - Standard units are compliant with API-610 (American Petroleum Institute) and the more demanding API-671 standard can be achieved.
  - In addition, the coupling is certified to meet ATEX 94/9/EC.
  - No maintenance
  - Zero backlash
  - Custom designs including close coupled, long spacer arrangements available
  - Easy interchangeability
  - Standard sizes available from stock

**Typical Applications**

- Pumps and Compressors
- Engine Driven Equipment
- Printing Presses
- Machine Tools
- Positioning Systems
- Food Processing Equipment
- Cooling Tower Fans
- Blowers and Ventilating Fans
- Test Equipment

**Typical Applications**

- Cooling Tower Fans
- Vertical Pumping Systems
- Mine Ventilation Fans
- Fans/Blowers
- Test Equipment

**Typical Applications**

- Compressors
- Engine Driven Equipment
- Ventilating Fans
- Pumps

**Typical Applications**

- Pumps
- Compressors
- Engine Driven Equipment
- Machine Tools
- Food Processing Equipment
- Blowers
- Ventilating Fans
- Test Equipment
### Torque Limiters

**Bibbigard** by Bibby

Up to 169 kNm; 38,000 lbf.†

Bibbigard safety element torque limiters incorporate a number of safety element modules of a specific size mounted between two flanges and preset to release at a specified torque value in order to protect the drive system from expensive damage and lost production. They can be used with various types of drive medium many of which are available from Altra Industrial Motion. Bibbigard has been successfully utilized in many different industries where, subject to space availability, the release torque capacity is virtually unlimited.

- Accurate release torque repeatability
- Simple fast manual re-engagement
- Low-cost maintenance
- Versatile mounting capability

### Locking Devices

**HLD & MLD Series** by Ameridrives

Up to 6,000 kNm; 4,425,372 ft.lbf.

Ameriloc® wind turbine shaft locking devices from Ameridrives provide secure shaft/hub connections.

- **Ameriloc HLD** (Hydraulic Locking Devices) provide significant time savings during installation. With larger diameters, such as 20.8 in. (530 mm), HLD units can be tensioned in only a few minutes. Hydraulic pump required for assembly.
- **Ameriloc MLD** (Mechanical Locking Device) units eliminate the need for keyways or splines, provide unlimited shaft positioning, and feature zero backlash, reduced shaft stress, and high contact pressure for greater torque. The MLD series can fit into smaller installations and requires standard tools to assemble.

### Universal Joints

**Americardan®** by Ameridrives PT

Up to 4,800 kNm; 42,450,000 in.lbs.

Designed for operation at high misalignment angles up to 15°. Bearing and seal design resists lubrication loss and contamination. Ideal for use in severe atmospheric conditions. Light and heavy-duty models available.

- One-piece, yoke and bearing housing construction
- High degree of strength with minimum distortion under load
- Round bearing and wing style designs available

### Powerflex®

**by Lamiflex**

Up to 230 kNm; 2,000,000 in.lbs.

Powerflex disc couplings are a reliable solution for a mechanical power transmission between drives (Turbines, Electrical Motors, Engines, etc.) and rotating driven machines. Modified and optimized disc profile provides a superior stress distribution.

The condition of the flexible units can be checked while the machine is running, also suitable for harsh environments while accepting high misalignments levels.

- No need for lubrication and maintenance
- Zero backlash, no wearing parts
- Visual inspection
- High level inherent balance

### Typical Applications

- Pumps
- Compressors
- Steam Turbines / Electric Motors
- Paper Machines
- Fans / Blowers
- Pipelines / Offshore Platforms

- Steel Mill Equipment
- Conveyor Drives
- Twin Screw Extruders
- Wood Grinding Machinery
- Ball Mill Drives
- Water Treatment Equipment
- Tunnel Boring Machines

- Wind Turbines

- Cement Mixers / Crushers
- Rubber Mixers
- Metal Shredders
- Mining Conveyors / Pumps / Off Highway Equipment
- Paper Calendars / Couch / Dryer / Mixer / Winder Rolls
- Irrigation Systems
- Primary Steel Rolling Mills
Elastomeric Couplings

**L-Jaw**
by TB Wood’s

Up to 0.70 kNm; 6,228 in.lbs.

The Jaw-type elastomeric coupling is an economical, proven solution for general purpose applications. Jaw couplings are easy to install and require no lubrication or maintenance. Four different flexible insert types are available: Buna-N rubber, Urethane, Hytrel™ and Bronze. Jaw couplings are an excellent choice for all light and medium duty general purpose industrial applications.

- No maintenance/lubrication
- Part-for-part interchangeable with industry standard design
- Fail-safe design – equipment will continue to drive if elastomer fails
- Wide range of in-stock inch and metric bore sizes

**Sure-Flex® Plus**
by TB Wood’s

Up to 8.20 kNm; 72,480 in.lbs.

