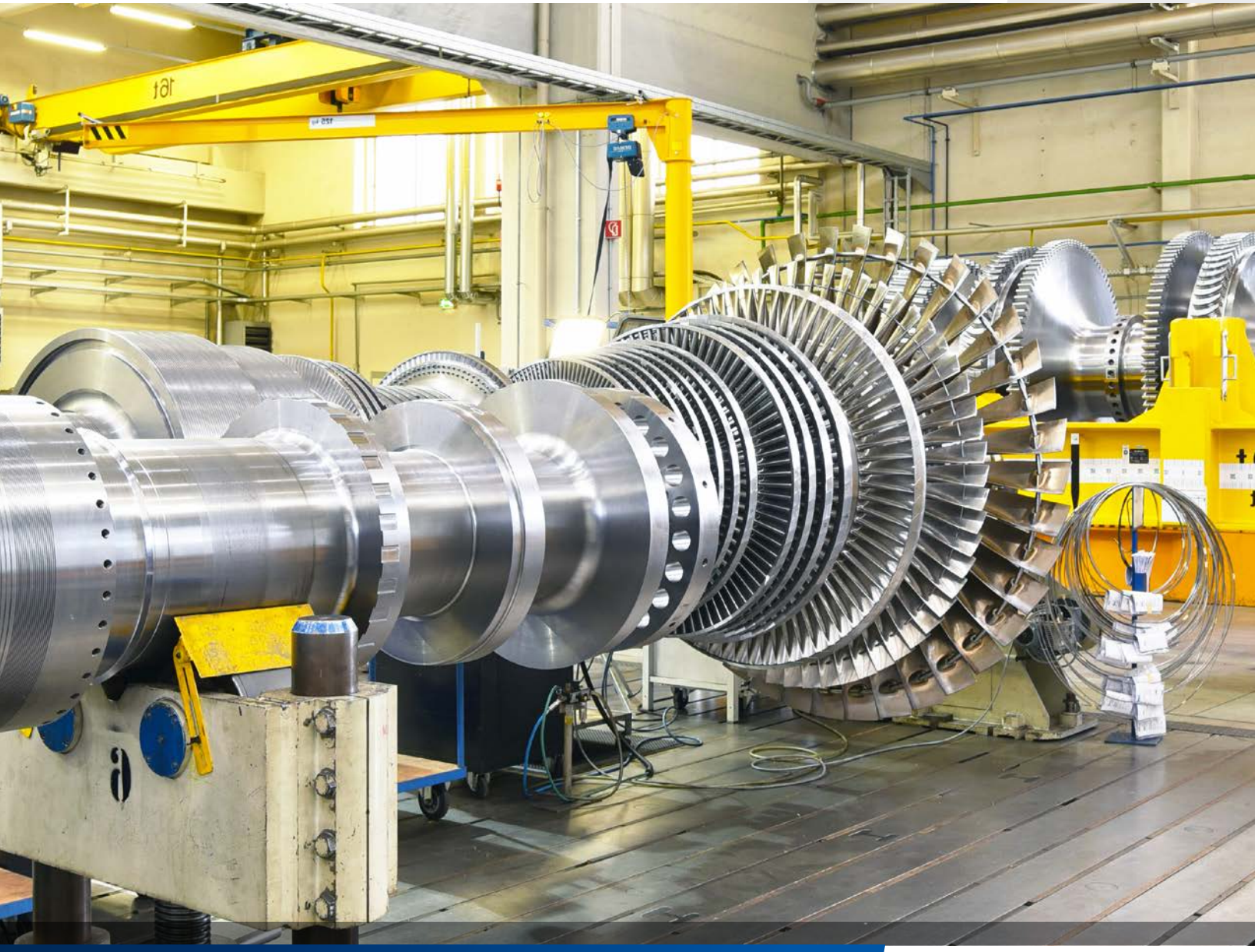
RegalRexnord™



High-Performance Coupling Solutions

FOR TURBOMACHINERY APPLICATIONS

AMERIDRIVES™ BIBBY TURBOFLEX™ EUROFLEX™ KOP-FLEX™

HIGH-PERFORMANCE COUPLING SOLUTIONS FOR TURBOMACHINERY APPLICATIONS

At Regal Rexnord, we're driven by a commitment to create a better tomorrow through sustainable solutions that power, transmit, and control motion. Backed by a global manufacturing footprint and a portfolio of trusted brands, our Industrial Powertrain Solutions serve a wide range of industries—from mining and marine to oil and gas—with precision-engineered components designed for exceptional reliability, efficiency, and long-term performance.

