



Turboflex Plus
High
Performance
Disc Coupling



 **Ameridrives[®]**
Altra Industrial Motion

 **Bibby Turboflex[®]**
Altra Industrial Motion

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 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

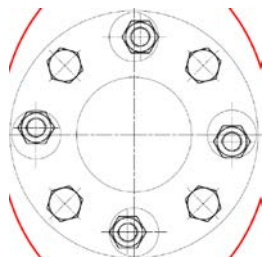
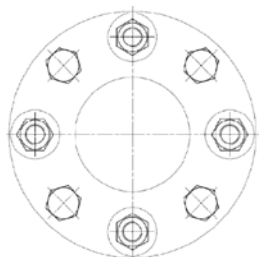
Turboflex Plus IS DESIGNED WITH OVERLOAD PROTECTION FEATURES TO LIMIT SECONDARY DAMAGE IN THE EVENT OF A DISC PACK FAILURE

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.

Ameridrives Facilities

North America

1802 Pittsburgh Avenue
Erie, PA 16502 - USA
814-480-5000

*Mill Spindles, Ameriflex, Ameridisc,
Universal Joints, Drive Shafts,
Mill Gear Couplings*

2000 Clovis Barker Road
San Marcos, TX 78666 - USA
888-449-9439

Gear Couplings

Bibby Turboflex Facilities

Europe

Cannon Way, Dewsbury
West Yorkshire WF13 1EH - England
+44(0) 1924 460801

*Disc, Gear, Grid Couplings,
Overload Clutches*

Africa

Unit 11, Middle Park, Cnr. Craig &
Dormehl Roads
Anderbolt, Boksburg, P.O. Box 16524
Atlasville, 1465 - South Africa
+27(0) 11 918-4270

*Disc, Gear, Grid Couplings,
Overload Clutches*

The Brands of Altra Industrial Motion

Couplings

Ameridrives
www.ameridrives.com

Bibby Turboflex
www.bibbyturboflex.com

Guardian Couplings
www.guardiancouplings.com

Huco
www.huco.com

Lamiflex Couplings
www.lamiflexcouplings.com

Stromag
www.stromag.com

TB Wood's
www.tbwoods.com

Gear Cam Limit Switches

Stromag
www.stromag.com

Electric Clutches & Brakes

Inertia Dynamics
www.idicb.com

Matrix
www.matrix-international.com

Stromag
www.stromag.com

Warner Electric
www.warnerelectric.com

Linear Products

Warner Linear
www.warnerlinear.com

Engineered Bearing Assemblies

Kilian
www.kilianbearings.com

Heavy Duty Clutches & Brakes

Industrial Clutch
www.indclutch.com

Twiflex
www.twiflex.com

Stromag
www.stromag.com

Svendborg Brakes
www.svendborg-brakes.com

Wichita Clutch
www.wichitaclutch.com

Belted Drives

TB Wood's
www.tbwoods.com

Gearing

Bauer Gear Motor
www.bauergears.com

Boston Gear
www.bostongear.com

Delroyd Worm Gear
www.delroyd.com

Nuttall Gear
www.nuttallgear.com

Overrunning Clutches

Formsprag Clutch
www.formsprag.com

Marland Clutch
www.marland.com

Stieber
www.stieberclutch.com

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