



APE Single Acting Diesel Impact Hammer

THE WORLD'S LARGEST PILEDRIVERS

Model D180-42

SPECIFICATIONS

Stroke at Maximum Rated Energy	(Setting 4)	135 in (343 cm)
Maximum Rated Energy	(Setting 3)	446,445 ft-lbs (605.27 kNm)
	(Setting 2)	370,549 ft-lbs (502.37 kNm)
Minimum Rated Energy	(Setting 1)	294,654 ft-lbs (399.48 kNm)
(VARIABLE THROTTLE ALLOWS FOR INFINITE FUEL SETTING)		218,758 ft-lbs (296.58 kNm)

Maximum Obtainable Stroke	150 in (381 cm)
Maximum Obtainable Energy	496,050 ft-lbs (672.52 kNm)
Speed (Blows Per Minute)	34-53

WEIGHTS (APPROXIMATE)

Piston	36,684 lbs (18,000 kg)
Anvil	10,223 lbs (4,637 kg)
Anvil Cross Sectional Area	837.85 in ² (5,405.47 cm ²)
Hammer Weight (Includes Trip Device)	92,000 lbs (41,730 kg)
Typical Operating (Weight With Offshore Leader)	Consult Factory

CAPACITIES

Fuel Tank (Runs on Diesel or Bio-Diesel)	63.4 Gal (239.9 Liters)
Oil Tank	10.3 Gal (38.9 Liters)

CONSUMPTION

Diesel or Bio-Diesel	14 Gal/hr (52.9 Liters/hr)
Oil Tank	1.18 Gal/hr (4.4 Liters/hr)
Grease	8 to 10 Pumps Every 20 Minutes of Operation Time.

STRIKER PLATE

Weight	2,400 lbs (1,089 kg)
Diameter	30 in (76.2 cm)
Area	706 in ² (4,555 cm ²)
Thickness	12 in (30.48 cm)

CUSHION MATERIAL

Type/Qty	Micarata / 3 each
Diameter-DB32	30 in (76.2 cm)
Thickness	1 in (2.54 cm)
Type/Qty	Aluminum / 4 each
Thickness	1/2 in (1.27 cm)
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	0.8

OFFSHORE LEADER

Offshore for 98 in / 2.5 meter piles and under	Consult Factory
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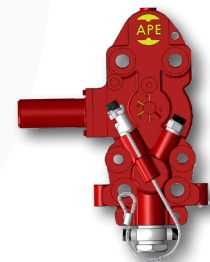
MINIMUM BOX LEAD SIZE / OPERATING LENGTH

Minimum Box Leader Size	10 in x 54 in (25.4 cm x 137 cm)
Hammer Operating Length with Box Helmet	433 in (1,099.82 cm)

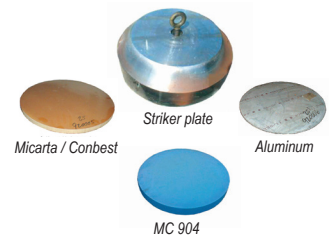


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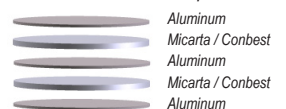
Optional Variable Throttle Control



Cushion Material



9" Well Stack up



Specifications may vary due to site conditions, specific hammer conditions or product set up.
 Specifications may change without notice.
 Consult the factory for details on any specific product (800) 248-8498.
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