

APE D138-42 Single Acting Diesel Impact Hammer

D138-42 in an offshore leader.



MODEL D138-42 (13.8 metric ton ram)

SPECIFICATIONS

Stroke at maximum rated energy	135 in (343 cm)
Maximum rated energy (Setting 4)	342,326 ft-lbs (438,074 Nm)
Setting 3	312,252 ft-lbs (392,952 Nm)
Setting 2	268,739 ft-lbs (338,193 Nm)
Minimum rated energy (Setting 1)	223,107 ft-lbs (280,805 Nm)
<i>(Variable throttle allows for lower minimum energy and infinite fuel settings.)</i>	

Maximum obtainable stroke	179 in (381 cm)
Maximum obtainable energy	455,522 ft-lbs (573,249 Nm)
Speed (blows per minute)	34-53

WEIGHTS

Ram	30,429 lbs (12,800 kg)
Anvil	7,665 lbs (3,476 kg)
Anvil cross sectional area	630.47 sq in (1,601 sq-cm)
Hammer weight (includes hydraulic trip device)	70,295 lbs (31,879 kg)
Typical operating (weight with offshore leader)	112,295 lbs (50,927 kg)

CAPACITIES

Fuel tank (runs on diesel or bio-diesel)	53 gal (155 liters)
Oil tank	8 gal (32 liters)

CONSUMPTION

Diesel or Bio-diesel fuel	11 gal/hr (30 liters/hr)
Lubrication	1 gal/hr (2.9 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

Standard Offshore.



OFFSHORE LEADER

Offshore for 98"/2.5 meter piles and under	42,000lbs (19,050 kg)
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MINIMUM BOX LEAD SIZE/OPERATING LENGTH

Minimum box leader size	8 in x 43 in (3.14 cm x 109 cm)
Operating length for offshore leader	408 in (10.3 m)



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