

APE D100-42 Single Acting Diesel Impact Hammer

D100-42 in a bottom drive.



MODEL D100-42 (10.0 metric ton ram)

SPECIFICATIONS

Stroke at maximum rated energy	135 in (343 cm)
Maximum rated energy (Setting 4)	248,063 ft-lbs (336,324 Nm)
Setting 3	222,512 ft-lbs (301,682 Nm)
Setting 2	191,500 ft-lbs (259,636 Nm)
Minimum rated energy (Setting 1)	159,008 ft-lbs (215,5864 Nm)
<i>(Variable throttle allows for lower minimum energy and infinite fuel settings.)</i>	

Maximum obtainable stroke	157 in (381 cm)
Maximum obtainable energy	288,488 ft-lbs (391,132 Nm)
Speed (blows per minute)	34-53

WEIGHTS

Ram	22,050 lbs (10,000 kg)
Anvil	4,670 lbs (2,118 kg)
Anvil cross sectional area	482.8 sq in (1,226.3 sq-cm)
Hammer weight (includes hydraulic trip device)	47,000 lbs (21,318 kg)
Typical operating (weight with offshore leader)	77,000 lbs (34,920 kg)

CAPACITIES

Fuel tank (runs on diesel or bio-diesel)	40.3 gal (153 liters)
Oil tank	8.3 gal (31.5 liters)

CONSUMPTION

Diesel or Bio-diesel fuel	7.8gal/hr (30 liters/hr)
Lubrication	.67 gal/hr (2.5 liters/hr)
Grease	8 to 10 pumps every 45 minutes of operation time.

Optional Variable Throttle Control.



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.



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 inches (5.08)
Area	490 in (1,246 cm)
Elastic-modulus	285 ksi (1,965 mpa)
Coeff. of restitution	.8

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 37 in (20.32 cm x 94 cm)
Operating length for offshore leader	396 in (9.75 m)



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