

APE Model D80-42 Single Acting Diesel Impact Hammer

D80-42 in an offshore Leader.



MODEL D80-42 (8.0 metric ton ram)

SPECIFICATIONS

Stroke at maximum rated energy	135 in (343 cm)
Maximum rated energy (Setting 4)	198,450 ft-lbs (269,059 Nm)
Setting 3	178,010 ft-lbs (241,346 Nm)
Setting 2	153,203 ft-lbs (207,713 Nm)
Minimum rated energy (Setting 1)	127,206 ft-lbs (172,466 Nm)

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

Maximum obtainable stroke	157 in (381 cm)
Maximum obtainable energy	231,084 ft-lbs (313,304 Nm)
Speed (blows per minute)	34-53

WEIGHTS

Ram	17,640 lbs (8,000 kg)
Anvil	4,670 lbs (2,118 kg)
Anvil cross sectional area	630.47 sq in (1,601 sq-cm)
Hammer weight (includes trip device)	38,434 lbs (17,433 kg)
Typical operating (weight with 8"x54" offshore)	68,434 lbs (31,4041 kg)

CAPACITIES

Fuel tank (runs on diesel or bio-diesel)	40.3 gal (96.52 liters)
Oil tank	8.3 gal (31 liters)

CONSUMPTION

Diesel or Bio-diesel fuel	6.5 gal/hr (24.6 liters/hr)
Lubrication	.67 gal/hr (1.96 liters/hr)
Grease	8 to 10 pumps every 45 minutes of operation time.

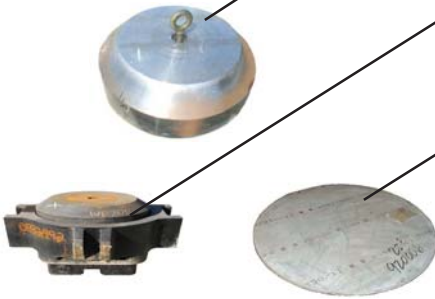
Optional Variable Throttle Control.



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.



CUSHION MATERIAL

Type/Qty	Micarta/3 ea
Diameter	25 in (57.15 cm)
Thickness	1in (25.4 mm)
Type/Qty	Aluminum/4 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	.8

Typical 54" 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 37 in (20.32 cm x 94 cm)
Operating length for offshore leader	384 in (9.75 m)



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