We deliver high-performance shaft coupling solutions for turbomachinery driveline applications through our trusted brands, including Ameridrives, Bibby Turboflex, Euroflex, and Kop-Flex. Our portfolio features precision-engineered diaphragm and disc couplings optimized for high-speed operations, as well as advanced torque monitoring technologies such as Powerlign™ 2.0—each designed to maximize the efficiency and reliability of your most critical assets.

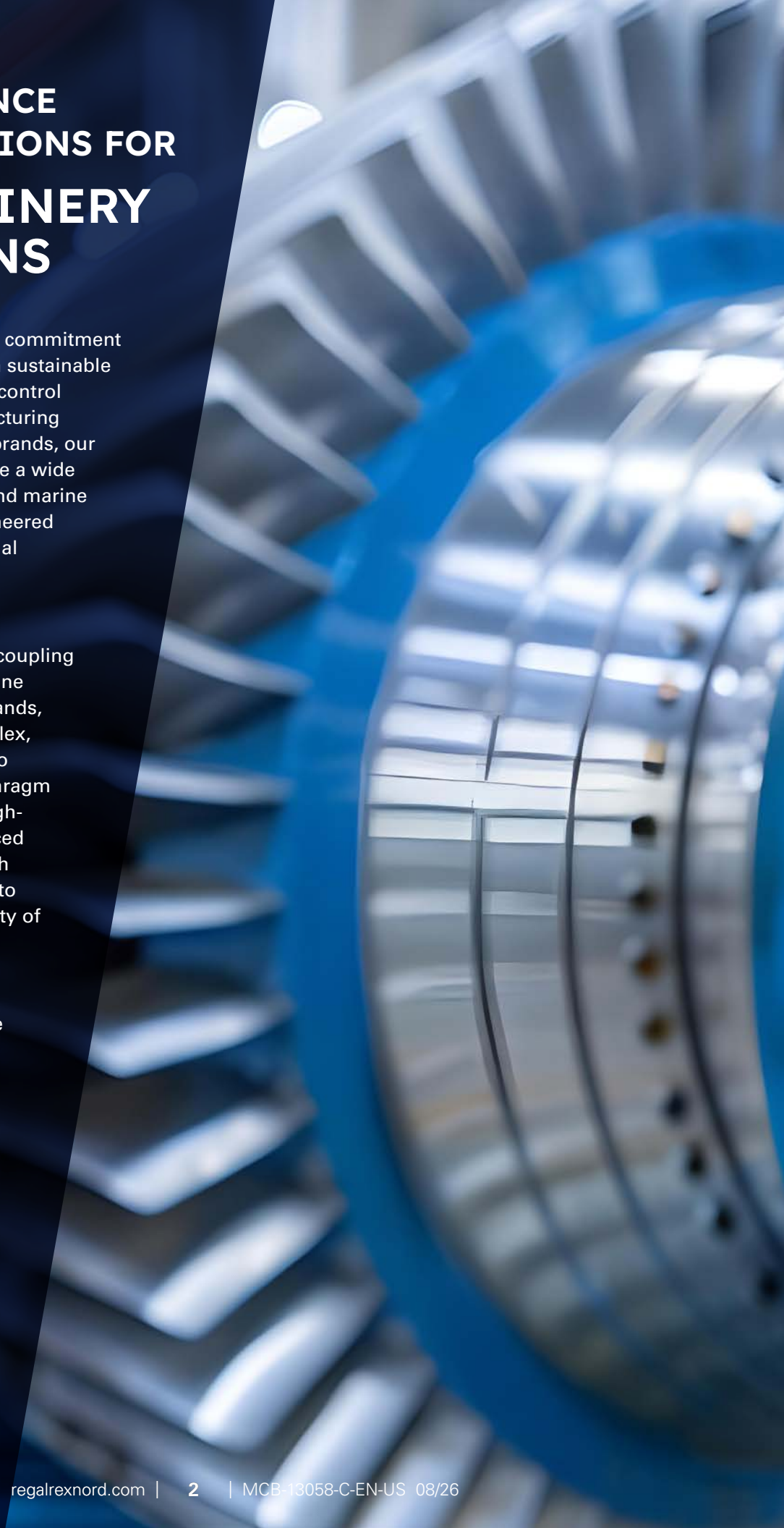
To further support long-term performance, our High-Performance Coupling Recertification Service enables proactive maintenance planning, helping reduce downtime and extend equipment life.

