

# APE Model D8-42 Single Acting Diesel Hammer

## MODEL D8-42 (.8 metric ton ram)

D8-42 in test stand.



### SPECIFICATIONS

Stroke at maximum rated energy	135 in (343 cm)
Maximum rated energy (Setting 4)	19,845 ft-lbs (27.79 kNm)
Setting 3	16,471 ft-lbs (22.24 kNm)
Setting 2	13,098 ft-lbs (17.68 kNm)
Minimum rated energy (Setting 1)	9,724 ft-lbs (13.13 kNm)
<i>(Variable throttle allows for infinite fuel settings)</i>	

Maximum obtainable stroke	150 in (381 cm)
Maximum obtainable energy	22,000 ft-lbs (30 kNm)
Speed (blows per minute)	34-52

### WEIGHTS (Approximate)

Piston	1,760 lbs (798 kg)
Anvil	352 lbs (160 kg) 76 in <sup>2</sup>
Anvil cross sectional area	(490.32 cm <sup>2</sup> )
Hammer weight (includes trip device)	6,250 lbs (2,835 kg)
Typical operating (weight with DB26 and H-beam insert)	7,302 lbs (3,312 kg)

### CAPACITIES

Fuel tank (runs on diesel or bio-diesel)	4.7 gal (17.79 liters)
Oil tank	1.3 gal (6 liters)

### CONSUMPTION

Diesel or bio-diesel fuel	0.06 gal/hr (.49 liters/hr)
Oil tank	1.3 gal (4.9 liters/hr)
Grease	8 to 10 pumps every 20 minutes of operation time.

Optional Variable Throttle Control.



### STRIKER PLATE FOR DB 26

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

### STRIKER PLATE FOR DB 20

Weight	440 lbs (199 kg)
Diameter	17.75 in (45 cm)
Area	247 in <sup>2</sup> (1593.55 cm <sup>2</sup> )
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 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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