

## Motion Control Products Focus on Concrete



### **Linkless Centrifugal Clutch**

Combines a dowel pin, vibration-dampening bushing, and a symmetrical spring design. Provides load-free starting, overload protection and longer product life at an economical price.



### **Hilliard Twiflex Centrifugal Clutch**

Extreme-duty industrial design is ideal for starting high inertia loads, absorbing shock, and limiting torsional vibration. Cushioned engagement enables quiet operation and is slip free at rated load.



### **Hand Disconnect Clutch**

Ideal for most start and stop applications that require a positive-locking clutch; the operator can control the rate of engagement for smooth starts. The clutch mounts directly onto the input shaft and can be held into engagement with the over center design. Output can be either splined or keyed, depending on application.



### **Wheel Clutch**

Economical drive system allows two-wheel, positive drive. Effortless turning is achieved through the use of the Hilliard Wheel Clutch when installed in a standard wheel assembly.



### **Slip Clutch**

Hilliard slip clutches include one or more friction discs mounted on an inner hub. The outer disc(s) engage a splined drive ring fastened to the sleeve. Springs compress the disc stack, transmitting torque.



### **Bi-Directional Differential**

The Bi-Directional Differential utilizes overrunning clutches to provide positive engagement automatically in forward or reverse. This allows the wheels on the secondary drive axle to overrun the drivetrain until 4WD is needed.

# Applications and Advantages

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## **LINKLESS CENTRIFUGAL CLUTCH**

- Load-free starting
- Overload protection
- Soft start

*Applications: power trowel, cement mixer, conveyor, saw, plaster/mortar pump, compressor*

## **HAND DISCONNECT CLUTCH**

- Positive engagement/disengagement
- Overload protection
- Low maintenance

*Applications: plaster/mortar pump, saw, cement mixer, conveyor*

## **HILLIARD TWIFLEX CENTRIFUGAL CLUTCH**

- Protects motor from overload when consistency changes
- Eliminates flexible coupling
- Rugged construction, requires no lubrication

*Applications: mixer, conveyor, crusher, truck-mounted pump*

## **WHEEL CLUTCH**

- Two-wheel positive drive
- Low steering effort
- Simple design for easier maintenance
- Single-direction and bi-directional clutches available

*Applications: self-propelled wheelbarrow, walk-behind equipment*

## **SLIP CLUTCH**

- Single nut adjustment easily pre-sets the torque
- 10-100% torque adjustment range
- Low maintenance

*Applications: conveyor, pump, mixer, saw, crusher*

## **BI-DIRECTIONAL DIFFERENTIAL**

- Positive engagement
- Automatic disengagement
- Constant drive maintained while engaged

*Applications: utility vehicle, commercial equipment*

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## **The Hilliard Corporation**

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