

APE Model D16-42 Single Acting Diesel Impact Hammer

A D16-42 driving H-beam.



MODEL D16-42 (1.6 metric ton ram)

SPECIFICATIONS

Stroke at maximum rated energy	135 in (343 cm)
Maximum rated energy (Setting 4)	39,690 ft-lbs (53,812 Nm)
Setting 3	35,523 ft-lbs (48,162 Nm)
Setting 2	26,553 ft-lbs (36,001 Nm)
Minimum rated energy (Setting 1)	19,051 ft-lbs (25,829 Nm)
<i>(Variable throttle allows for lower minimum energy and infinite fuel settings.)</i>	
Maximum obtainable stroke	12 feet 4 in (376 cm)
Maximum obtainable energy	43,606 ft-lbs (59,120 Nm)
Speed (blows per minute)	34-52

WEIGHTS

Ram	3,528 lbs (798 kg)
Anvil	749 lbs (340 kg)
Anvil cross sectional area	124.42 sq in (316.02 sq-cm)
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	.13 gal/hr (.49 liters/hr)
Grease	8 to 10 pumps every 45 minutes of operation time.

Variable Throttle.



STRIKER PLATE FOR DB 26

Weight	628 lbs (284 kg)
Diameter	22.5 in (57.15 cm)
Area	471 sq-in (696 sq-cm)
Thickness	6 inches (15.24 cm)

STRIKER PLATE FOR DB 20

Weight	440 lbs (199 kg)
Diameter	17 3/4 in (45.08 cm)
Area	247 sq-in (628 sq-cm)
Thickness	6 inches (15.24 cm)

Drive base Assembly.



CUSHION MATERIAL

Type	Monocast MC 904
Diameter-DB26	22.5 in (57.15 cm)
Diameter-DB20	17.3/4 in (45.08 cm)
Thickness	2 inches (5.08 cm)
Elastic-modulus	285 ksi (1,965 mpa)
Coeff. of restitution	.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 BOX LEAD SIZE/OPERATING LENGTH

Minimum box leader size	8 in x 21 in (3.14 cm x 53.34 cm)
Operating length w/ base and insert	348 in (884 cm)



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