

APE Model D16-42 Single Acting Diesel Impact Hammer

MODEL D16-42 (1.6 metric ton ram)

A D16-42 driving H-beam.



SPECIFICATIONS

Stroke at maximum rated energy	135 in (343 cm)
Maximum rated energy (Setting 4)	39,690 ft-lbs (53.58 kNm)
Setting 3	32,943 ft-lbs (44.47 kNm)
Setting 2	26,195 ft-lbs (35.36 kNm)
Minimum rated energy (Setting 1)	19,845 ft-lbs (26.79 kNm)

(Variable throttle allows for infinite fuel settings)

Maximum obtainable stroke	12 feet 5 in (381 cm)
Maximum obtainable energy	43,606 ft-lbs (59 kNm)
Speed (blows per minute)	34-52

WEIGHTS (Approximate)

Piston	3,528 lbs (1,600 kg)
Anvil	749 lbs (340 kg)
Anvil cross sectional area	124.42 in ² (802.71 cm ²)
Hammer weight (includes trip device)	8,000 lbs (1,950 kg)
Typical operating weight (With DB26 and H-beam insert)	10,772 lbs (3,153 kg)

CAPACITIES

Fuel tank (runs on diesel or bio-diesel)	8.3 gal (7.2 liters)
Oil tank	2.3 gal (6 liters)

CONSUMPTION

Diesel or Bio-diesel fuel	1.9 gal/hr (250 liters/hr)
Lubrication	0.13 gal/hr (.49 liters/hr)
Grease	8 to 10 pumps every 20 minutes of operation time.

Variable Throttle.



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 base Assembly.



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 BOX LEAD SIZE/OPERATING LENGTH

Minimum box leader size	8 in x 21 in (20.32 cm x 53.34 cm)
Operating length w/ base and insert	348 in (883.92 cm)



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