



Ameridrives High Performance Couplings



 **Ameridrives[®]**
Couplings

An Altra Industrial Motion Company



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.

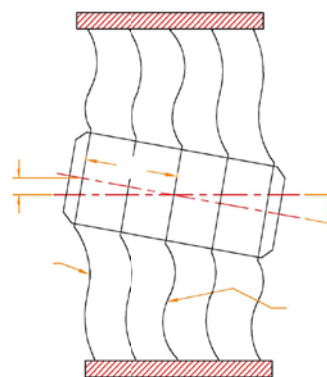
Advanced analysis and manufacturing processes have produced increased ratings without reducing safety factors. The use of the latest finite element analysis methods verified by strain gage and dynamic testing has allowed for a more precise calculation of the Ameriflex diaphragm stresses.

Features

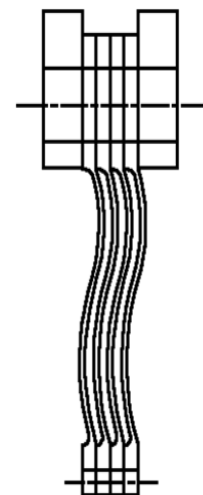
- High torque to weight and diameter ratio.
- Flex element sub-assemblies are field replaceable.
- Diaphragms are 15-5 PH stainless steel.
- Diaphragms are designed for infinite life using FEA verified testing.
- Customized designs are available for unique applications.
- Multiple separated diaphragms provide a built-in, fail-safe feature.
- Diaphragms are shot-peened for improved fatigue strength and stress corrosion resistance.
- Diaphragms capable of operating in extreme environments without protective coatings.
- All Ameriflex couplings are manufactured to API-671 requirements.
- Maintenance free for years of dependable performance.
- Black oxidized, heat treated, alloy steel torque transmitting components are standard.
- Low bending moment and axial force while maintaining high torque capacity, resulting in lower bearing loads.

Typical Applications

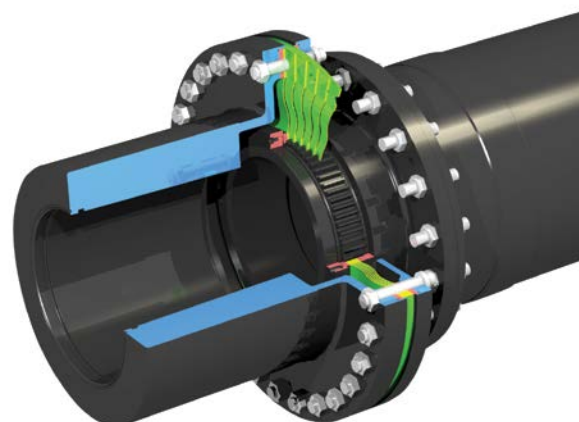
- Gas and Steam Turbines
- Compressors
- Generators
- Pumps
- Marine/Offshore Platform
- Pipelines



Thin Convoluted Diaphragm



15-5 PH Stainless Diaphragm Pack





AMERIDRIVES COUPLINGS

Ameridisc High Performance Disc Coupling

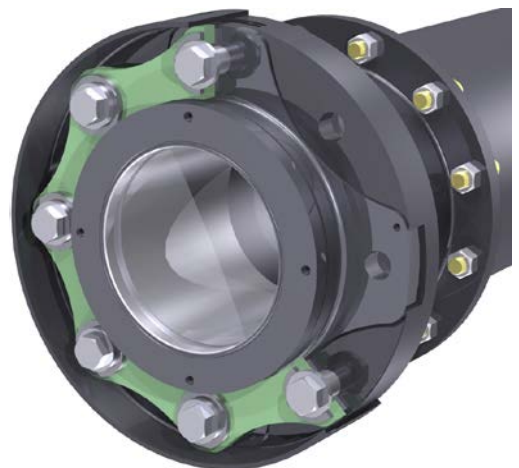
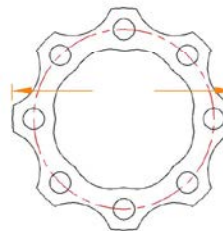
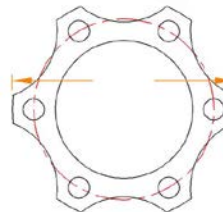
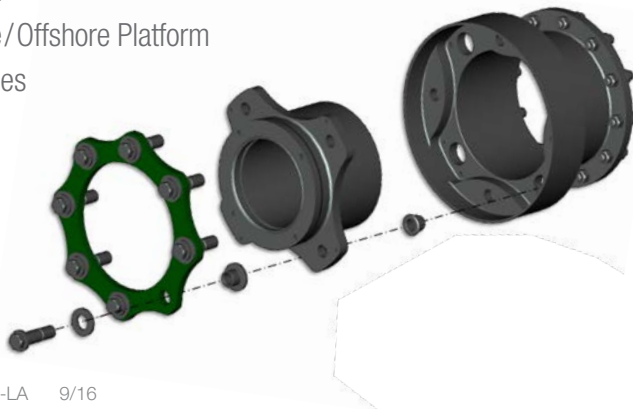
Introduced in 2005, the Ameridisc coupling was developed using advanced FEA with strain gage verification. Considered the most technically advanced disc coupling offered, it provides reliable performance for critical turbomachinery applications. It is particularly suited for high speed, turbocompressor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

Features

- Multi-scalloped, optimized disc profile results in even stress distribution.
- Proprietary disc coating to prevent fretting and corrosion.
- Custom pack fasteners allow for an optimized bolted connection.
- Finite Element Analysis (FEA) on all components including discs.
- Complete static and dynamic strain gage verification of FEA Ameridrives Research & Development Laboratory.
- Designed for API-671 & ISO 10441 compliance.
- No lubrication for maintenance free operation.
- Discs available in Inconel and 301 Stainless Steel.
- Improved dynamic balance.
- Low bending and axial reaction loads.
- Designed to operate at full ratings simultaneously.
- Industry leader in power density and bore capacity.

Typical Applications

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



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 Couplings

Mill Spindles, Ameriflex, Ameridisc

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

Gear Couplings

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

Ameridrives Power Transmission

Universal Joints, Drive Shafts, Mill Gear Couplings

Green Bay, WI - USA
1-920-593-2444

Bibby Turboflex

Disc, Gear, Grid Couplings, Overload Clutches

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+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

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Precision Couplings and Air Motors

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Couplings Cont.

Lamiflex Couplings

Flexible Couplings, Bearing Isolators, and Coupling Guards

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

TB Wood's

Elastomeric Couplings

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General Purpose Disc Couplings

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1-888-449-9439

Electromagnetic Clutches and Brakes

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

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Matrix International

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1-800-825-6544

Warner Electric

Electromagnetic Clutches and Brakes

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

For application assistance:
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Saint Barthélemy d'Anjou, France
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Engineered Bearing Assemblies

Kilian Manufacturing

Engineered Bearing Assemblies

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

Gearing

Bauer Gear Motor

Gearred Motors

Esslingen, Germany
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1-732-469-8770

Boston Gear

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

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1-800-825-6544

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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 Limited

Caliper Brakes and Thrusters

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

Twickenham, England
+44 (0) 20 8894 1161

Heavy Duty Clutches and Brakes Cont.

Wichita Clutch

Pneumatic Clutches and Brakes

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Bedford, England
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Warner Linear

Linear Actuators

Belvidere, IL - USA
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For application assistance:
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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

South Beloit, IL - 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



www.ameridrives.com

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