

Industrial Couplings



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

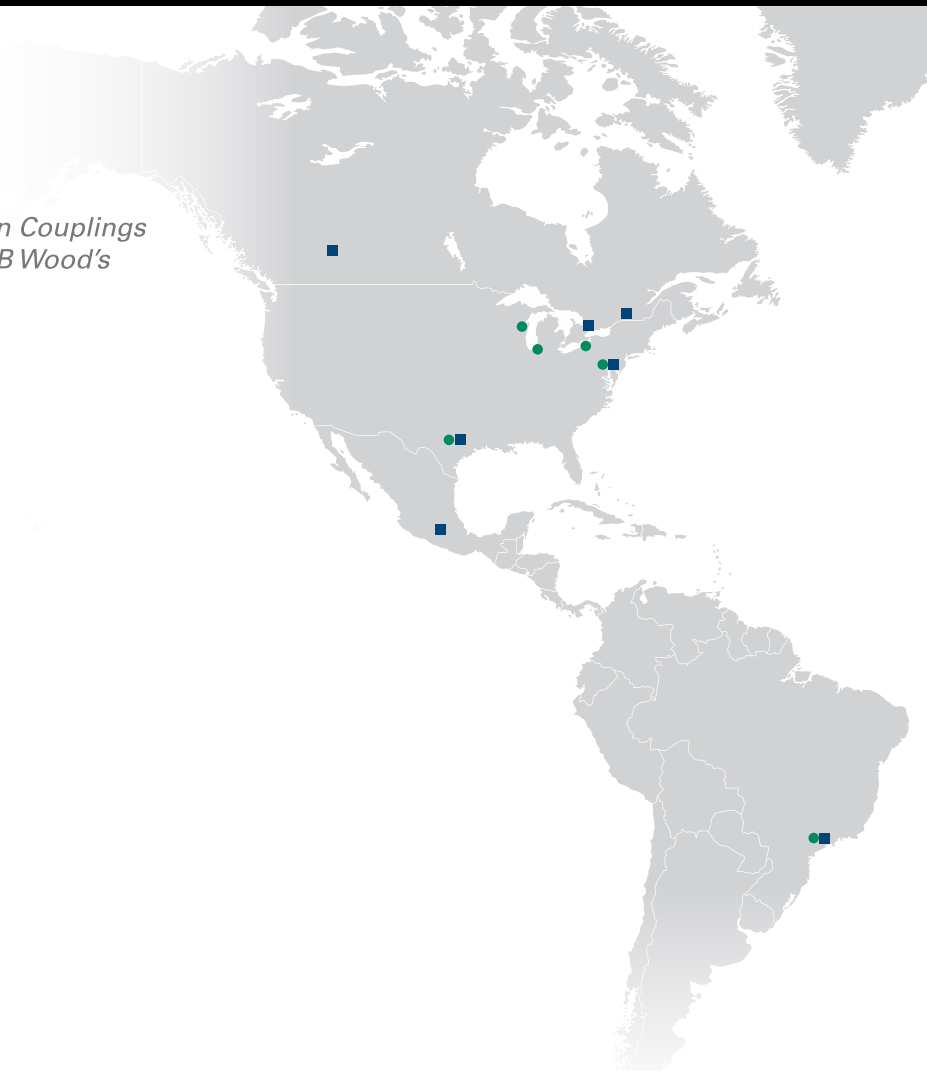


Ameridrives • Bibby Turboflex • Guardian Couplings
Huco • Lamiflex Couplings • Stromag • TB Wood's

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, Bibby Turboflex, Guardian Couplings, Huco 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



- Manufacturing/Modification Center with Technical Support
- Regional Distribution Center with Technical Support

Product Family	Primary Brand	Product Lines	TBW
			Chambersburg, PA
Precision Couplings	Huco	Huco	■
Elastomer Shaft Couplings	TB Wood's	Sure-Flex Plus®, Dura-Flex®, L-Jaw	●
	Guardian	Guardian	
Engine Flywheel Couplings & Housings	Guardian		
General Industrial Disc Couplings	TB Wood's	Form-Flex®, Torsiflex-i	
	Bibby	Torsiflex®, Turboflex	
	Lamiflex	Powerflex	
General Industrial Gear Couplings	Ameridrives	Amerigear	
	Bibby	Bibby Series 3	
Grid Couplings	Bibby	Grid	
	TB Wood's	G-Flex	●
Universal Joints	Ameridrives	Americardan®	
High Performance Diaphragm Couplings	Ameridrives	Ameriflex®	
High Performance Disc Couplings	Bibby	Turboflex	



Manufacturing Locations								Global Service Offices					
North America			EMEA			South America	Asia/Pacific	North America		Asia/Pacific			
TBW-AMD San Marcos, TX	Ameridrives Erie, PA	Guardian Michigan City, IN	Bibby Dewsbury UK	Huco Hertford UK	Bibby South Africa	Lamiflex Cotia Brazil	AIMS Shenzen China	TBW Canada Missassauga, Montreal, Edmonton	TBW Mexico Mexico City	Altra Hong Kong	Altra Taiwan	Altra Singapore	Altra Australia
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Altra Couplings offers the largest selection of industrial couplings available from a single source...worldwide.

For over 150 years, TB Wood's, Ameridrives, Bibby Turboflex, Guardian, Huco and Lamiflex, 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



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 2014/34/EU.

- 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

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 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



Amerigear by Ameridrives

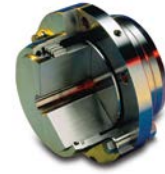
Up to 6,680 kNm; 60,000,000 in.lbs.

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

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 2014/34/EU.

