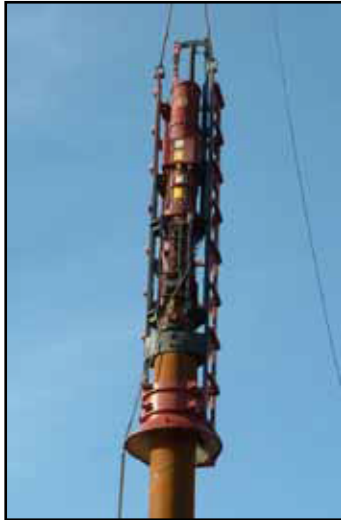


APE Model D80-52 Single Acting Diesel Impact Hammer

D80-52 in an offshore Leader.



MODEL D80-52 (8.0 metric ton ram)

SPECIFICATIONS

Stroke at maximum rated energy	135 in (343 cm)
Maximum rated energy (Setting 4)	198,450 ft-lbs (267.91 kNm)
Setting 3	176,621 ft-lbs (238.44 kNm)
Setting 2	146,853 ft-lbs (198.25 kNm)
Minimum rated energy (Setting 1)	127,008 ft-lbs (171.46 kNm)
<i>(Variable throttle allows for infinite fuel settings)</i>	

Maximum obtainable stroke	150 in (381 cm)
Maximum obtainable energy	231,084 ft-lbs (313 kNm)
Speed (blows per minute)	34-53

WEIGHTS (Approximate)

Piston	17,640 lbs (8,000 kg)
Anvil	4,670 lbs (2,118 kg)
Anvil cross sectional area	630.47 in ² (4067.54 cm ²)
Hammer weight (includes trip device)	38,434 lbs (17,433 kg)
Typical operating (weight with Off-Shore Leader)	Consult Factory

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	0.67 gal/hr (1.96 liters/hr)
Grease	8 to 10 pumps every 20 minutes of operation time.

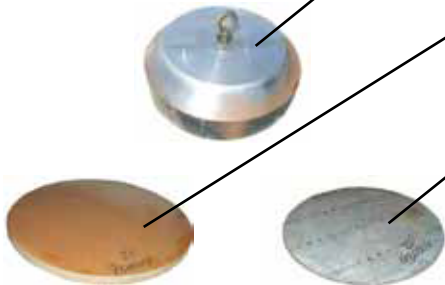
Optional Variable Throttle Control.



STRIKER PLATE

Weight	1,036 lbs (470 kg)
Diameter	25 in (63.5 cm)
Area	471 sq-in (696 sq-cm)
Thickness	8 in (20.32 cm)

Cushion material.



CUSHION MATERIAL

Type/Qty	Micarta / 3 each
Diameter	25 in (63.5 cm)
Thickness	1 in (25.4 mm)
Type/Qty	Aluminum / 4 each
Thickness	1/2 in (12.7 mm)
Diameter	25 in (63.5 cm)
Total Combined Thickness	5 in (12.7 cm)
Area	491 in ² (3167.74 cm ²)
Elastic-modulus	285 ksi (1,965 mpa)
Coeff. of restitution	0.8

Typical 54" 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	8 in x 37 in (20.32 cm x 94 cm)
Operating length for offshore leader	384 in (975.36 cm)



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