Ameridrives

Bibby Turboflex

Euroflex

Kop-Flex





RELIABILITY

EXPERTISE

INDUSTRY OBJECTIVES

SAFETY

EFFICIENCY

REGAL REXNORD
MISSION

Regal Rexnord provides solutions that help our customers increase their productivity by maximizing efficiency. By enhancing the efficiency of power transmission systems through reliable components, we significantly reduce downtime due to component failure. Our industry expertise focuses on minimizing downtime through the development of highly-reliable, highly-efficient solutions that improve overall productivity and output. This approach ensures our customers benefit from increased uptime while simplifying overall system design.

High-Performance Coupling Solutions
FOR TURBOMACHINERY APPLICATIONS

When reliability is non-negotiable, Regal Rexnord's high-performance coupling portfolio delivers. Featuring the trusted Kop-Flex, Ameridrives, Bibby Turboflex, and Euroflex brands, our solutions combine proven engineering, application-specific designs, and global support to serve the most demanding turbomachinery installations.

KOP-FLEX

Kop-Flex™ high-performance couplings are built on a legacy of smart innovation, combining deep industry heritage with a solution-oriented design philosophy driven by direct customer input. Engineered for reliable, continuous operation, Kop-Flex offers a broad portfolio of disc and diaphragm coupling solutions for demanding turbomachinery applications across power generation, petrochemical, refinery, LNG, and pipeline industries. Kop-Flex couplings have extensive speed and power capabilities and designs that are compliant with API and ISO standards.

AMERIDRIVES

Since its introduction in 1971, the Ameriflex™ multiple-convoluted diaphragm coupling has set the standard for reliability and infinite life in high-performance turbomachinery. Today, it builds on that legacy through advanced design, finite element analysis, and validated testing. The integral filler diaphragm pack, manufactured using state-of-the-art processes and standard 15-5 PH stainless steel, delivers increased torque capacity and optimized stress distribution while maintaining conservative safety factors and full interchangeability. With low axial and bending stiffness to reduce bearing loads, Ameriflex couplings are a versatile, highly reliable solution tailored to the demanding requirements of modern turbomachinery.

GLOBAL MANUFACTURING AND RECERTIFICATION LOCATIONS



NORTH AMERICA

Florence, Kentucky (135k ft²/12.5k m²)

Primary: Kop-Flex Disc & Diaphragm
Secondary: Ameridrives™ Components
Coupling Recertification

Erie, Pennsylvania (81k ft²/7.5k m²)

Primary: Ameridrives Disc & Diaphragm
Secondary: Kop-Flex Disc

SOUTH AMERICA

São Paulo, Brazil (16k ft²/1.5k m²)

Coupling Recertification

BIBBY TURBOFLEX

Bibby Turboflex has over 80 years of leadership in flexible couplings, delivering high-performance disc coupling solutions since pioneering the profiled design in 1958. With tens of thousands of units in operation, their experience covers a wide range of applications, from power generation in navy and marine vessels to specialized long-span and mass-critical composite tube solutions for motor car powerplant testing. Backed by continuous innovation, precision manufacturing, and proven engineering expertise, Bibby Turboflex provides reliable, tailored coupling solutions for virtually any torque or speed requirement.

EUROFLEX

Euroflex™ couplings of Hyderabad began in 1991 as a joint Indo-UK engineering venture specializing in the design and configuration of high-performance disc couplings. Over time it evolved into a globally integrated manufacturer, and since 2014 it has been part of the Rexnord (now Regal Rexnord) industrial group, continuing to serve demanding turbine and industrial applications worldwide.