- 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

TORQUE LIMITERS



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



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 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

Typical Applications

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

UNIVERSAL JOINTS



Americardan® by Ameridrives

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

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 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

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

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

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**, **Huco**, **Bibby Turboflex**, **Ameridrives**, **Guardian Couplings** 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



ELASTOMERIC COUPLINGS

TB Wood's
Bibby Turboflex
Guardian Couplings



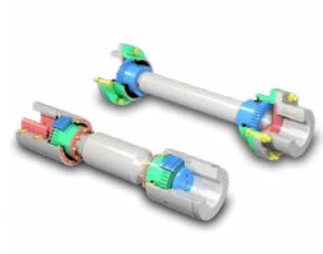
GRID & GEAR COUPLINGS

Bibby Turboflex
Ameridrives



COUPLING GUARDS & BEARING ISOLATORS

Lamiflex Couplings



GEAR SPINDLES

Ameridrives



UNIVERSAL JOINTS

Ameridrives



TORQUE LIMITERS

Bibby Turboflex



PRECISION COUPLINGS

Huco
Guardian Couplings



FLYWHEEL COUPLINGS, ENGINE HOUSINGS & PUMP MOUNTS

Guardian Couplings
TB Wood's



HIGH PERFORMANCE DISC & DIAPHRAGM COUPLINGS

Ameridrives
Bibby Turboflex
Lamiflex Couplings



GENERAL PURPOSE DISC COUPLINGS

TB Wood's
Ameridrives
Bibby Turboflex
Lamiflex Couplings

Altra Couplings Contact Information

NORTH AMERICA

Ameridrives

Mill Spindles, Ameriflex,
Turboflex
Erie, PA - USA
1-814-480-5000

Ameridrives

Gear Couplings, Amerigear
San Marcos, TX - USA
1-800-458-0887

Ameridrives

Universal Joints, Drive
Shafts, Mill Gear Couplings,
Americardan
Erie, PA - USA
1-920-593-2444

Guardian Couplings

Engineered Flywheel
Couplings, Engine Housings
and Pump Mounts, Flexible
Shaft Couplings
Michigan City, IN - USA
1-219-874-5248

Huco

Precision Couplings and
Air Motors, Sure-Flex Plus,
Dura-Flex, L-Jaw, Guardian,
Bibby Series 3, Grid
Chambersburg, PA - USA
1-888-829-6637

TB Wood's

Elastomeric Couplings,
Huco, Sure-Flex Plus,
Dura-Flex, L-Jaw, G-Flex
Chambersburg, PA - USA
1-888-829-6637 – Press #5
For application assistance:
1-888-829-6637 – Press #7

TB Wood's

General Purpose Disc
Couplings, Form-Flex,
Torsiflex-i, Torsiflex,
Turboflex, Lamidisc,
San Marcos, TX - USA
1-888-449-9439

TB Wood's

Sure-Flex Plus, Dura-Flex,
L-Jaw, Form-Flex,
Torsiflex-i, Amerigear,
G-Flex
Mexico City, Mexico
1-800-700-6500

TB Wood's

Sure-Flex Plus, Dura-
Flex, L-Jaw, Form-Flex,
Torsiflex-i, G-Flex
Mississauga, ON - Canada
1-905-696-2546

TB Wood's

Sure-Flex Plus, Dura-
Flex®, L-Jaw, Form-Flex,
Torsiflex-i, G-Flex
Edmonton, AB - Canada
1-780-439-7979

TB Wood's

Sure-Flex Plus, Dura-
Flex, L-Jaw, Form-Flex,
Torsiflex-i, G-Flex
Montreal, QC - Canada
1-514-332-4812

ASIA PACIFIC

China - Hong Kong

Huco, Sure-Flex Plus,
Dura-Flex, L-Jaw,
Amerigear, Grid,
Americardan, Ameriflex
Hong Kong - China
852 2615 9313

China - Shenzhen

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Turboflex, Amerigear, Grid,
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Amerigear, Grid, Ameriflex
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EUROPE

Bibby Turboflex

Disc, Gear, Grid Couplings,
Overload Clutches, Form-
Flex, Torsiflex-i, Torsiflex,
Turboflex, Lamidisc,
Ameriflex, Turboflex
Dewsbury, England
+44 (0) 1924 460801

Huco

Precision Couplings and
Air Motors, Sure-Flex Plus,
Dura-Flex, L-Jaw, Guardian,
Bibby Series 3, Grid
Hertford, England
+44 (0) 1992 501900

AFRICA

Bibby Turboflex

Sure-Flex Plus, Dura-
Flex, L-Jaw, Form-Flex,
Torsiflex-i, Torsiflex,
Turboflex, Bibby Series
3, Grid
Boksburg, South Africa
+27(0) 11 918 4270

SOUTH AMERICA

Lamiflex Couplings

Flexible Couplings, Bearing
Isolators, and Coupling
Guards, Huco, Sure-Flex
Plus, Dura-Flex, L-Jaw,
Lamidisc, Turboflex
Cotia, SP - Brasil
+55 (11) 4615-6300

The Brands of **Altra Motion**

Ameridrives

Bauer Gear Motor

Bibby Turboflex

Boston Gear

Delevan

Delroyd Worm Gear

Deltran

Formsprag Clutch

Guardian Couplings

Huco

Jacobs Vehicle Systems

Kilian

Kollmorgen

Lamiflex Couplings

Marland Clutch

Matrix

Nuttall Gear

Portescap

Stieber

Stromag

Svendborg Brakes

TB Wood's

Thomson

Twiflex

Warner Electric

Warner Linear

Wichita Clutch

