

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	7.8 gal/hr (30 liters/hr)
Lubrication	.67 gal/hr (2.5 liters/hr)
Grease	8 to 10 pumps every 45 minutes of operation time.

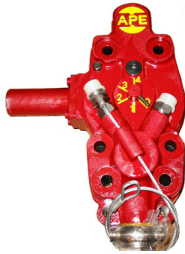
STRIKER PLATE

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)

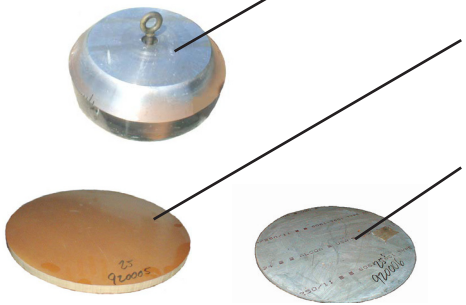
CUSHION MATERIAL

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



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