



**Engine  
Housings  
For Mounting  
A Hydraulic  
Pump/Motor  
And Other  
Driven  
Components**



## Why Choose Guardian?

For more than 70 years, Guardian has been designing and manufacturing world-class couplings and other power transmission components. Utilizing advanced manufacturing technologies and processes, Guardian provides highly-reliable coupling and component solutions to meet the most challenging industrial application requirements.

Guardian provides a wide range of standard and custom products including flywheel couplings, hydraulic pump mounts, bearing supported stub shafts, flexible shaft-to-shaft couplings, motion control couplings as well as compression pipe couplings.

Durable Guardian products are utilized in key industries including mobile hydraulics, farm & ag, tree care, concrete, food & beverage, material handling, automation, power generation, and oil & gas on applications such as skid steers, aerial lifts, harvesters, wood chippers, concrete pumps, dewatering pumps, baggage handlers, conveyors, robotics, compressors, and generator sets.

## FEATURES AND ADVANTAGES

Guardian's engine housings are designed for use with gas and diesel engine applications, which allows a direct connection to a hydraulic pump. They can also be utilized in a wide variety of applications including, but not limited to: generators, compressors, small gear boxes, & bearing supports. The castings are manufactured from aluminum, gray iron and ductile iron. These engine housings can be utilized together with our FBA, FL, FH, NV, & Delta flywheel coupling designs.

### Cost Effective

Guardian mounts provide a no-hassle assembly of the pump and the motor. It eliminates the use of shims, additional mounting fixtures or foot mounts. As a result our pump mounts save our customers in labor cost and provides a worry free mounting system.

### Minimizes Vibration

For applications that require additional weight and/or additional dampening characteristics try our cast iron housings. (Not available on all designs, please inquire.)

### Lightweight

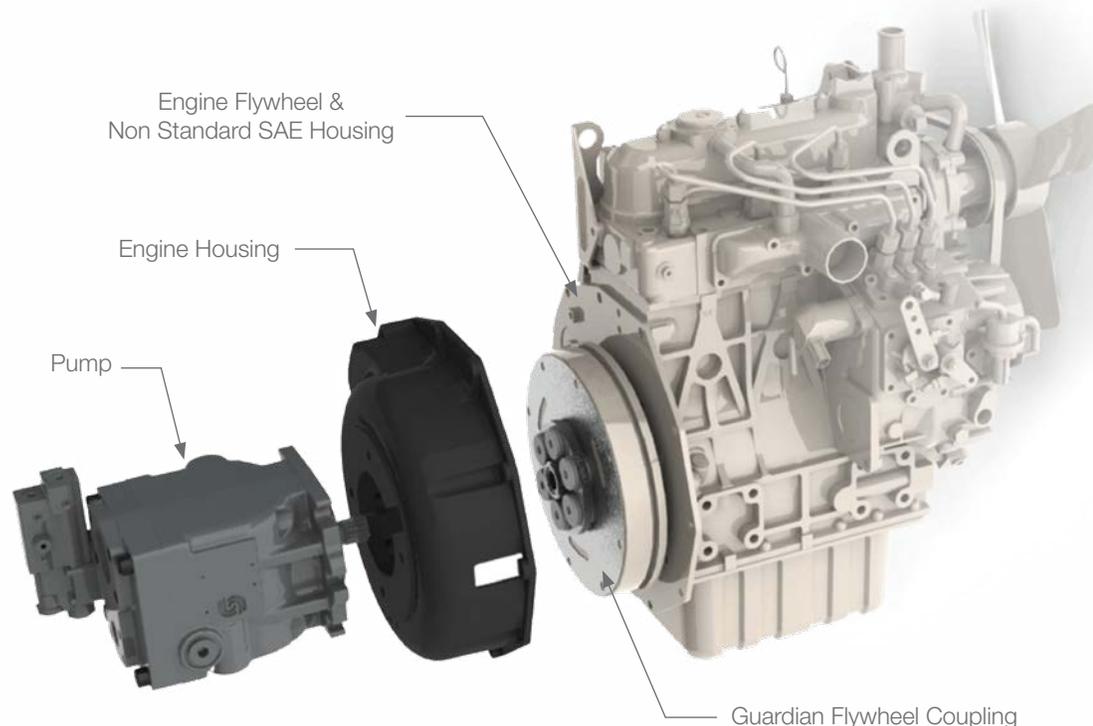
Guardian's high strength aluminum castings are great for applications which require a lightweight design without sacrificing strength.

