

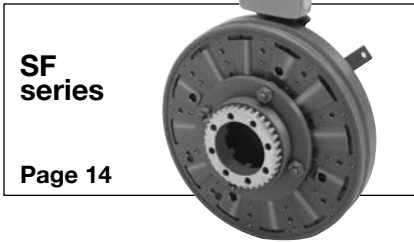
# Basic Design Clutches/Brakes



# Custom Design Clutches and Brakes

## Optimum Performance with Off-the-shelf Components

### Clutches



#### Stationary Field Design

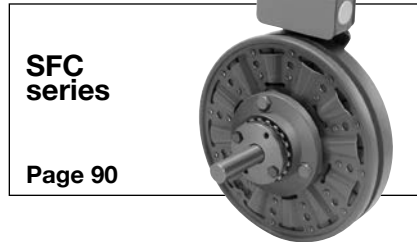
- Flange or bearing mounted styles
- The SF design eliminates collector rings and brush-holder. Ideal for adverse environmental conditions. Mounting tolerances are generally more critical than the PC design.



#### Primary Design

- Current is carried through brushes and the collector ring to the rotating magnet. The PC design is less expensive than the SF design.

### Clutch Couplings



#### Stationary Field Design

- The SFC Series clutch couplings employ the same basic components as the SF design except for a splined hub and adapter which serves as a coupling for in-line shaft applications.



#### Primary Design Coupling Units

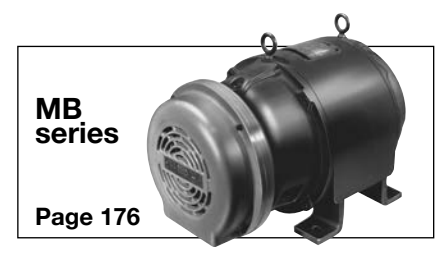
- The PCC Series clutch couplings employ the same basic components as the PC design except for a splined hub and adapter which serves as a coupling for in-line shaft applications.

### Brakes



#### Brake

- The PB Series brakes consist of a magnet, armature and mounting hub in a very simple and extremely compact design.



#### Motor Brake

- MB motor brakes are composed of a PB Series brake mounted on a NEMA C-face adapter and cover assembly.

### Clutch/Brake Combinations



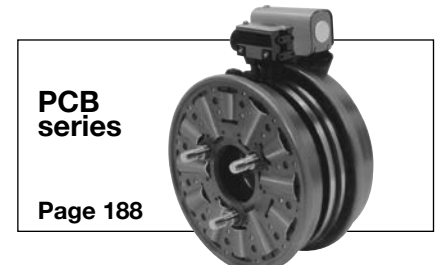
#### Primary Clutch/Brake Coupling

- The PCBC clutch/brake coupling series combines a PCC clutch coupling with a PB brake.



#### Stationary Field Clutch/Brake Coupling

- The SFPBC clutch/brake coupling series combines a SFC clutch coupling with a PB brake.



#### Primary style clutch/brake

- The PCB Series clutch-brakes combine a PC clutch and a PB brake into one compact design.

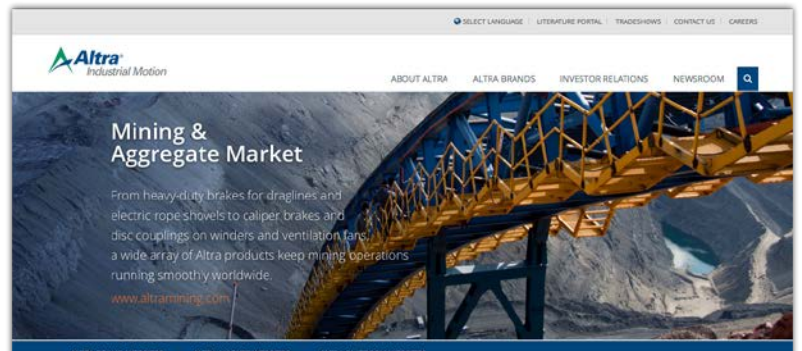
# Online Resources

[www.altramotion.com](http://www.altramotion.com)

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We are a leading global designer and manufacturer of quality power transmission and motion control products utilized on a wide variety of industrial drivetrain applications.

Altra clutches and brakes, couplings, gearing and PT component product lines are marketed under 22 well known manufacturing brands that have each been in existence for over 50 years. Operating independently, each of these companies is committed to the guiding principles of operational excellence, continuous improvement and customer satisfaction.

