

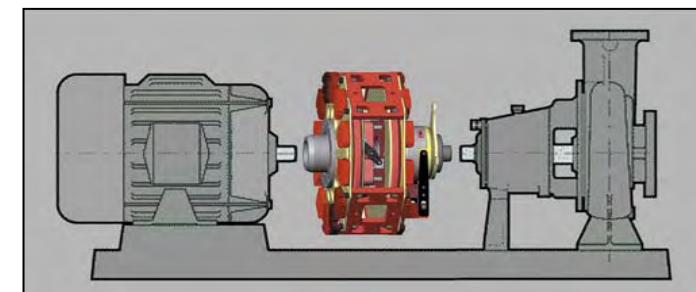
MagnaDrive™

RELIABILITY
THROUGH
INNOVATION

Breakthrough Technology

MagnaDrive replaces the physical connection between motors and loads with a gap of air. This air gap eliminates harmful vibration, wear and tear, enhances energy efficiency, increases motor life and protects equipment from overload damage.

MagnaDrive's patented technology transmits power across an air gap with motor and load completely disconnected. The result? Improved reliability, money saved on energy and maintenance every day, and a big change in the way factories and other industrial and commercial facilities operate.



Lowest Total Cost of Ownership

Maintenance, unscheduled downtime, and energy costs are three of the highest budget items in industry. Over a system's life, these costs are more than ten times greater than the purchase price of the equipment. Therefore, it is prudent to investigate the total cost of ownership rather than just initial price.

MagnaDrive's technology provides the lowest total cost of ownership in most applications due to significantly lower maintenance costs and increased reliability. Equipment life is extended due to reduced vibration. Variable speed applications have the added benefit of dramatically lower energy costs.

About MagnaDrive

Bellevue-based MagnaDrive Corporation was founded in 1999. The company's breakthrough magnetic technology provides a cost effective solution to increase reliability and lower maintenance expense while achieving energy savings and process control. The impact and potential of the technology was recognized by *Industry Week* magazine, which selected MagnaDrive as Technology of the Year in 2001. MagnaDrive was selected by *Inc.* magazine as one of 2004's 500 fastest growing private companies in the United States. Also for 2004, Deloitte & Touche named MagnaDrive one of the 100 fastest growing technology companies in North America.



FGC on guided-missile cruiser USS *Anzio* (CG 68)



11 ASD's at Ashland Water Treatment Plant in Oregon

MagnaDrive™

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Target Industries

MagnaDrive's technology is applicable to most companies. However, the following industries have demonstrated the most benefits by utilizing MagnaDrive products:

- Water / Wastewater
- Power Generation
- Pulp & Paper
- Mining & Cement
- Chemical Processing
- Oil & Gas
- HVAC
- Irrigation
- Maritime

Target Applications

MagnaDrive products are used with a wide variety of rotating equipment in industry. The top five applications of MagnaDrive technology are as follows:

- Pumps
- Fans
- Centrifuges
- Bulk Handling
- Blowers

U.S. Navy Program

The U.S. Navy has procured several hundred MagnaDrive units for a variety of critical pump applications. MagnaDrive's technology has passed the Navy's rigorous 9-G Shock Test and is currently placed on guided missile cruisers, destroyers and aircraft carriers, with plans to install MagnaDrive's products on pumps and other rotating equipment fleet wide, on all ship classes.

Existing applications include pumping equipment where reliability is critical to ship operations:

- Catapult Water
- Hydraulic Elevator
- Chilled & Sea Water
- JP5 Fueling
- Fire Water

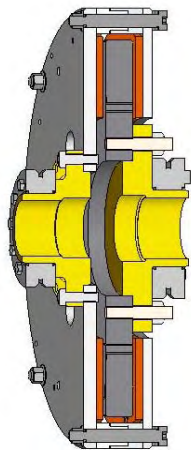
The Navy spends 29 sailor-days per year per pump repairing and replacing seals, couplings and bearings on existing equipment. These costly repairs are nearly eliminated with MagnaDrive Technology. The Navy calculates that using MagnaDrive Technology will reduce their annual staffing needs by over 1,700 sailors.

