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

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

* 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

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300 Indiana Highway 212
Michigan City, IN 46360
219-874-5248
Engineered Flywheel Couplings, Engine Housings and Pump Mounts, Flexible Shaft Couplings

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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
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www.ameridrives.com
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www.bibbyturboflex.com
Guardian Couplings
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Huco
www.huco.com
Lamiflex Couplings
www.lamiflexcouplings.com
Stromag
www.stromag.com
TB Wood's
www.tbwoods.com

Linear Systems
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www.thomsonlinear.com
Warner Linear
www.warnerlinear.com

Geared Cam Limit Switches
Stromag
www.stromag.com

Engineered Bearing Assemblies
Kilian
www.kilianbearings.com

Electric Clutches & Brakes
Matrix
www.matrix-international.com
Stromag
www.stromag.com
Warner Electric
www.warnerelectric.com
Deltran
www.thomsonlinear.com

Belted Drives
TB Wood’s
www.tbwoods.com

Heavy Duty Clutches & Brakes
Twiflex
www.twiflex.com
Stromag
www.stromag.com
Svendborg Brakes
www.svendborg-brakes.com
Wichita Clutch
www.wichitaclutch.com

Gearing & Specialty Components
Bauer Gear Motor
www.bauergearmotor.com
Boston Gear
www.bostongear.com
Delevan
www.delevan.com
Delroyd Worm Gear
www.delroyd.com
Nuttall Gear
www.nuttallgear.com

Engine Braking Systems
Jacobs Vehicle Systems
www.jacobsvehicelsystems.com

Precision Motors & Automation
Kollmorgen
www.kollmorgen.com

Miniature Motors
Portescap
www.portescap.com

Overrunning Clutches
Formsprag Clutch
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Marland Clutch
www.marland.com
Stiebel
www.stiebelclutch.com

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