Flexible Engine Mountings

R & D Marine has developed a comprehensive range of fail safe competitively priced Engine Mountings to fit all major installations.

Shear mountings are available where good isolation is required and compression mounts where there is a restriction on the available space.

Installation is made as quick and easy as possible with slotted holes and height adjusting studs to simplify alignment.

Products are available ex-stock and worldwide through our distribution network.

- Capacity 30 - 2000 lbs per mount
- Good vibration isolation
- Fail safe design
- Will withstand roll over test
- Competitively priced
- Wide range of stock
- Available in standard sizes
- Accepts propeller thrust
- Pre-loaded
- Slotted holes to assist alignment
- Height adjusting to simplify alignment
- Fast installation time
- Worldwide availability

R & D Marine introduces new Engine Mounts to their comprehensive range.

The mounting is designed to be a direct replacement for the Yanmar engine mounts: Y50, Y70, Y75, Y100, Y150 and Y200, with added features of being fail safe, working within controlled limits and able to withstand a roll-over test.

<table>
<thead>
<tr>
<th>Part No</th>
<th>Capacity per mount</th>
<th>Yanmar Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>800-074</td>
<td>18-60 lbs</td>
<td>Y50, Y70</td>
</tr>
<tr>
<td></td>
<td>40-130 lbs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mount pre-loaded</td>
<td>2.3mm 0.09 inch</td>
</tr>
<tr>
<td></td>
<td>Deflection</td>
<td>2.3 - 8.5mm 0.09-0.335 inch</td>
</tr>
<tr>
<td></td>
<td>Height adjusting nut thickness</td>
<td>12.7mm 0.50 inch</td>
</tr>
<tr>
<td>800-070</td>
<td>18-60 lbs</td>
<td>Y75</td>
</tr>
<tr>
<td>800-071</td>
<td>23-73 lbs</td>
<td>Y100</td>
</tr>
<tr>
<td>800-072</td>
<td>28-109 lbs</td>
<td>Y150</td>
</tr>
<tr>
<td>800-073</td>
<td>32-146 lbs</td>
<td>Y200</td>
</tr>
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</table>

Part No: 800-070 - 800-073

'X' Dimensions on initial installation should not be less than 2.5mm 0.10 inch

Designs are subject to constant review and improvement therefore we reserve the right to amend any dimension or detail specified or illustrated in this publication without incurring any obligation to provide such modification to products previously delivered.
Rectangular Shear Mountings

The R & D Rectangular Shear Mountings offer low height with the best combination of stiffness. Soft vertically and at right angles to the crankshaft to isolate vibration, stiff fore and aft to take the propeller thrust.

This mounting has a low height giving good vibration isolation

- **12mm Stud**
  - Part No | Capacity per mount
  - 800-038 | 14-41 | 30-90
  - 800-039 | 32-77 | 70-170
  - Mount Pre-loaded 1.8mm | 0.07 inch
  - Deflection 1.8-3.4mm | 0.07-0.14 inch
  - Height adjusting
    - nut thickness: 10mm | 0.39 inch
    - Maximum height: 99mm | 3.9 inch

- **5/8” Stud**
  - Part No | Capacity per mount
  - 800-037 | 23-80 | 50-175
  - 800-010 | 36-105 | 80-230
  - 800-011 | 55-186 | 120-410
  - 800-012 | 114-255 | 250-560
  - 800-014 | 136-309 | 300-680
  - Mount Pre-loaded 2.3mm | 0.09 inch
  - Deflection 2.3-5.4mm | 0.09-0.21 inch
  - Height adjusting
    - nut thickness: 14mm | 0.55 inch
    - Maximum height: 137mm | 5.38 inch

- **3/4” Stud**
  - Part No | Capacity per mount
  - 800-039 | 32-77 | 70-170
  - 800-040 | 14-42 | 30-91
  - 800-041 | 36-108 | 160-370
  - 800-042 | 73-305 | 160-670
  - Mount Pre-loaded 1.8mm | 0.07 inch
  - Deflection 1.8-3.4mm | 0.07-0.14 inch
  - Height adjusting
    - nut thickness: 14mm | 0.55 inch
    - Maximum height: 137mm | 5.38 inch

