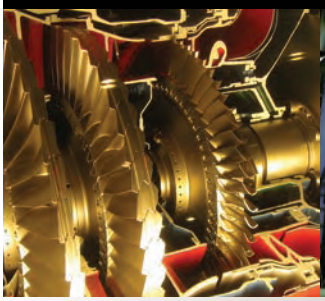




Altra Couplings offers the largest selection of industrial couplings available from a single source... worldwide.

For over 150 years, TB Wood's, Ameridrives, Bibby Transmissions, Ameridrives Power Transmissions, and Huco, the industry-leading brands of Altra 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.

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

Typical Applications

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

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

Typical Applications

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

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.

Standard units are compliant with API 671 (American Petroleum Institute) and ATEX 94/9/EC.

- No maintenance
- Standard and reduced moment designs available
- Capable of being torsionally tuned to suit specific machinery requirements

Typical Applications

- Gas and Steam Turbines
- Compressors
- Generators
- Pumps
- Marine/Offshore Platforms
- Pipelines
- Test equipment

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

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

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

Typical Applications

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

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

Typical Applications

- Compressors
- Engine Driven Equipment
- Ventilating Fans
- Pumps

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
- Compressors
- Engine Driven Equipment
- Machine Tools
- Food Processing Equipment
- Blowers
- Ventilating Fans
- Test Equipment





Gear Spindles

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

Typical Applications

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

Grid + Gear Couplings

G-Flex
by Bibby

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

State-of-the-art design from Bibby Transmissions, 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

Amerigear
by Ameridrives

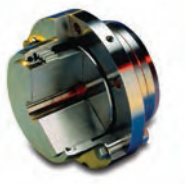
Up to 6,680 kNm; 60,000,000 in.lbs.

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

Typical Applications

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



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

- Steam Turbines
- Printing Presses
- High Torque Motors

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

Typical Applications

- 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

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

*Tangential force per module

Typical Applications

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

Locking Devices

HLD & MLD Series
by Ameridrives

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

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.

Typical Applications

- Wind Turbines

Internal/External/Shaft
by Ameridrives

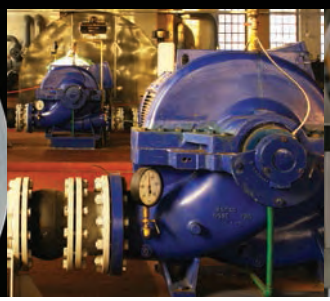
Up to 5,835 kNm; 4,303,675 ft.lb.

Ameriloc® internal and external locking devices and shaft couplings are custom-engineered, manufactured, and tested to precise tolerances to meet specific customer requirements and provide years of trouble-free service.

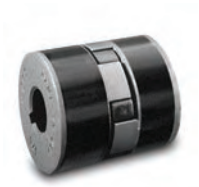
Units eliminate the need for keyways, splines, or hydraulic hubs; allowing for unlimited shaft positioning. Pre-assembled units are easy to install and remove using standard tools. Features include zero backlash, reduced shaft stress, and high contact pressure for greater torque. Tight contact prevents contamination in high dust and moisture environments.

Typical Applications

- Test Stands
- Printing Presses
- Mining Crushers
- Meat Processing
- Compressors
- Pulp & Paper
- Cranes
- Steel 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

Typical Applications

- Pumps
- Fans/Blowers
- Electric Motors
- Compressors

Sure-Flex®
by TB Wood's

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

Sure-Flex is a TB Wood's original! Sure-Flex Couplings utilize a rubber (EPDM or Neoprene) or Hytrel™ thermoplastic flex element (sleeve) to transmit torque and accommodate shaft misalignments. Sure-Flex couplings have exceptional torsional flexibility, and the 4-way flexing action absorbs virtually all types of shock, vibration, misalignment, and end float. Sure-flex 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

Typical Applications

- Pumps
- Fans/Blowers
- Compressors
- Electric Motors
- Mixers
- Conveyors

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

Typical Applications

- Pumps
- Fans/Blowers
- Compressors
- Electric Motors
- Conveyors

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
- Fan Drives
- Various Steelworks Drives
- Twin Screw Extruder Drives
- Packaging Machinery

Precision Couplings

Flex B, Flex K, Flex M
by Huco

Up to 500 Nm; 4,425 in.lbs.

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.

Typical Applications

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

Multi, Single, Step Beam
by Huco

Up to 140 Nm; 1,239 in.lbs.

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.

Typical Applications

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

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

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