

# APE Model D125-42 Single Acting Diesel Impact Hammer

*D125-42 in an offshore leader*



## MODEL 125-42 (12.5 metric ton ram)

### SPECIFICATIONS

Stroke at maximum rated energy	137 in (343 cm)
Maximum rated energy (Setting 4)	315,315 ft-lbs (427,510 Nm)
Setting 3	282,838 ft-lbs (383,477 Nm)
Setting 2	243,423 ft-lbs (330,033 Nm)
Minimum rated energy (Setting 1)	202,117 ft-lbs (274,030 Nm)
<i>(Variable throttle allows for lower minimum energy and infinite fuel settings.)</i>	
Maximum obtainable stroke	157 in (381 cm)
Maximum obtainable energy	412,618 ft-lbs (559,427 Nm)
Speed (blows per minute)	34-53

### WEIGHTS

Ram	27,563 lbs (12,500 kg)
Anvil	6,836 lbs (3,100 kg)
Anvil cross sectional area	630.47 sq in (1,601 sq-cm)
Hammer weight (includes trip device)	62,000 lbs (28,118 kg)
Typical operating (weight with 8"x54" offshore)	92,000 lbs (41,723 kg)

### 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 45 minutes of operation time.

### 25" STRIKER PLATE

Weight	1,036 lbs (470 kg)
Diameter	25 in (57.15 cm)
Area	471 sq-in (696 sq-cm)
Thickness	8 inches (20.32 cm)

### CUSHION MATERIAL

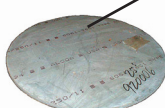
Type/Qty	Micarta/2 ea
Diameter	25 in (57.15 cm)
Thickness	1 in (25.4 mm)

Type/Qty	Aluminum/3 ea
Thickness	1/2 in (12.7 mm)
Diameter	25 in (57.15 cm)
Total Combined Thickness	3.5 inches (8.89 cm)
Area	490 in (1,246 cm)
Elastic-modulus	285 ksi (1,965 mpa)
Coeff. of restitution	.8

*Optional Variable Throttle Control.*



*Cushion material.*



*Typical 54" offshore.*



### STANDARD OFFSHORE LEADER

8"x54" for 48" piles and under	30,000 lbs (13,607 kg)
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### 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 (10 m)



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