

APE D180-42 Single Acting Diesel Impact Hammer

D180-42 driving 48" piles with a 54" offshore.



MODEL D180-42 (18.0 metric ton ram)

SPECIFICATIONS

Stroke at maximum rated energy	135 in (343 cm)
Maximum rated energy (Setting 4)	454,054 ft-lbs (615,615 Nm)
Setting 3	407,286 ft-lbs (552,207 Nm)
Setting 2	350,530 ft-lbs (475,255 Nm)
Minimum rated energy (Setting 1)	291,049 ft-lbs (394,610 Nm)

(Variable throttle allows for lower minimum energy and infinite fuel settings.)

Maximum obtainable stroke	201 in (381 cm)
Maximum obtainable energy	666,395 ft-lbs (195,567 Nm)
Speed (blows per minute)	34-53

WEIGHTS

Ram	39,690 lbs (18,000 kg)
Anvil	10,223 lbs (4,642 kg)
Anvil cross sectional area	837.85 sq-in (2,128 sq-cm)
Hammer weight (includes hydraulic trip device)	92,000 lbs (11,286 kg)
Typical operating (weight with 10"x68" offshore)	138,000 lbs (62,595 kg)

CAPACITIES

Fuel tank (<i>runs on diesel or bio-diesel</i>)	63.4 gal (240 liters)
Oil tank	10.3 gal (40 liters)

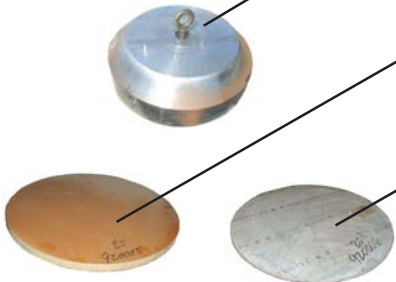
Optional Variable Throttle Control.



CONSUMPTION

Diesel or Bio-diesel fuel	14 gal/hr (30 liters/hr)
Lubrication	1.18 gal/hr (2.9 liters/hr)
Grease	8 to 10 pumps every 45 minutes of operation time.

Cushion Material.



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

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	10 in x 54 in (25.4 cm x 137 cm)
Operating length for offshore leader	433 in (11 m)



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