

# 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)	19,800 ft-lbs (26,845 Nm)
Setting 3	15,910 ft-lbs (21,571 Nm)
Setting 2	11,930 ft-lbs (16,175 Nm)
Minimum rated energy (Setting 1)	9,435 ft-lbs (12,792 Nm)
<i>(Variable throttle allows for lower minimum energy and infinite fuel settings.)</i>	

Maximum obtainable stroke	150 in (381 cm)
Maximum obtainable energy	22,000 ft-lbs (29,828 Nm)
Speed (blows per minute)	34-52

### WEIGHTS

Ram	1,760 lbs (798 kg)
Anvil	352 lbs (160 kg)
Anvil cross sectional area	76 sq in (193.04 sq-cm)
Hammer weight (includes trip device)	4,540 lbs (2,059 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	.06 gal/hr (.49 liters/hr)
Oil tank	1.3 gal (4.9 liters/hr)
Grease	8 to 10 pumps every 45 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	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 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 LEADER SIZE/OPERATING LENGTH

Minimum box leader size	8 in x 21 in (3.14 cm x 53.34 cm)
Operating length as described above	348 in (884 cm)



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