APE Model D25-21 Single Acting Diesel Impact Hammer

**MODEL D25-21 (2.5 metric ton ram)**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stroke at maximum rated energy</td>
<td>135 in (343 cm)</td>
</tr>
<tr>
<td>Maximum rated energy (Setting 4)</td>
<td>62,016 ft-lbs (83.72 kNm)</td>
</tr>
<tr>
<td>Setting 3</td>
<td>55,814 ft-lbs (75.35 kNm)</td>
</tr>
<tr>
<td>Setting 2</td>
<td>45,892 ft-lbs (61.95 kNm)</td>
</tr>
<tr>
<td>Minimum rated energy (Setting 1)</td>
<td>31,008 ft-lbs (41.86 kNm)</td>
</tr>
<tr>
<td>Maximum obtainable stroke</td>
<td>150 in (381 cm)</td>
</tr>
<tr>
<td>Maximum obtainable energy</td>
<td>72,115 ft-lbs (97,774 kNm)</td>
</tr>
<tr>
<td>Speed (blows per minute)</td>
<td>34-53</td>
</tr>
</tbody>
</table>

**WEIGHTS (Approximate)**

- **Piston**: 5,512 lbs (4,600 kg)
- **Anvil**: 749 lbs (340 kg)
- **Anvil cross sectional area**: 124.42 in² (802.71 cm²)
- **Hammer weight (includes trip device)**: 9,723 lbs (3,810 kg)
- **Typical operating (weight with DB26 and H-beam insert)**: 12,375 lbs (5,013 kg)

**CAPACITIES**

- **Fuel tank (runs on diesel or bio-diesel)**: 8.3 gal (31.41 liters)
- **Oil tank**: 2.3 gal (8.7 liters)

**CONSUMPTION**

- **Diesel or Bio-diesel fuel**: 1.3 gal/hr (6.6 liters/hr)
- **Lubrication**: 0.13 gal/hr (0.49 liters/hr)
- **Grease**: 8 to 10 pumps every 20 minutes of operation time.

**STRIKER PLATE FOR DB 26**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>628 lbs (284 kg)</td>
</tr>
<tr>
<td>Diameter</td>
<td>22.5 in (57.15 cm)</td>
</tr>
<tr>
<td>Area</td>
<td>398 in² (2567.74 cm²)</td>
</tr>
<tr>
<td>Thickness</td>
<td>6 in (15.24 cm)</td>
</tr>
</tbody>
</table>

**CUSHION MATERIAL**

- **Type/Qty**: Micarta / 2 each
- **Diameter-DB26**: 22.5 in (57.15 cm)
- **Thickness**: 1 in (25.4 mm)
- **Type/Qty**: Aluminum / 3 each
- **Thickness**: 1/2 in (12.7 mm)
- **Diameter**: 22.5 in (57.15 cm)
- **Total Combined Thickness**: 3.5 in (8.89 cm)
- **Area**: 398 in² (2567.74 cm²)
- **Elastic-modulus**: 285 ksi (1,965 mpa)
- **Coeff. of restitution**: 0.8

**DRIVE CAP**

- **DB 26**: 1,076 lbs (488 kg)

**INSERT WEIGHT**

- **H-Beam insert for 12” (305 mm) and 14” (355 mm)**: 948 lbs (430 kg)
- **Large pipe insert for sizes 12” to 24” diameter**: 1,830 lbs (830 kg)

**MINIMUM BOX LEAD SIZE/OPERATING LENGTH**

- **Minimum box leader size**: 8 in x 21 in (20.32 cm x 53.34 cm)
- **Operating length w/ base and insert**: 348 in (883.92 cm)

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e-mail: ape@apevibro.com

Note: All specifications are subject to change without notice 08/20/2012