### No Hassle Alignment

All of our castings are precision machined to strict tolerances on our state of the art CNC equipment. After they leave our production area they are thoroughly inspected by our quality department using a coordinate measuring machine (CMM). This accomplishes accurate alignment between the engine and the pump, and reduces premature failure of the drive coupling.

### Additional Features

- SAE and NON-SAE pump mounting
- Side rail mounts, top mounts, foot mounts, and special feature mounts are available in some designs
- Sensor mounting
- Painted housings standard on all cast iron designs, available upon request for aluminum housings



## Housings Available

Engine	Type
Briggs Diahatsu	DM700/950
Cummins	B3.3
Cummins	A Series
Deutz	Semi SAE #4
Ford	VSG 413
Ford	DSG 425
Ford	LRG 425
GM	3.0L / 4.3L / 5.7
Hatz	Semi SAE #5
Isuzu	L-Series
John Deere	3011D, 3015D, 4020D, 4020T
Kubota	Super Mini Series
Kubota	Super 3 Series
Kubota	Super 5 Series
Kubota	V3300
Kubota	V3600
Lombardini	
Nissan	H15/20/25
Perkins	103-9/10, 403C-10/11
Perkins	103-12/13/15, 403C-13/15
Perkins	104-19/22, 404C-19/22
Yanmar	3 & 4 TNV (SA2), Semi SAE #5
Yanmar	3 & 4 TNV (SA3)
Yanmar	Mini Max Series
Wisconsin	TME 27

\* For designs not listed on left, please contact Guardian Couplings to begin designing your engine housing requirement.



## OTHER GUARDIAN PRODUCTS:

### FL Flywheel Coupling

- Torsionally Stiff
- Reinforced Nylon Flange
- Steel Hub
- No Lubrication
- Accepts Splines & Straight Bores/ Keyways Shafts



### FBA Flywheel Coupling

- Torsionally Soft for Vibration Dampening
- Rugged Steel Construction
- One-Piece Design
- No Clamping Required
- Lubrication Required
- Accepts Spline Shafts



### Delta Flywheel Coupling

- Torsionally Soft for Vibration Dampening
- Reinforced Nylon Flange
- Accepts Splines & Straight Bores/Keyways Shafts
- No Clamping Required
- Lubrication Required



### NV Flywheel Coupling

- Torsionally Soft for Vibration Dampening
- Rubber Fuse Link
- Accepts Spline Shafts
- No Lubrication Required
- No Clamping Required



## Guardian Couplings Facilities

### North America

#### USA

300 Indiana Highway 212  
Michigan City, IN 46360  
219-874-5248

*Engineered Flywheel Couplings, Engine Housings and Pump Mounts, Flexible Shaft Couplings*

### Europe

#### United Kingdom

Merchant Drive, Hertford  
Hertfordshire SG13 7BL - England  
+44(0)1992 501900

*Engineered Flywheel Couplings, Engine Housings and Pump Mounts, Flexible Shaft Couplings*

## The Brands of Altra Motion

### Couplings

**Ameridrives**  
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**Bibby Turboflex**  
[www.bibbyturboflex.com](http://www.bibbyturboflex.com)

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

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

**Lamiflex Couplings**  
[www.lamiflexcouplings.com](http://www.lamiflexcouplings.com)

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

### Linear Systems

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

**Warner Linear**  
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### Geared Cam Limit Switches

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

### Engineered Bearing Assemblies

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

### Electric Clutches & Brakes

**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)

**Deltran**  
[www.thomsonlinear.com](http://www.thomsonlinear.com)

### Belted Drives

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

### Heavy Duty Clutches & Brakes

**Twiflex**  
[www.twiflex.com](http://www.twiflex.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)

### Gearing & Specialty Components

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

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

**Delevan**  
[www.delevan.com](http://www.delevan.com)

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

### Engine Braking Systems

**Jacobs Vehicle Systems**  
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### Precision Motors & Automation

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### Miniature Motors

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

### Overrunning Clutches

**Formsprag Clutch**  
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**Marland Clutch**  
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