



APE Single Acting Diesel Impact Hammer

THE WORLD'S LARGEST PILEDRIERS

Model D100-42

SPECIFICATIONS

Stroke at Maximum Rated Energy		135 in (343 cm)
Maximum Rated Energy	(Setting 4)	248,063 ft-lbs (336.31 kNm)
	(Setting 3)	205,892 ft-lbs (279.14 kNm)
	(Setting 2)	163,721 ft-lbs (221.96 kNm)
Minimum Rated Energy	(Setting 1)	121,551 ft-lbs (164.79 kNm)
<i>(VARIABLE THROTTLE ALLOWS FOR INFINITE FUEL SETTING)</i>		

Maximum Obtainable Stroke	150 in (381 cm)
Maximum Obtainable Energy	275,625 ft-lbs (373.68 kNm)
Speed (Blows Per Minute)	34-53

WEIGHTS (APPROXIMATE)

Piston	22,047 lbs (10,000 kg)
Anvil	4,670 lbs (2,118 kg)
Anvil Cross Sectional Area	482.8 in ² (3,114.83 cm ²)
Hammer Weight (Includes Trip Device)	47,000 lbs (21,318 kg)
Typical Operating (Weight With Offshore Leader)	Consult Factory

CAPACITIES

Fuel Tank (Runs on Diesel or Bio-Diesel)	40.3 Gal (153 Liters)
Oil Tank	8.3 Gal (31.4 Liters)

CONSUMPTION

Diesel or Bio-Diesel	7.8 Gal/hr (29.5 Liters/hr)
Oil Tank	0.67 Gal/hr (2.5 Liters/hr)
Grease	8 to 10 Pumps Every 20 Minutes of Operation Time.

STRIKER PLATE

Weight	1,036 lbs (470 kg)
Diameter	25 in (63.5 cm)
Area	491 in ² (3,167.74 cm ²)
Thickness	8 in (20.32 cm)

CUSHION MATERIAL

Type/Qty	Micarata / 2 each
Diameter-DB32	25 in (63.5 cm)
Thickness	1 in (2.54 cm)

Type/Qty	Aluminum / 3 each
Thickness	1/2 in (1.27 cm)
Diameter	25 in (63.5 cm)
Total Combined Thickness	3.5 in (8.89 cm)
Area	491 in ² (3,167.74 cm ²)
Elastic-Modulus	285 ksi (1,965 mpa)
Coeff. of Restitution	0.8

STANDARD OFFSHORE LEADER

8 in x 54 in for 48 in Piles and Under	Consult Factory
--	-----------------

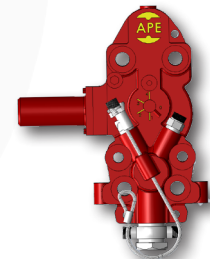
MINIMUM BOX LEAD SIZE / OPERATING LENGTH

Minimum Box Leader Size	8 in x 37 in (20.32 cm x 94 cm)
Operating Length as Described above	396 in (1,005.84 cm)

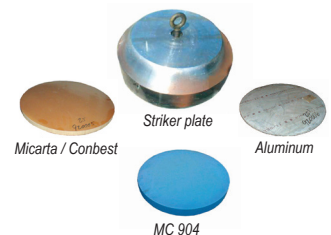


Image may not represent actual Model

Optional Variable Throttle Control



Cushion Material



6" 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.

Copyright © 2022 American Piledriving Equipment Inc. All Rights Reserved



WWW.AMERICANPILEDIVING.COM

Ape@americanpiledriving.com