

APE D160-42 Single Acting Diesel Impact Hammer

D160-42 driving 48" piles with a 54" offshore.



MODEL D160-42 (16.0 metric ton ram)

SPECIFICATIONS

Stroke at maximum rated energy	135 in (343 cm)
Maximum rated energy (Setting 4)	403,603 ft-lbs (547,205 Nm)
Setting 3	362,033 ft-lbs (490,844 Nm)
Setting 2	311,582 ft-lbs (422,443 Nm)
Minimum rated energy (Setting 1)	258,710 ft-lbs (350,759 Nm)
<i>(Variable throttle allows for lower minimum energy and infinite fuel settings.)</i>	

Maximum obtainable stroke	201 in (511 cm)
Maximum obtainable energy	591,646 ft-lbs (802,153 Nm)
Speed (blows per minute)	34-53

WEIGHTS

Ram	35,280 lbs (16,000 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)
Hammer weight (includes trip device)	85,000 lbs (11,286 kg)
Typical operating (weight w/ 98"/2.5m offshore)	127,000 lbs (13,481 kg)

CAPACITIES

Fuel tank (runs on diesel or bio-diesel)	63 gal (155 liters)
Oil tank	11 gal (32 liters)

Optional Variable Throttle Control.



CONSUMPTION

Diesel or Bio-diesel fuel	12 gal/hr (30 liters/hr)
Lubrication	1 gal/hr (2.9 liters/hr)
Grease	8 to 10 pumps every 45 minutes of operation time.

Cushion Material.



25" 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	1in (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	10 in x 54 in (25.4 cm x 137 cm)
Operating length for offshore leader	433 in (11 m)



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