EUROPE

Nove Mesto, Slovakia (96k ft²/8.9k m²)

Primary: Kop-Flex™ Disc & Diaphragm
Bibby™ Turboflex™ Disc

Secondary: Components
Coupling Recertification

ASIA

Hyderabad, India (199k ft²/18.5k m²)

Primary: Euroflex Disc
Bibby Turboflex Disc

Secondary: Components
Coupling Recertification

Zhangzhou, China (6.5k ft²/600 m²)

Coupling Recertification

AUSTRALIA

Sydney, NSW (15k ft²/1.4k m²)

Coupling Recertification

Over a Century of High-Performance Reliability

A flexible rotating coupling must perform two tasks: transmit torque from the driving to the driven shaft and accommodate for shaft misalignment. Regal Rexnord high-performance couplings are designed specifically to accomplish these tasks for demanding rotating equipment applications such as centrifugal and axial compressors, generator sets, test stands, marine propulsion drives, gas and steam turbines, high-speed gear boxes, and boiler feed pumps. Regal Rexnord turbomachinery couplings are precisely machined, carefully assembled, and dynamically balanced according to the industry's highest standards and tightest tolerances. Regal Rexnord turbomachinery couplings and components are installed and available across the world.

BEHIND-THE-METER POWER ISLANDS FOR AI DATA CENTERS

As AI data centers deploy dedicated power islands to ensure uptime and energy security, gas turbine and engine generator sets require highly-reliable coupling solutions. Regal Rexnord couplings—such as Kop-Flex™ high-performance disc couplings and Ameriflex™ diaphragm couplings—provide the axial softness, misalignment capability, and operational reliability needed to protect critical assets and maintain continuous power transfer. Their proven performance in high-speed turbomachinery environments supports the stringent uptime expectations of hyperscaler facilities.

GAS PIPELINE COMPRESSOR STATIONS WITH REMOTE CONDITION MONITORING

Pipeline compressor stations demand durable, low-maintenance couplings that can operate continuously in remote and often harsh environments. Kop-Flex diaphragm and Bibby™ Turboflex™ disc couplings offer high torque capacity and long service life, while accommodating thermal growth and misalignment in compressor trains. Their compatibility with condition monitoring systems such as Regal Rexnord's Powerlign™ 2.0 torque monitoring system enables predictive maintenance strategies, reducing downtime and enhancing system reliability across long distance pipeline networks.

GAS TURBINE-DRIVEN COMPRESSOR TRAINS FOR LNG LIQUEFACTION AND EXPORT

LNG facilities rely on high-speed gas turbine-driven compressor trains operating under extreme loads and narrow operating envelopes. Ameriflex diaphragm couplings and Kop-Flex reduced moment disc couplings deliver the high torsional rigidity and balance quality required for these demanding applications. Regal Rexnord solutions support efficient power transmission while minimizing vibration and maintenance requirements, helping operators maximize throughput and uptime in mission-critical liquefaction processes.



STEAM TURBINE-DRIVEN COMPRESSOR STRINGS FOR PETROCHEMICAL PLANTS

Ethylene production involves large steam turbine-driven compressor strings requiring robust and precise coupling performance. Kop-Flex and Ameridrives™ couplings excel in handling the high torque, thermal expansion, and axial movement that is typical in these environments. Their ability to maintain alignment integrity and reduce transmitted forces to connected equipment enhances reliability and extends the operating life of compressors and turbines.

INDUSTRIAL POWER FOR SYNCHRONOUS MOTOR-DRIVEN COMPRESSOR TRAINS

Synchronous motor-driven compressor systems demand couplings that can handle high torque while maintaining precise alignment and minimal backlash. Bibby Turboflex disc and Ameridrives diaphragm couplings are well-suited for these applications, offering high efficiency, low maintenance, and excellent dynamic performance. These couplings help ensure smooth operation and energy efficiency in industrial power systems.

