

APE Model D19-42 Single Acting Diesel Impact Hammer

D19-42 driving H-beam.



MODEL D19-42 (1.9 metric ton ram)

SPECIFICATIONS

Stroke at maximum rated energy	135 in (343 cm)
Maximum rated energy (Setting 4)	47,335 ft-lbs (64,177 Nm)
Setting 3	37,868 ft-lbs (51,341 Nm)
Setting 2	31,715 ft-lbs (42,999 Nm)
Minimum rated energy (Setting 1)	22,721 ft-lbs (2,567 Nm)
<i>(Variable throttle allows for lower minimum energy and infinite fuel settings.)</i>	

Maximum obtainable stroke	150 in (381 cm)
Maximum obtainable energy	52,362 ft-lbs (70,992 Nm)
Speed (blows per minute)	34-52

WEIGHTS

Ram	4,189 lbs (1,900 kg)
Anvil	749 lbs (340 kg)
Anvil cross sectional area	124.42 sq in (316.02 sq-cm)
Hammer weight (includes trip device)	8,400 lbs (3,810 kg)
Typical operating (weight with DB26 and H-beam insert)	11,052 lbs (5,013 kg)

CAPACITIES

Fuel tank (runs on diesel or bio-diesel)	8.3 gal (31.41 liters)
Oil tank	2.3 gal (8.7 liters)

CONSUMPTION

Diesel or Bio-diesel fuel	1.3 gal/hr (6.6 liters/hr)
Lubrication	.13 gal/hr (.49 liters/hr)
Grease	8 to 10 pumps every 45 minutes of operation time.

Optional 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)

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)
Elastic-modulus	285 ksi (1,965 mpa)
Coeff. of restitution	.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 (3.14 cm x 53.34 cm)
Operating length w/ base and insert	348 in (884 cm)



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