Sure-Flex Plus is a TB Wood’s original! Sure-Flex Plus Couplings utilize a rubber (EPDM or Neoprene) or Hytrel™ thermoplastic flex element (sleeve) to transmit torque and accommodate shaft misalignments. Sure-Flex Plus couplings have exceptional torsional flexibility, and the 4-way flexing action absorbs virtually all types of shock, vibration, misalignment, and end float. Sure-flex Plus couplings are an excellent choice when low cost, high flexibility, vibration damping, and easy installation are primary concerns.

- Easy assembly
- Spacer, bushed hub, and clamping hub designs in stock
- Flexible design accommodates misalignment and protects equipment

**Dura-Flex®**
by TB Wood’s

Up to 4.50 kNm; 39,500 in.lbs.

Dura-flex couplings “split-in-half” element design allows for easy element installation/ replacement without moving connected equipment or disturbing the shaft connection. Spacer design can accommodate a large range of shaft spacing with few parts. Patented design minimizes bond stress for long coupling life. Highly flexible and able to accommodate shaft misalignment while minimizing vibration and preventing damage to connected equipment.

- Easy to assemble/replace
- High misalignment ratings
- No maintenance/lubrication
- Part-for-part interchangeable with industry standard design
- In-stock versatile spacer design can accommodate many configurations with few parts

**E-Flex**
by Bibby

Up to 96 kNm; 850,000 in.lbs.

These pin and bush couplings accept parallel, angular and axial misalignment and can provide considerable torsional flexibility.

- Vertical or horizontal operation
- 80 or 90 shore hardness close fitting flexible elements
- Steel or cast iron hubs
- Brake drum or disc available as well as special designs

**Typical Applications**
- Pumps
- Fans/Blowers
- Electric Motors
- Compressors

**Typical Applications**
- Pumps
- Fans/Blowers
- Compressors
- Electric Motors
- Mixers
- Conveyors

**Typical Applications**
- Pumps
- Fan Drives
- Various Steelworks Drives
- Twin Screw Extruder Drives
- Packaging Machinery

**Typical Applications**
- Pumps
- Fan Drives
- Various Steelworks Drives
- Twin Screw Extruder Drives
- Packaging Machinery
Oldham, Uni-Lat, Flex P
by Huco
Up to 44 Nm; 389 in.lbs.

Oldham Zero/low backlash couplings, robust design. Easy to use 3-part couplings with replaceable wear elements. Pull-apart re-engage facility for blind assemblies.

Uni-Lat Unique, light-duty couplings with generous angular and radial misalignment compensation. Resists axial motion, can anchor unrestricted shafts and perform light push/pull duties.

Flex P Exceptional flexibility in all three directions: radial, angular and axial.

Typical Applications
- Stepper drives
- Encoders
- Resolvers
- Tachometers
- Potentiometer Drives
- Small Positioning Slides
- Dosing Pumps
- Light power drives
- Small Generators

Flex B Bellows
Precision Bellows coupling with excellent kinematic properties. Two types offer differing combinations of stiffness, misalignment and axial motion.

Flex K Large Bellows
Large Precision Bellows coupling with excellent kinematic properties. Two types offer differing combinations of stiffness, misalignment and axial motion.

Flex M Disc
Precision Disc coupling with excellent kinematic properties. Dynamically balanced construction. Single-stage versions make up into ‘whirl’ free Cardans. Two-stage versions offer short envelopes and low bearing loads.

Multi Beam
Zero backlash single-piece couplings. Single stage (3-beam); two stage (6-beam). Material options available for moisture and corrosion resistance.

Single Beam
Zero backlash single-piece couplings. More flexible than Multi-Beam but less torsionally rigid.

Step Beam
Unique plastic coupling design provides an excellent combination of radial flexibility with torsional stiffness.

Vari-Tork
by Huco
Up to 3 Nm; 27 in.lbs.

Small, user-adjustable torque limiters for concentric or in-line mounting. Operates by friction using interleaved clutch plates. Friction clutches interrupt rotation when the load being transmitted reaches a pre-determined threshold. Clutches help protect personnel and equipment.

Typical Applications
- All types of small drives

Typical Applications
- High-End Servo Drives
- Pulse Generators
- Scanners
- Positioning Slides
- High Speed Dynamometers
- Unsupported Drive Shafts
- Metering Valves

Typical Applications
- Stepper and Servo Drives
- Encoders
- General Purpose
- Tachometers
- Small Pumps
- Motors and Drives
- Light-Duty Power Transmission Applications
**Coupling Guards**

**Coupguard®**
by Lamiflex

Several Sizes available

The Coupguard® is an effective and safe solution to protect people from moving hazards, also protect equipment and components from external and environmental damage. Coupguard® is easy to assemble and they also can be opened or removed to inspect the coupling or other connection parts after proper lock out procedures have been followed. Coupguard are sized to overall applications and can accommodate a wide range of equipment and shaft coupling types.

