

# 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)	396,900 ft-lbs (535.82 kNm)
Setting 3	329,427 ft-lbs (444.73 kNm)
Setting 2	301,644 ft-lbs (407.22 kNm)
Minimum rated energy (Setting 1)	242,109 ft-lbs (326.85 kNm)

*(Variable throttle allows for infinite fuel settings)*

Maximum obtainable stroke (to catch ring)	150 in (381 cm)
Maximum obtainable energy (to catch ring) Speed (blows per minute)	591,646 ft-lbs (802 kNm) 34-53

### WEIGHTS (Approximate)

Piston	35,280 lbs (16,000 kg)
Anvil	10,223 lbs (4,642 kg)
Anvil cross sectional area	837.85 in <sup>2</sup> (5405.47 cm <sup>2</sup> )
Hammer weight (includes trip device)	85,000 lbs (38,555 kg)
Typical operating (weight with DB26 and H-beam insert)	Consult Factory

### CAPACITIES

Fuel tank (runs on diesel or bio-diesel)	63 gal (238 liters)
Oil tank	11 gal (41.63 liters)

### CONSUMPTION

Diesel or Bio-diesel fuel	12 gal/hr (54 liters/hr)
Lubrication	1 gal/hr (2.9 liters/hr)
Grease	8 to 10 pumps every 20 minutes of operation time.

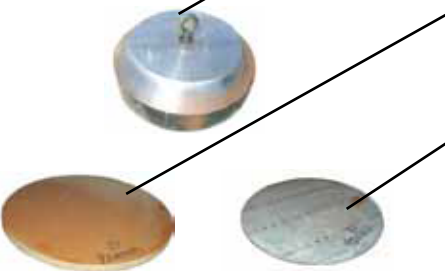
*Optional Variable Throttle Control.*



### STRIKER PLATE

Weight	2,400 lbs (1089 kg)
Diameter	30 in (76.2 cm)
Area	706 in <sup>2</sup> (4,555 cm <sup>2</sup> )
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 <sup>2</sup> (4,555 cm <sup>2</sup> )
Elastic-modulus	285 ksi (1,965 mpa)
Coeff. of restitution	

*Standard 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	54 in (137 cm)
Hammer operating length with box helmet	441 in (1120.14 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](http://www.apevibro.com)  
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