Fitted with an oil shield to protect the rubber

- **5/8” Stud**
  - Part No | Capacity per mount
  - 800-027 | 136-310 | 300-682
  - 800-026 | 114-256 | 250-562
  - Mount Pre-loaded 1.5mm | 0.06 inch
  - Deflection 1.65mm | 0.065 inch
  - Height adjusting
    - nut thickness: 14mm | 0.55 inch
    - Maximum height: 137mm | 5.38 inch

- **3/4” Stud**
  - Part No | Capacity per mount
  - 800-036 | 136 | 300
  - 800-033 | 86 | 190
  - Mount Pre-loaded 1.5mm | 0.06 inch
  - Deflection 1.65mm | 0.065 inch
  - Height adjusting
    - nut thickness: 14mm | 0.55 inch
    - Maximum height: 137mm | 5.38 inch

- **1” Stud**
  - Part No | Capacity per mount
  - 800-063 | 227-590 | 500-1300
  - 800-064 | 295-772 | 650-1700
  - 800-065 | 500-954 | 1100-2100
  - Mount Pre-loaded 3mm | 0.12 inch
  - Deflection 3.6-4.8mm | 0.12-0.25 inch
  - Height adjusting
    - nut thickness: 14mm | 0.55 inch
    - Maximum height: 137mm | 5.38 inch

Note:
- 5/8” Stud
- 3/4” Stud
- 1” Stud

Units of measurement: Black Millimetres Red Inches
Circular Shear Mountings

This mounting is designed to give excellent vibration isolation and is fitted with an oil shield to protect the rubber

| 3/4” Stud |
|---|---|
| **Part No** | **Capacity per mount** |
| kg | lbs |
| 800-015 | 228-546 | 500-1200 |
| 800-016 | 296-682 | 650-1500 |
| 800-017 | 400-910 | 880-2000 |

| Mount Pre-loaded | 3mm | 0.12 inch |
| Deflection | 3-6.4mm | 0.012-0.25 inch |
| Height adjusting nut thickness | 16mm | 0.63 inch |

Compression Mountings

This is a low height mounting with minimum deflection

| 5/8” Stud |
|---|---|
| **Part No** | **Capacity per mount** |
| kg | lbs |
| 800-003 | 45-82 | 100-180 |
| 800-004 | 73-168 | 160-370 |
| 800-005 | 145-227 | 320-500 |

| Mount Pre-loaded | 1.5mm | 0.06 inch |
| Deflection | 2.3mm | 0.09 inch |
| Height adjusting nut thickness | 14mm | 0.55 inch |

Double Acting Mounting

The Double Acting Shear Mount is a unique mounting incorporating 2 rubber elements which are pre-loaded against each other, giving excellent isolation together with good control on problem installations

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<td>800-032</td>
<td>46-190</td>
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<td>800-033</td>
<td>73-305</td>
</tr>
<tr>
<td>800-042</td>
<td>73-305</td>
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| Mount Pre-loaded | 4.8mm | 0.19 inch |
| Deflection | 4.8-7.6mm | 0.19-0.30 inch |
| Height adjusting nut thickness | 14mm | 0.55 inch |
| Maximum height | 153mm | 6.0 inch |
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Units of measurement: Black Millimetres Red Inches
R & D Marine Engine Mountings

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Mount Pre-loaded 2.3mm 0.09inch
Deflection 2.3 - 8.5mm 0.009-0.335 inch
Height adjusting nut thickness 12.7mm 0.50 inch

How to select (details required)

1. Engine type, number of cylinders
2. Type of gearbox and reduction ratio
3. Weight of engine and gearbox combined by weighing or manufacturers' literature

\[
\text{Weight on each front mount} = \frac{W \times b}{2 \times (a+b)}
\]

\[
\text{Weight on each rear mount} = \frac{W \times a}{2 \times (a+b)}
\]

4. Is flywheel in conventional place between the engine and gearbox
5. Position of engine mounting points
6. Find centre of gravity by balancing on a roller (if possible)

Installation Details

Maximum clearance between the underside of the height adjusting nut and top washer must not be more than 10mm. If more height is required use a spacer under the mounting casting. This applies to all mountings in the R & D Marine Range.

Units of measurement: Black Millimetres Red Inches