APE Model D125-42 Single Acting Diesel Impact Hammer

MODEL 125-42 (12.5 metric ton ram)

**SPECIFICATIONS**
- Stroke at maximum rated energy: 137 in (343 cm)
- Maximum rated energy (Setting 4): 310,078 ft-lbs (418.61 kNm)
  - Setting 3: 257,365 ft-lbs (347.44 kNm)
  - Setting 2: 232,559 ft-lbs (313.95 kNm)
  - Minimum rated energy (Setting 1): 198,450 ft-lbs (267.91 kNm)

Maximum obtainable stroke: 150 in (381 cm)
Maximum obtainable energy: 412,618 ft-lbs (559 kNm)
Speed (blows per minute): 34-53

**WEIGHTS (Approximate)**
- Piston: 27,563 lbs (12,500 kg)
- Anvil: 6,836 lbs (3,100 kg)
- Anvil cross sectional area: 630.47 in² (4067.54 cm²)
- Hammer weight (including trip device): 62,000 lbs (28,118 kg)
- Typical operating (weight with 8”x54” offshore): Consult Factory

**CAPACITIES**
- Fuel tank (runs on diesel or bio-diesel): 53 gal (96.52 liters)
- Oil tank: 8.3 gal (31 liters)

**CONSUMPTION**
- Diesel or Bio-diesel fuel: 10 gal/hr (24.6 liters/hr)
- Lubrication: 1 gal/hr (1.96 liters/hr)
- Grease: 8 to 10 pumps every 20 minutes of operation time.

**STRIKER PLATE**
- Weight: 1,036 lbs (470 kg)
- Diameter: 25 in (63.5 cm)
- Area: 491 in² (3167.74 cm²)
- Thickness: 8 in (20.32 cm)

**CUSHION MATERIAL**
- Type/Qty: Micarta / 2 each
- Diameter: 25 in (63.5 cm)
- Thickness: 1 in (25.4 mm)
- Type/Qty: Aluminum / 3 each
- Diameter: 25 in (63.5 cm)
- Thickness: 1/2 in (12.7 mm)
- Total Combined Thickness: 3.5 in (8.89 cm)
- Area: 491 in² (3167.74 cm²)
- Elastic-modulus: 285 ksi (1,965 mpa)
- Coeff. of restitution: 0.8

**STANDARD OFFSHORE LEADER**
- 8”x54” for 48” piles and under: Consult Factory

**MINIMUM BOX LEAD SIZE/OPERATING LENGTH**
- Minimum box leader size: 8 in x 43 in (20.32 cm x 109 cm)
- Operating length for offshore leader: 396 in (1005.84 cm)

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