- Low Initial Cost
- Hinged door open quickly for inspection
- Safety Compliance and Orange in color
- Ambient Temperatures up to 155°C
- Axial and Radial air flow
- Length and height adjustment
- Custom design available
- Petrobras Patented Product
- API / ANSI / ABNT standards

**Typical Applications**

- Pumps
- Compressors
- Fans
- Steam turbines
- Conveyors
- Paper Machines

**Bearing Isolators**

**Ecoblock®, Ecobearing®**
by Lamiflex

Sizes up to 200mm / 4.5 inches

Innovation, technology, and bearing life are the main reason to use bearing isolators. Bearing isolators are a non-contact, non-wearing, permanent bearing protection devices. They prevent humidity and external contamination, retains lubrication and provides static and dynamic sealing for all kinds of bearing box used in the industry.

- **Ecoblock**
  It is an economical solution for general purpose applications retrofitting lip seals and other bearings contacting sealing.
- **Ecobearing** – (Petrobras Patent)
  Are specially designed to meet the API specifications.

- Zero oil or grease leakage
- Environment protection
- Increasing bearing life and MTBF
- Static and dynamic sealing
- Non-contact, Non-wearing
- Standard sizes available from stock

**Typical Applications**

- Electric Motors
- Pumps
- Gearboxes
- Pillow block
- Steam turbines
- Fans
- Oil mist
Introducing Guardian Couplings

For more than 70 years, Guardian has been designing and manufacturing world-class couplings and other power transmission components. Utilizing advanced manufacturing technologies and processes, Guardian provides highly-reliable coupling and component solutions to meet the most challenging industrial application requirements.

Guardian provides a wide range of standard and custom products including flywheel couplings, hydraulic pump mounts, bearing supported stub shafts, flexible shaft-to-shaft couplings, motion control couplings as well as compression pipe couplings.

Durable Guardian products are utilized in key industries including mobile hydraulics, farm & ag, tree care, concrete, food & beverage, material handling, automation, power generation, and oil & gas on applications such as skid steers, aerial lifts, harvesters, wood chippers, concrete pumps, dewatering pumps, baggage handlers, conveyors, robotics, compressors, and generator sets.

Brochures

Pump Mounting Plates
P-7714-GC

Guard-Flex Flywheel Couplings
P-7717-GC

Engine Housings
P-7715-GC

FH Flywheel Coupling
P-7716-GC

FBA Flywheel Couplings
P-7718-GC

DELT A Series Flywheel Couplings
P-7719-GC

Download Guardian literature and Application Profiles from www.AltraLiterature.com

Website

For more information visit www.GuardianCouplings.com
### Heavy Duty Clutches and Brakes Cont.

- **Wichita Clutch**
  - Pneumatic Clutches and Brakes
  - Wichita Falls, TX - USA
  - 1-800-964-3262
  - Bedford, England
  - +44 (0) 1234 350311

### Linear Products

- **Warner Linear**
  - Linear Actuators
  - Belvidere, IL - USA
  - 1-800-285-8944
  - For application assistance: 1-800-905-0200
  - Saint Barthélemy d’Anjou, France
  - +33 (0) 41 21 24 24

### Overrunning Clutches

- **Formsprag Clutch**
  - Overrunning Clutches and Holdbacks
  - Warren, MI - USA
  - 1-800-348-0881
  - For application assistance: 1-800-348-0881 – Press #2

### Overrunning Clutches Cont.

- **Marland Clutch**
  - Roller Ramp and Sprag Type Overrunning Couplings and Brakes
  - South Beloit, IL - USA
  - 1-800-465-1515

### Altra Couplings Group

<table>
<thead>
<tr>
<th>Company</th>
<th>Phone Numbers</th>
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<tbody>
<tr>
<td>TB Wood’s</td>
<td>1-888-829-6637 – Press #5</td>
</tr>
<tr>
<td></td>
<td>+44 (0) 1992 501900</td>
</tr>
<tr>
<td>Bibby Turboflex</td>
<td>1-800-779-6993</td>
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<td>Guardian Couplings</td>
<td>1-219-874-5248</td>
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<td>Huco Dynatork</td>
<td>1-888-829-6637 – Press #5</td>
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<td>Ameridrives Couplings</td>
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<td>Lamiflex Couplings</td>
<td>1-888-829-6637 – Press #5</td>
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<td>+44 (0) 1992 501900</td>
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<td>Kilian Manufacturing</td>
<td>1-888-829-6637 – Press #5</td>
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<td>Warner Electric</td>
<td>1-888-829-6637 – Press #5</td>
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<td>Nuttall Gear and Delroyd Worm Gear</td>
<td>1-800-825-6544</td>
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<tr>
<td>Svendborg Brakes</td>
<td>1-888-829-6637 – Press #5</td>
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<td>Twiflex Limited</td>
<td>1-888-829-6637 – Press #5</td>
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For information concerning our sales offices in Asia Pacific check our website: www.altramotion.com.cn