



**Turboflex Plus**  
**High**  
**Performance**  
**Disc Coupling**



## ALTRA HIGH PERFORMANCE DISC COUPLINGS

Two leading international flexible coupling manufacturers, Ameridrives® International and Bibby Turboflex introduce a new series of high performance disc couplings designed to meet the stringent requirements of today's turbomachinery market. The Turboflex Plus combines the proven Turboflex and Ameridisc disc couplings together with the experience of the Ameriflex diaphragm producing a coupling as ideally suited to sensitive high speed turbocompressors as it is to low speed load couplings whilst offering an economical solution and being fully compliant API-671/ISO10441 for critical oil and gas, energy, and petrochemical applications. Altra Couplings are selected where quality and reliability are essential to the operation of a plant.



## COMPANY HISTORY

Ameridrives Couplings, originally established in 1928 as the Mechanical Drives Division of Zurn Industries, has pioneered many coupling designs throughout the years. Introduced in 1972, the Ameriflex multiple, convoluted, diaphragm couplings is still considered the world's best high performance flexible coupling.

Bibby Turboflex was originally established in 1917 under the direction of Dr. James Bibby, inventor of the resilient grid coupling, and has since been a market leader in flexible couplings. 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.

[www.Ameridrives.com](http://www.Ameridrives.com)   [www.BibbyTurboflex.com](http://www.BibbyTurboflex.com)

### **Turboflex Plus** FEATURES AND ADVANTAGES:

- Scalloped profile disc pack optimized for high speed compressor applications
- Cost reduced, economical solution for today's turbomachinery market
- Fully compliant to API-671/ISO10441
- Disc material – 300 series stainless, Inconel option
- Coated or uncoated discs
- Phosphate coating standard on components
- Shrouded fasteners for reduced windage

## Turboflex Plus COUPLING DESIGNS



### Series MS

#### Marine Style

- Largest bore capacity
- Integral flange designs available
- High torque design
- Factory assembled center section simplifies installation
- Standard anti-flail system for increased safety
- Optional windage designs available

#### Typical Applications

- Marine drives
- Power Generation
- Turbine to Gearbox/Compressor



### Series RH

#### Reduced Moment

- Reverse Hub
- Low overhung moment
- Large bore capacity
- High torque design
- Standard reduced windage design

#### Typical Applications

- High speed compressor applications where low overhung mass is required
- Refining / Petrochemical processes



### Series RM

#### Reduced Moment

- Lowest overhung moment
- Large bore capacity
- High torque design
- Standard reduced windage design
- Co-planar design for increased momentary torque overload protection

#### Typical Applications

- Critical high speed compressor applications where minimal overhung moment is the primary design driver
- Refining / Petrochemical processes

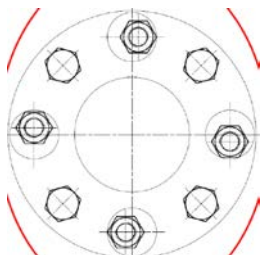
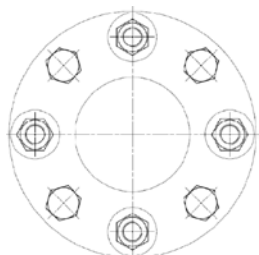
## Turboflex Plus IS DESIGNED WITH OVERLOAD PROTECTION FEATURES TO LIMIT SECONDARY DAMAGE IN THE EVENT OF A DISC PACK FAILURE

In either design, machinery vibration will increase but the drive will be maintained sufficiently for the unit to be shut down.

### Marine Style



Standard on the MS series, the interlocking flange arrangement utilizes the fasteners in clearance holes to allow components to shift slightly in the event of a disc pack failure and act as a simple pin & bush coupling.



### Series RM

#### Reduced Moment



An optional coplanar design is used as a back-up drive to prevent steam turbine "runaway" and as a temporary fail-safe device to limit secondary damage. This design also offers the lowest overhung moment for laterally sensitive compressors.

**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

**Couplings**

**Ameridrives**

*Mill Spindles, Ameriflex, Ameridisc*

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

*Gear Couplings*

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

*Universal Joints, Drive Shafts, Mill Gear Couplings*

Erie, PA - USA  
**1-920-593-2444**

**Bibby Turboflex**

*Disc, Gear, Grid Couplings, Overload Clutches*

Dewsbury, England  
**+44 (0) 1924 460801**

Boksburg, South Africa  
**+27(0) 11 918 4270**

**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*

Hertford, England  
**+44 (0) 1992 501900**

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

**Lamiflex Couplings**

*Flexible Couplings, Bearing Isolators, and Coupling Guards*

Cotia, SP - Brasil  
**+55 (11) 4615-6300**

**Couplings Cont.**

**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**

**Electromagnetic Clutches and Brakes**

**Inertia Dynamics**

*Spring Set Brakes; Power On and Wrap Spring Clutch/Brakes*

New Hartford, CT - USA  
**1-800-800-6445**

**Matrix**

*Electromagnetic Clutches and Brakes, Pressure Operated Clutches and Brakes*

Brechin, Scotland  
**+44 (0) 1356 602000**

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

**Warner Electric**

*Electromagnetic Clutches and Brakes*

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

*For application assistance:*  
 1-800-825-9050

Saint Barthélemy d'Anjou, France  
**+33 (0)2 41 21 24 24**

*Precision Electric Coils and Electromagnetic Clutches and Brakes*

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

**Engineered Bearing Assemblies**

**Kilian**

*Engineered Bearing Assemblies*

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

**Gearing**

**Bauer Gear Motor**

*Geared Motors*

Esslingen, Germany  
**+49 (711) 3518-0**

Middlesex, NJ - USA  
**1-732-469-8770**

**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

**Nuttall Gear and Delroyd Worm Gear**

*Worm Gear and Helical Speed Reducers*

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

**Heavy Duty Clutches and Brakes**

**Industrial Clutch**

*Pneumatic and Oil Immersed Clutches and Brakes*

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

**Svendborg Brakes**

*Industrial Brakes and Brake Systems*

Vejstrup, Denmark  
**+45 63 255 255**

**Twiflex**

*Caliper Brakes and Thrusters*

Wichita Falls, TX - USA  
**1-844-723-3483**

Twickenham, England  
**+44 (0) 20 8894 1161**

**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*

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

*For application assistance:*  
 1-800-825-9050

Saint Barthélemy d'Anjou, France  
**+33 (0)2 41 21 24 24**

**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*

Warren, MI - USA  
**1-800-216-3515**

**Stieber Clutch**

*Overrunning Clutches and Holdbacks*

Heidelberg, Germany  
**+49 (0) 6221-30470**

For information concerning our sales offices in Asia Pacific check our website [www.altramotion.com.cn](http://www.altramotion.com.cn)



[www.ameridrives.com](http://www.ameridrives.com)

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