

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)	446,513 ft-lbs (602.79 kNm)
Setting 3	397,396 ft-lbs (536.48 kNm)
Setting 2	343,815 ft-lbs (464.15 kNm)
Minimum rated energy (Setting 1)	272,373 ft-lbs (367.70 kNm)

(Variable throttle allows for infinite fuel settings)

Maximum obtainable stroke	150 in (381 cm)
Maximum obtainable energy	666,395 ft-lbs (196 kNm)
Speed (blows per minute)	34-53

WEIGHTS (Approximate)

Piston	39,690 lbs (18,000 kg)
Anvil	10,223 lbs (4,642 kg)
Anvil cross sectional area	837.85 in ² (5405.47 cm ²)
Hammer weight (includes hydraulic trip device)	92,000 lbs (11,286 kg)
Typical operating (weight with 10"x68" offshore)	Consult Factory

CAPACITIES

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

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 20 minutes of operation time.

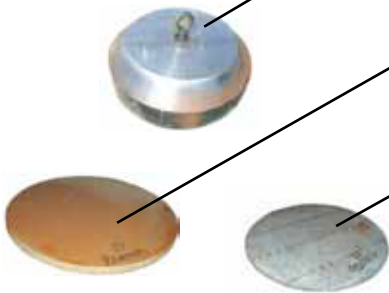
Optional Variable Throttle Control.



STRIKER PLATE

Weight	2,400 lbs (1089 kg)
Diameter	30 in (76.2 cm)
Area	706 in ² (4,555 cm ²)
Thickness	12 in (77.4 cm)

Cushion Material.



CUSHION MATERIAL

Type/Qty	Micarta / 3 each
Diameter	30 in (76.2 cm)
Thickness	1 in (25.4 mm)
Type/Qty	Aluminum / 4 each
Thickness	1/2 in (12.7 mm)
Diameter	30 in (76.2 cm)
Total Combined Thickness	5 in (12.7 cm)
Area	706 in ² (4,555 cm ²)
Elastic-modulus	285 ksi (1,965 mpa)
Coeff. of restitution	

Standard Offshore.



OFFSHORE LEADER

Offshore for 98"/2.5 meter piles and under	Consult Factory
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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 (1099.82 cm)



Corporate Offices
7032 South 196th
Kent, Washington 98032 USA
(800) 248-8498 & (253) 872-0141
(253) 872-8710 Fax

Visit our WEB site:
www.apevibro.com
e-mail: ape@apevibro.com