INTEGRALLY GEARED COMPRESSORS FOR CARBON CAPTURE STORAGE (CCS)

CCS applications involve integrally geared compressors operating at varying speeds and loads, requiring flexible and durable high-performance couplings. Euroflex™ and Bibby™ Turboflex™ disc couplings provide the flexibility, torsional performance, and reliability needed to handle these complex systems. Their ability to accommodate misalignment while maintaining precision supports the long-term performance of carbon capture infrastructure.

STEAM TURBINE GEARED GENSETS FOR SMALL MODULAR REACTORS

Small modular reactors (SMRs) depend on highly reliable steam turbine generator sets where coupling performance is critical to safety and efficiency. Kop-Flex™ and Ameridrives™ couplings offer proven reliability in nuclear and power generation applications, delivering precise torque transmission and robust misalignment capability. Their engineered designs support long service intervals and stringent regulatory requirements in nuclear environments.

DRIVELINES FOR MARINE PROPULSION

Marine propulsion systems require couplings that can withstand variable loads, shock, and misalignment in demanding maritime conditions. Ameridrives and Kop-Flex couplings are widely used in propulsion drivelines, offering high torque capacity and durability. Bibby Turboflex couplings further enhance system performance by minimizing vibration and accommodating shaft movement, contributing to smoother and more reliable vessel operation.

ONE GLOBAL PARTNER. FOUR PROVEN BRANDS. COMPLETE TURBOMACHINERY COUPLING SOLUTIONS

- Global turbomachinery coupling expertise across Kop-Flex, Ameridrives, Bibby Turboflex and Euroflex brands
- Over 100 years of combined coupling engineering heritage
- Solutions for gas turbines, steam turbines, compressors, motors, generators, pumps, gearboxes, and test benches
- Global engineering, flexible manufacturing capacity, and service footprint
- Application-engineered solutions for critical rotating equipment
- Rapid engineering response and expedited delivery capabilities
- Cross-brand and flexible manufacturing site collaboration to serve global customer demands
- Disc, diaphragm, gear, quill shaft, and composite coupling technologies from a single source
- In-house engineering with finite-element analysis, machining, assembly, static testing, and dynamic balancing
- ISO 9001 certified manufacturing facilities
- API 671, ISO 10441 and customer-specific design requirements (ATEX, IECEx, UL, etc.)
- ABS, DNV, Lloyd's, and TÜV Certification support
- Worldwide supply, distribution, and aftermarket support
- Field service, installation, and commissioning support
- Inspection, repair, refurbishment, and recertification services
- Failure analysis, diagnostics, and reliability improvement expertise
- Lifecycle support from specification through MRO and upgrades



High-Performance Diaphragm Couplings

AMERIDRIVES™ AMERIFLEX™ HIGH-PERFORMANCE DIAPHRAGM COUPLINGS:

Ameriflex high-performance diaphragm couplings are built for infinite life in high-performance turbomachinery applications. With multiple convoluted diaphragms made from shot-peened 15-5PH stainless steel, these couplings offer exceptional torque capacity, low bearing loads, and high axial travel – making them ideal for critical rotating equipment.

KEY FEATURES:

- High torque-to-diameter and weight ratio
- Multiple separated diaphragms for built-in safety
- Low bending moments and axial forces
- API 671 compliant
- Greatest axial misalignment capability



KOP-FLEX™ HIGH-PERFORMANCE DIAPHRAGM COUPLINGS:

Kop-Flex high-performance diaphragm couplings feature a patented one-piece stainless steel diaphragm design that simplifies installation while maximizing misalignment handling and torsional stiffness. Engineered for high-speed, high-torque applications, these couplings are trusted for critical equipment.

KEY FEATURES:

- Torque capacity over 50 million in-lb (5,650 kNm)
- Specially contoured one-piece shot peened stainless steel diaphragm for low-weight and high-speed
- Shaft diameters over 19 inches (480 mm)
- API 671-compliant with drop-in replacement for legacy couplings



Resilient and High-Performance Gear Couplings

KOP-FLEX MAX-C™ RESILIENT COUPLINGS AND SERIES AC HIGH-PERFORMANCE GEAR COUPLINGS

MAX-C KEY FEATURES:

- Resilient coupling that provides damping for applications with shock loading or cyclic torques
- The Max-C can be mated to disc or diaphragm couplings to tune the drivetrain, particularly advantageous to large load data centers
- Frequently used on synchronous and variable frequency drive motors



SERIES AC KEY FEATURES:

- Engineered for high-speed and high-torque applications
- Superior strength with heat-treated alloy steel construction
- Built for reliability and long service life
- API 671-compliant with flexible design options



High-Performance Disc Couplings

KOP-FLEX™ HIGH-PERFORMANCE DISC COUPLINGS:

Kop-Flex high-performance disc couplings are engineered for the most demanding turbomachinery applications, including steam and gas turbines, compressors, and motor-driven trains.

