

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)	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)

(Variable throttle allows for infinite fuel settings)

Maximum obtainable stroke	157 in (381 cm)
Maximum obtainable energy	412,618 ft-lbs (559 kNm)
Speed (blows per minute)	34-53

WEIGHTS (Approximate)

Ram	27,563 lbs (12,500 kg)
Anvil	6,836 lbs (3,100 kg)
Anvil cross sectional area	630.47 in ² (4067.54 cm ²)
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 20 minutes of operation time.

Optional Variable Throttle Control.



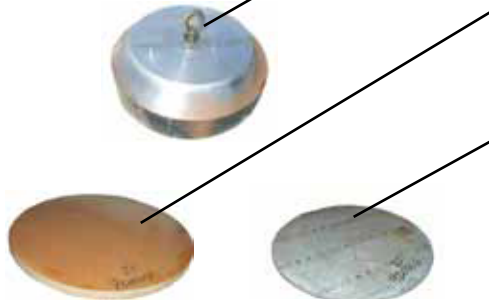
STRIKER PLATE

Weight	1,036 lbs (470 kg)
Diameter	25 in (63.5 cm)
Area	491 in ² (3167.74 cm ²)
Thickness	8 in (20.32 cm)

Cushion material.

CUSHION MATERIAL

Type/Qty	Micarta / 2 each
Diameter	25 in (63.5 cm)
Thickness	1 in (25.4 mm)



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

Typical 54" offshore.



STANDARD OFFSHORE LEADER

8"x54" for 48" piles and under	Consult Factory
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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 (1005.84 cm)



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