

Altra High
Performance
Couplings

Altra Couplings®
TB Wood's · Ameridrives · Huco

Bibby Turboflex • Lamiflex

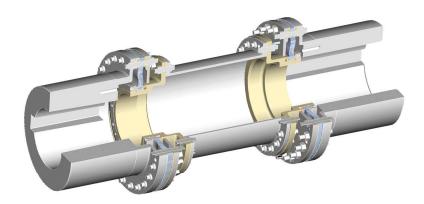
The World Leader in Industrial Coupling Technology





Ameridrives Couplings

Ameriflex Diaphragm Coupling

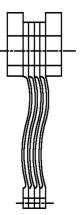


Since its introduction in 1971, the Ameriflex multiple convoluted diaphragm coupling has continued to set new standards for life and reliability in high performance machinery applications. Today, by using the latest design and manufacturing technology, Ameridrives Couplings is able to offer increased diaphragm coupling performance without compromising this outstanding reliability.

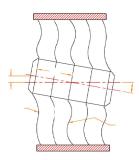
Advanced analysis and manufacturing processes have produced increased ratings without reducing safety factors. The use of the latest finite element analysis methods verified by strain gage and dynamic testing has allowed for a more precise calculation of the Ameriflex diaphragm stresses.

Features:

- Designed for infinite life
- High torque to diameter and weight ratio
- Diaphragms are 15-5PH stainless steel
- Diaphragms are shot-peened for improved fatigue strength and corrosion resistance
- Low bending moments and axial force result in lower bearing loads
- High axial travel
- Multiple separated diaphragms provide a built in safety feature.
 Failure is gradual with reduced offset stress in remaining diaphragms
- Design flexibility by changing the number of diaphragms
- Field replaceable flex-element assemblies
- API-671 Compliant



15-5 PH Stainless Diaphragm Pack



Thin Convoluted Diaphragm





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Ameridrives Couplings

Ameridisc High Performance Disc Coupling



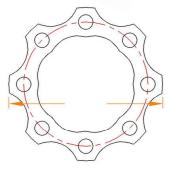
Introduced in 2005, the Ameridisc coupling was developed using advanced FEA with strain gage verification. Considered the most technically advanced disc coupling offering, it provides reliable performance for critical turbomachinery applications. It is particularly suited for high speed, turbocompressor trains where a lightweight, reduced moment design is required to meet rotor dynamic issues.

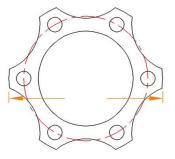


- Optimized disc profile results in uniform stress distribution
- Industry leader in power density and bore capacity
- Proprietary disc coating prevents fretting and corrosion
- Discs available in 301 stainless steel. Inconel and Monel
- Black oxide, heat treated, alloy steel torque transmitting components are standard
- API-671 compliant
- Optional "fail-safe" co-planar design













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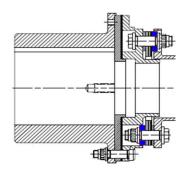
Turboflex HF High Performance Disc Couplings

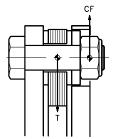


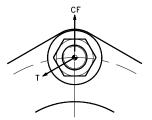
Bibby Turboflex has been a market leader in flexible couplings for over 80 years. The Turboflex profiled disc coupling was first introduced to the high performance market in 1958 and today has tens of thousands of couplings in operation. This extensive experience, developed on providing solutions to the most challenging turbomachinery applications, offers a high quality flexible coupling at a lower cost than other brands.

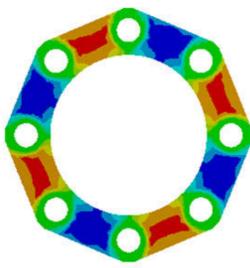
Features:

- Power dense polygon shaped disc
- Blade edge has relatively low stresses
- Oversized fasteners means high torque and the ability to transmit torque through flange face friction. They also eliminate the need to coat the disc
- Blades can be stamped providing a more economical solution
- API- 671 and ISO 10441 compliant
- Standard fail-safe Monel overload bushings











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Lamiflex Couplings

Powerflex Couplings for Critical Applications





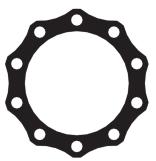
The Powerflex PWH couplings have a unique design that provides a highly reliable flexible connection for critical equipment. This coupling uses the latest manufacturing processes to ensure exceptional quality and long lasting perforance.

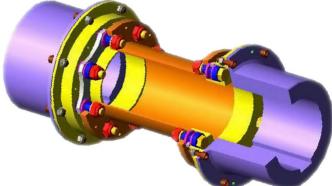
Features:

- Over 214 KNm; 1.900.000 in. LBs of Torque
- Designed for low weight, high speed and anti-flail
- 100% local content
- Economic solution for intermediary rotations
- Applicable in pumps, fans, turbines and others











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Altra Couplings Service Center

Dedicated Petrobras Service for Critical Equipment Couplings

The most experienced engineer team offers:

- Quick turnaround service for breakdowns
- Complete refurbishment and inspection services
- Recommended spare component replacements
- Failure analysis
- Vertical and horizontal balancing
- Field services
- Coupling retrofits/reverse engineering
- Service center for Torquetronic torquemeter coupling systems





The power of one, the strength of many.

