

APE Model D12-42 Single Acting Diesel Impact Hammer

MODEL D12-42 (1.2 metric ton ram)

SPECIFICATIONS

Stroke at rated energy	135 in (343 cm)
Maximum rated energy (setting 4)	29,768 ft-lbs (40.19 kNm)
Pump setting 3	24,707 ft-lbs (33.35 kNm)
Pump setting 2	19,647 ft-lbs (26.52 kNm)
Minimum rated energy(setting 1)	14,884 ft-lbs (20.09 kNm)
<i>(Variable throttle allows for infinite fuel settings)</i>	

Maximum obtainable stroke (to catch ring)	150 in (381 cm)
Maximum obtainable energy (to catch ring)	32,634 ft-lbs (44 kNm)
Speed (blows per minute)	34-53

WEIGHTS (Approximate)

Piston	2,646 lbs (798 kg)
Anvil	604 lbs (274 kg)
Anvil cross sectional area	124.42 in ² (802.71 cm ²)
Hammer weight (includes trip device)	6,890 lbs (1,950 kg)
Typical operating (wt w/DB26 and H-beam insert)	9,454 lbs (20,842 kg)

CAPACITIES

Fuel tank (runs on diesel or bio-diesel)	6.2 gal (23 liters)
Oil tank	1.6 gal (6 liters)

CONSUMPTION

Diesel or Bio-diesel fuel	1.17 gal/hr (4.4 liters/hr)
Lubrication	0.13 gal/hr (.49 liters/hr)
Grease	8 to 10 pumps every 20 minutes of operation time.

A D12-42 driving H-beam.



Variable Throttle.



Drive Base Assembly.



STRIKER PLATE FOR DB 26

Weight	628 lbs (284 kg)
Diameter	22.5 in (57.15 cm)
Area	398 in ² (2567.74 cm ²)
Thickness	6 in (15.24 cm)

STRIKER PLATE FOR DB 20

Weight	440 lbs (199 kg)
Diameter	17.75 in (45.08 cm)
Area	247 in ² (1593.55 cm ²)
Thickness	6 in (15.24 cm)

CUSHION MATERIAL

Type	Monocast MC 904
Diameter-DB26	22.5 in (57.15 cm)
Diameter-DB20	17.75 in (45.08 cm)
Thickness	2 in (5.08 cm)
Elastic-modulus	285 ksi (1,965 mpa)
Coeff. of restitution	0.8

DRIVE CAP

DB 26:	1,076 lbs (488 kg)
DB 20:	750 lbs (340 kg)

INSERT WEIGHT

H-Beam insert for 12" (305 mm) and 14" (355 mm):	948 lbs (430 kg)
Large pipe insert for sizes 12" to 24" diameter:	1,830 lbs (830 kg)

MINIMUM LEADER SIZE/OPERATING LENGTH

Minimum box leader size	8 in x 21 in (20.32 cm x 53.34 cm)
Operating length as described above	348 in (883.92 cm)



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