Power Transmission Technology for the 21st Century and Beyond.

Rexnord

Rexnord is eager to bring this revolutionary new coupling to the marketplace. Virtually every market segment that relies on rotating equipment can gain the benefits of the Rex MagneLink coupling. Its patented design consists of two parts that have no physical contact. This design allows torque to be transmitted through the air while eliminating the transfer of vibration.

How does the coupling operate?

The coupling works on a fundamental principle of nature involving permanent magnets. The magnetic coupling consists of two separate components that have no physical contact. Precision machined aluminum rotors containing high-energy permanent magnets are mounted on one shaft, and a hub conductor consisting of a steel housing with copper rings mounts on the other shaft. The coupling force is created by the relative motion between the copper conductor and the magnets. This motion creates a magnetic field in the copper that interacts with the permanent magnets, thus transmitting torque through air.

- 1. 1/8" air gap between magnetic rotor and conductor hubs dampens
 vibration and chance of resonance
 - Laser alignment is not necessary; just ensure a gap exists between rotors
 - 3. High-energy output permanent magnets
 - 4. Copper maximizes induction of eddy currents through motion with magnets
 - 5. Steel plates focus the magnetic flux through copper conductors to maximize eddy current
 - 6. Magnetism does not escape the housing; there is no attraction to tools
 - 7. Hub allows many shaft types and sizes
 - 8. Precision shoulder bolts provide strength and maintain balance

Rex[®] MagneLink[™] – Magnetic Drive Coupling

Typical Applications

- Pumps
- Compressors
- Blowers
- Crushers/Hammermills
- Engine Drives
- Generator Sets
- Conveyors
- Grinders



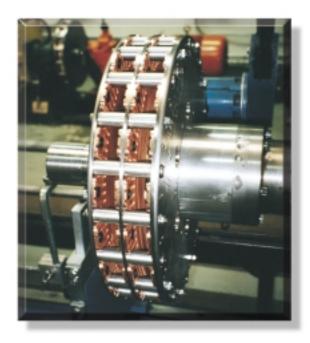
Industries Served

- Petrochemical and Refining
- Power Utilities
- Materials Handling
- Cement
- Marine
- Food and Beverage
- Pulp and Paper
- Gas Compression
- Mining
- Forest Products
- Transportation
- Construction Equipment

Magnetic Drive Technology Benefits

IMMEDIATE BENEFITS

- 98% efficient operation
- Motor and load not connected
- Vibration isolation
- Precise alignment unnecessary
- Laser alignment eliminated
- Soft start and stop
- No external energy source required
- Selection of drive train can be based on operating, not starting, torque



LONG-TERM BENEFITS

- No wearing parts
- No maintenance required
- System maintenance reduced
- Increase process reliability and integrity
- Short-term economic payback
- Protect equipment from load seizure



Rexnord Corporation Engineered Magnetic Technology Operation 304 Main Avenue Warren, PA 16365 PH: (814) 728-3200

FAX: (814) 728-3300 www.rexnord.com