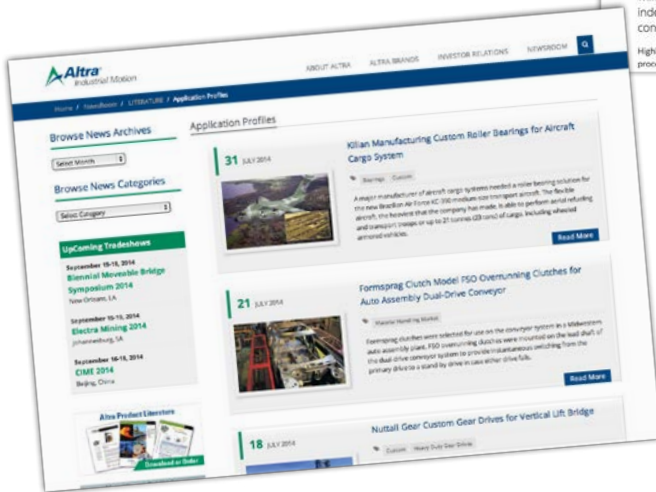
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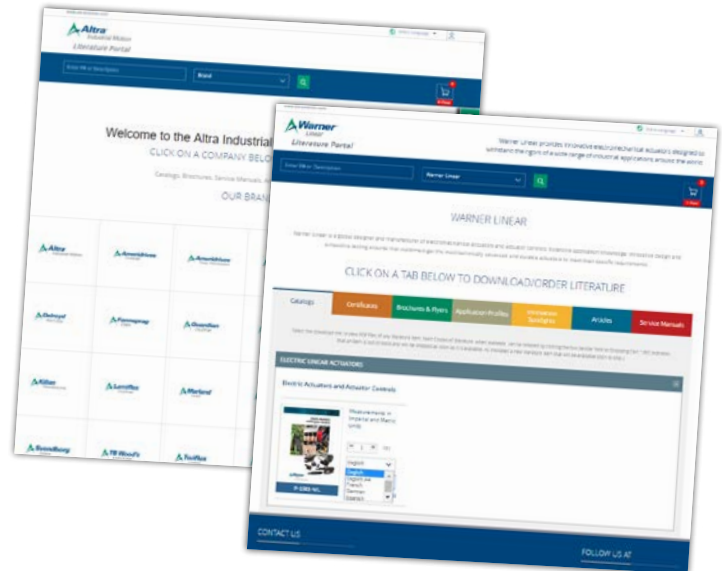
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- |                   |                    |                  |
|-------------------|--------------------|------------------|
| Ameridrives       | Guardian Couplings | Marland Clutch   |
| Bauer Gear Motor  | Huco               | Matrix           |
| Bibby Turboflex   | Industrial Clutch  | Nuttall Gear     |
| Boston Gear       | Inertia Dynamics   | Stieber          |
| Delroyd Worm Gear | Kilian             | Stromag          |
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- TB Wood's
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# Altra Industrial Motion

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South Beloit, IL 61080 - USA  
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**Application Support**  
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St Barthelemy d'Anjou - France  
+33 (0)2 41 21 24 24

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### Asia Pacific

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#### China

+86 21 5169-9255

#### Hong Kong

+852 2615 9313

#### Singapore

+65 6487 4464

#### Taiwan

+886 2 2577 8156

#### Thailand

+66 2322 5527

## The Brands of Altra Industrial Motion

### Couplings

Ameridrives  
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Bibby Turbo ex  
[www.bibbyturbo-ex.com](http://www.bibbyturbo-ex.com)

Guardian Couplings  
[www.guardiancouplings.com](http://www.guardiancouplings.com)

Huco  
[www.huco.com](http://www.huco.com)

Lami ex Couplings  
[www.lami-excouplings.com](http://www.lami-excouplings.com)

Stromag  
[www.stromag.com](http://www.stromag.com)

TB Wood's  
[www.tbwoods.com](http://www.tbwoods.com)

### Geared Cam Limit Switches

Stromag  
[www.stromag.com](http://www.stromag.com)

### Electric Clutches & Brakes

Inertia Dynamics  
[www.idicb.com](http://www.idicb.com)

Matrix  
[www.matrix-international.com](http://www.matrix-international.com)

Stromag  
[www.stromag.com](http://www.stromag.com)

Warner Electric  
[www.warnerelectric.com](http://www.warnerelectric.com)

### Linear Products

Warner Linear  
[www.warnerlinear.com](http://www.warnerlinear.com)

### Engineered Bearing Assemblies

Kilian  
[www.kilianbearings.com](http://www.kilianbearings.com)

### Heavy Duty Clutches & Brakes

Industrial Clutch  
[www.indclutch.com](http://www.indclutch.com)

Twix  
[www.twix.com](http://www.twix.com)

Stromag  
[www.stromag.com](http://www.stromag.com)

Svendborg Brakes  
[www.svendborg-brakes.com](http://www.svendborg-brakes.com)

Wichita Clutch  
[www.wichitaclutch.com](http://www.wichitaclutch.com)

### Belted Drives

TB Wood's  
[www.tbwoods.com](http://www.tbwoods.com)

### Gearing

Bauer Gear Motor  
[www.bauergears.com](http://www.bauergears.com)

Boston Gear  
[www.bostongear.com](http://www.bostongear.com)

Delroyd Worm Gear  
[www.delroyd.com](http://www.delroyd.com)

Nuttall Gear  
[www.nuttallgear.com](http://www.nuttallgear.com)

### Overrunning Clutches

Formsprag Clutch  
[www.formsprag.com](http://www.formsprag.com)

Marland Clutch  
[www.marland.com](http://www.marland.com)

Stieber  
[www.stieberclutch.com](http://www.stieberclutch.com)

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