KEY FEATURES:

- Torque capacity over 14.6 million in-lb (1,647 kNm)
- API 671 compliant and balanced to industry-leading standards
- Stainless steel Koplon™ coated flexible discs for extended life



EUROFLEX™ HIGH-PERFORMANCE DISC COUPLINGS:

Euroflex high-performance disc couplings are custom-engineered for high-speed, high-torque turbomachinery applications. Designed for reliability and optimized performance, Euroflex couplings excel in environments with demanding misalignment and weight constraints, including offshore platforms, refineries, and power plants.

KEY FEATURES:

- Torque capacity over 17 million in-lb (2,000 kNm)
- API 671, ISO 10441, ATEX, DNV, and ABS compliant
- Lightweight, reduced moment designs for high-speed applications
- Capable of transmitting over 120,000 hp (90 MW)



BIBBY™ TURBOFLEX™ HIGH-PERFORMANCE DISC COUPLINGS:

Bibby Turboflex high-performance disc couplings are engineered for demanding turbomachinery applications requiring high torque transmission, minimal maintenance, and exceptional misalignment capacity. Their torsionally stiff, lightweight design makes them ideal for high-speed environments, with proven reliability in hostile operating conditions.

KEY FEATURES:

- Torque capacity up to 5.3 million in-lb (600 kNm)
- No lubrication or maintenance required
- API 671 compliant and ATEX certified
- Comprehensive range of couplings and torque limiting systems

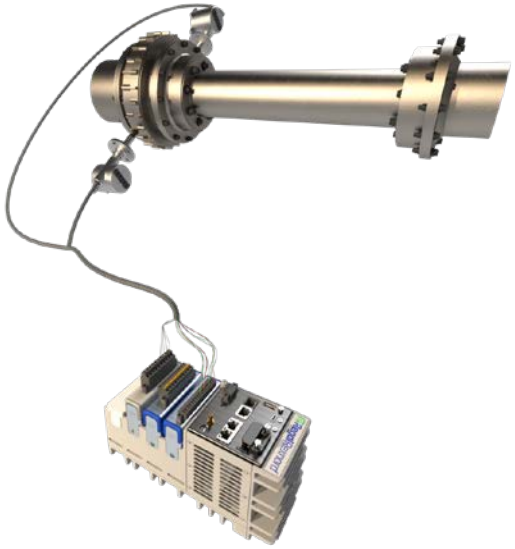


DISC COUPLING CONFIGURATION OPTIONS:

- Torque overload protection (shear spacer & shear pin)
- Coplanar/interlocking
- Reduced Moment (RM)
- Marine Style (MS)
- Custom torsional tuning of spacer tube
- Multiple disc element profiles
- Hybrid flex element (stiff/resilient)
- Torque monitoring
- Electrically insulated
- Bespoke interface design
- Exotic materials for extreme temperatures
- Special coatings for extreme environmental conditions
- Special nut and bolt hardware (metal & design)
- Interlocking hubs
- Vertical thrust
- Limited end float
- High misalignment
- High speed (>25,000 rpm)
- Zero axial misalignment
- Splined shaft/hub
- Long span
- Flywheel hub