Other product solutions from

Altra Industrial Motion

Our comprehensive product offering is comprised of nine major categories including electromagnetic clutches and brakes, heavy duty clutches and brakes, overrunning clutches, gearing, engineered couplings, engineered bearing assemblies, linear products and belted drives. With thousands of product solutions available, Altra provides true single source convenience while meeting specific customer requirements. Many major OEM's and end users prefer Altra products as their No.1 choice for performance and reliability.

www.altramotion.com



Electromagnetic Clutches and Brakes

Warner Electric Inertia Dynamics Matrix International



Engineered Couplings and Universal Joints

TB Wood's Ameridrives Couplings Ameridrives Power Transmission Bibby Turboflex Lamiflex Couplings



Linear Products

Warner Linear



Heavy Duty Clutches and Brakes

Wichita Clutch Twiflex Limited Industrial Clutch



Belted Drives and Sheaves

TB Wood's



Gearing

Boston Gear Nuttall Gear Delroyd Worm Gear Bauer Gear Motor

Overrunning

Clutches

Formsprag Clutch

Marland Clutch

Stieber Clutch



Engineered Bearing Assemblies

Kilian Manufacturing



Precision Couplings and Air Motors

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Altra Industrial Motion

All Customer Service phone numbers shown in bold

Electromagnetic Clutches and Brakes

Warner Electric

Electromagnetic Clutches and Brakes

New Hartford, CT - USA 1-800-825-6544

For application assistance: 1-800-825-9050

St Barthelemy d'Anjou, France +33 (0) 2 41 21 24 24

Precision Electric Coils and Electromagnetic Clutches and

Columbia City, IN - USA 1-260-244-6183

Matrix International

Electromagnetic Clutches and Brakes, Pressure Operated Clutches and Brakes

Brechin, Scotland +44 (0) 1356 602000

New Hartford, CT - USA 1-800-825-6544

Inertia Dynamics

Spring Set Brakes; Power On and Wrap Spring Clutch/Brakes New Hartford, CT - USA 1-800-800-6445

Linear Products

Warner Linear

Linear Actuators Belvidere, IL - USA 1-800-825-6544

For application assistance: 1-800-825-9050

St Barthelemy d'Anjou, France +33 (0) 2 41 21 24 24

Couplings

Ameridrives Couplings

Mill Spindles, Ameriflex,

Erie, PA - USA 1-814-480-5000

Gear Couplings

San Marcos, TX - USA 1-800-458-0887

Bibby Turboflex

Disc, Gear, Grid Couplings, Overload Clutches

Dewsbury, England +44 (0) 1924 460801

Boksburg, South Africa +27 11 918 4270

TB Wood's

Elastomeric Couplings Chambersburg, PA - USA 1-888-829-6637- Press #5

For application assistance: 1-888-829-6637 - Press #7

General Purpose Disc Couplings

San Marcos, TX - USA 1-888-449-9439

Ameridrives Power **Transmission**

Universal Joints, Drive Shafts, Mill Gear Couplings Green Bay, WI - USA 1-920-593-2444

Huco Dynatork

Precision Couplings and Air Motors

Hertford, England +44 (0) 1992 501900

Chambersburg, PA - USA 1-888-829-6637

Lamiflex Couplings

Flexible Couplings, Bearing Isolators, and Coupling Guards

São Paulo, SP - Brasil +55-11-5679-6533

Heavy Duty Clutches and Brakes

Wichita Clutch

Pneumatic Clutches and Brakes

Wichita Falls, TX - USA 1-800-964-3262

Bedford, England +44 (0) 1234 350311

Twiflex Limited

Caliper Brakes and Thrusters Twickenham, England

+44 (0) 20 8894 1161

Industrial Clutch

Pneumatic and Oil Immersed Clutches and Brakes

Waukesha, WI - USA 1-262-547-3357

Gearing

Boston Gear

Enclosed and Open Gearing, Electrical and Mechanical P.T. Components

Charlotte, NC - USA 1-800-825-6544

For application assistance: 1-800-816-5608

Bauer Gear Motor

Geared Motors

Esslingen, Germany +49 (711) 3518 0

Somerset, NJ - USA 1-732-469-8770

Nuttall Gear and Delroyd Worm Gear

Worm Gear and Helical Speed Reducers

Niagara Falls, NY - USA 1-716-298-4100

Overrunning Clutches

Formsprag Clutch

Overrunning Clutches and Holdbacks

Warren, MI - USA 1-800-348-0881- Press #1

For application assistance: 1-800-348-0881 - Press #2

Marland Clutch

Roller Ramp and Sprag Type Overrunning Clutches and Backstops

South Beloit, IL - USA 1-800-216-3515

Stieher Clutch

Overrunning Clutches and Holdbacks

Heidelberg, Germany +49 (0) 6221 30 47 0

Belted Drives and Sheaves

TB Wood's

Belted Drives

Chambersburg, PA - USA 1-888-829-6637 – Press #5

For application assistance: 1-888-829-6637 — Press #7

Kilian Manufacturing

Engineered Bearing Assemblies

Syracuse, NY - USA 1-315-432-0700

For information concerning our sales offices in Asia Pacific check our website www.altramotion.com.cn



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