MagnaGuard Standard Couplings (FGC & MGE)

Benefits:

- ✓ Lowest Total Cost of Ownership
- ✓ Low Maintenance
- ✓ Accepts Greater Misalignment
- ✓ Eliminates Vibration Transfer between Motor and Load
- ✓ Increases Seal and Bearing Life
- ✓ Simple Installation
- ✓ Efficient Torque Transfer
- ✓ Permits Shock Loading
- ✓ Meets ANSI B73 Standards (MGE only)
- ✓ Meets API 610 Standards (MGE only)

FGC & MGE – The New Standard for All Industrial Couplings



3 to 5,000 Hp - Up to 7,000 RPM

Ideal for Applications Subject to:

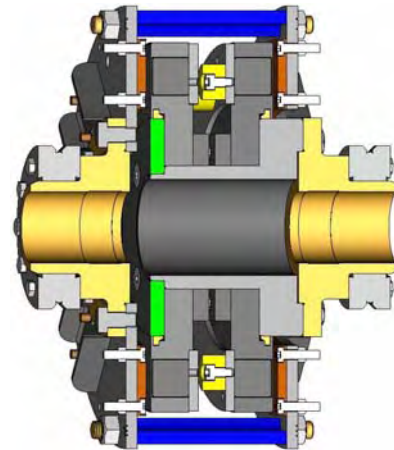
- Vibration
- Periodic Load Seizure
- Pulsating Loads
- Thermal Expansion
- Shock Loading
- Tight Space Constraints

MagnaGuard Delay Coupling (MGD)

Benefits:

- ✓ Cushioned Start & Stop
- ✓ Lowest Total Cost of Ownership
- ✓ Low Maintenance
- ✓ Accepts Greater Misalignment
- ✓ Eliminates Vibration Transfer between Motor and Load
- ✓ Increases Seal and Bearing Life
- ✓ Simple Installation
- ✓ Efficient Torque Transfer
- ✓ Permits Shock Loading

MGD – Advanced Cushioned Start & Stop



10 to 2,000 Hp - Up to 4,500 RPM

Ideal for Applications Subject to:

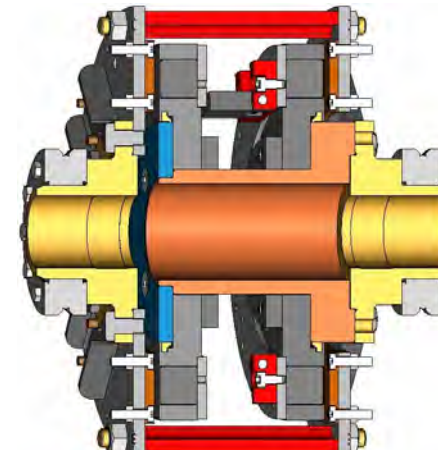
- Vibration
- Periodic Load Seizure
- Pulsating Loads
- Thermal Expansion
- Shock Loading
- Higher Starting Inertia/Torque

Torque Limiting Coupling (MGTL)

Benefits:

- ✓ Overload Torque Protection
- ✓ Self-resetting
- ✓ Cushioned Start & Stop
- ✓ Lowest Total Cost of Ownership
- ✓ Low Maintenance
- ✓ Accepts Greater Misalignment
- ✓ Eliminates Vibration Transfer between Motor and Load
- ✓ Increases Seal and Bearing Life
- ✓ Simple Installation
- ✓ Efficient Torque Transfer
- ✓ Permits Shock Loading

MGTL – Advanced Overload Protection



10 to 2,000 Hp - Up to 4,500 RPM

Ideal for Applications Subject to:

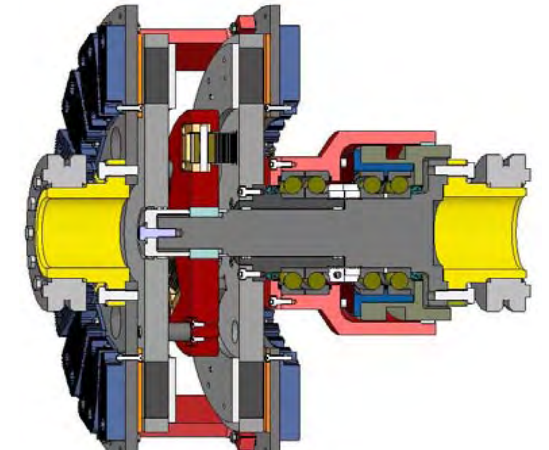
- Vibration
- More Frequent Load Seizures
- Pulsating Loads
- Thermal Expansion
- Shock Loading
- Higher Starting Inertia/Torque

Adjustable Speed Drive (ASD)

Benefits:

- ✓ Variable Speed Control
- ✓ Eliminates Inefficient Valves & Dampers
- ✓ Eliminates Electronic Harmonics
- ✓ Up to 66% Energy Savings
- ✓ Lowest Total Cost of Ownership
- ✓ Low Maintenance
- ✓ Accepts Greater Misalignment
- ✓ Eliminates Vibration Transfer between Motor and Load
- ✓ Increases Seal and Bearing Life
- ✓ Simple Installation
- ✓ Completely Disengaged Start-up
- ✓ Permits Shock Loading

ASD – Precise Process Control



10 to 2,500 Hp - Up to 4,000 RPM

Ideal for Applications Subject to:

- A Need for Process Control
- Vibration
- Periodic Load Seizure
- Pulsating Loads
- Thermal Expansion
- Shock Loading
- Higher Starting Inertia/Torque