Powerlign™ 2.0 Torque Monitoring System

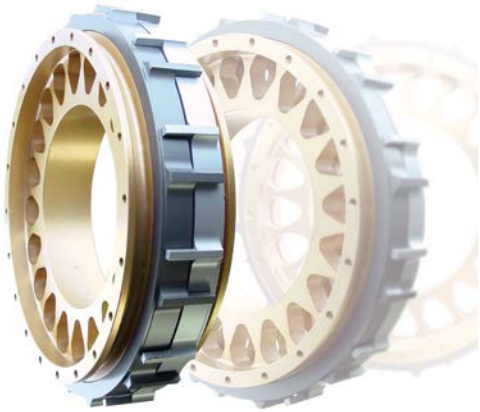
Powerlign 2.0 is our next-generation, high-precision torque monitoring system designed to optimize turbomachinery performance through simplified installation, robust data acquisition, and intelligent maintenance planning. Built on nearly 30 years of field experience, this non-strain gauge phase displacement solution delivers full-scale torque data without on-site calibration, enabling efficient deployment and long-term reliability. Easily integrated with industry-standard Kop-Flex™ and Ameridrives™ high-performance couplings, its compact dual-sensor design supports both new installations and retrofit applications. Powerlign 2.0 empowers operators with actionable insights for fuel optimization, predictive maintenance, load balancing, and equipment verification—driving smarter, data-driven decisions across critical operations. Powerlign 2.0 provides a valuable added layer of asset management reliability for remotely operated pipeline compressor stations.



FEATURES AND BENEFITS:

- Precise Monitoring: Digital phase-shift technology is durable, robust, and enables continuous torque trending without strain gauges at less than 1% error.
- Predictive Maintenance Support: Torque trend data helps you to extend maintenance intervals, be selective on what to maintain, and reduce unplanned downtime.
- Temperature Resilience: Automatic temperature compensation; sensors operate up to 350°F (177°C) and are suitable for gas turbine exhaust plenums.
- Intuitive Interface & Diagnostics: Graphical trend analysis with built-in sensor diagnostics, signal validation, noise correction, and waveform integrity checks.
- Flexible Communication Protocols: Supports Modbus RS-485, Modbus Ethernet, and 4–20 mA for broad industrial compatibility.
- Electronic-Free Coupling Design: No electronics or power within the coupling, enhancing safety and system reliability.
- Modular Architecture: Scalable platform designed for long-term durability and performance.
- Seamless System Integration: Full compatibility with DCS, PCs, and laptops for advanced control and data analysis.
- Alert & Fail-Safe Capabilities: Configurable thresholds trigger alarms or control actions to maintain load and efficiency.
- Environmental Compliance Assistance: Improved fuel monitoring supports NOx emission reduction efforts.
- Retrofit-Friendly Installation: Instrumented spacer can be added without disturbing existing flex half couplings.





Regal Rexnord High-Performance Coupling Recertification Service

Regal Rexnord's High-Performance Coupling Recertification Service resets accumulated damage endured under severe loading conditions. All Regal Rexnord high-performance disc and diaphragm couplings can be inspected, overhauled and recertified. For disc couplings and hardware, recertification replaces a coupling's flexible elements.

Coupling maintenance and recertification is part of an effective and proactive asset management strategy. Recertification restores couplings to a like-new condition. For about half the cost of a replacement coupling, recertification ensures the reliable operation of critical rotating equipment.

RegalRexnord RECERTIFIED
API 671 COUPLINGS - WARRANTY
AMERIDRIVES · EUROFLEX · KOP-FLEX · TURBOFLEX



Before | After

KEY BENEFITS:

- Cost Savings: A recertified coupling is like-new for about half the cost of a replacement coupling
- Reduced Lead Time: The lead time for recertification is significantly shorter than buying a new replacement, enabling plant operators to minimize unplanned downtime and keep production on schedule
- Asset Management Partnership: Combine recertification with stocking critical spares for a smart maintenance strategy

RECERTIFICATION STEPS:

- Couplings are received and inspected
- Couplings are disassembled and blast cleaned to remove surface corrosion and other surface anomalies
- A complete mechanical and metallurgical evaluation is performed to ensure all major components meet original specifications and are suitable for continued service
- Flexible elements and all hardware including bolts, nuts, washers, and shims are replaced
- As needed, components can be manufactured to replace those deemed unserviceable or require upgrade
- Couplings are then reassembled and re-balanced in accordance with the OEM specifications
- Custom preservation packaging for long-term storage



Blast Cleaning



Mechanical Inspection



MPI Inspection



Re-Balance

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