

# APE Model D36-42 Single Acting Diesel Impact Hammer

## MODEL D36-42 (3.6 metric ton ram)

*D36-42 in fixed leads.*



### SPECIFICATIONS

Stroke at maximum rated energy	135 in (343 cm)
Maximum rated energy (Setting 4)	89,303 ft-lbs (120.56 kNm)
Setting 3	74,121 ft-lbs (100.06 kNm)
Setting 2	58,940 ft-lbs (79.57 kNm)
Minimum rated energy (Setting 1)	43,758 ft-lbs (59.07 kNm)
<i>(Variable throttle allows for infinite fuel settings)</i>	

Maximum obtainable stroke	150 in (381 cm)
Maximum obtainable energy	103,855 ft-lbs (141 kNm)
Speed (blows per minute)	34-53

### WEIGHTS (Approximate)

Ram	7,938 lbs (3,600 kg)
Anvil	1,023 lbs (2,255 kg)
Anvil cross sectional area	367.94 in <sup>2</sup> (2373.80 cm <sup>2</sup> )
Hammer weight (includes trip device)	22,795 lbs (10,866 kg)
Typical operating (weight with DB32 and pipe insert)	28,097 lbs (12,742 kg)

### CAPACITIES

Fuel tank (runs on diesel or bio-diesel)	23.1 gal (87 liters)
Oil tank	4.5 gal (17 liters)

### CONSUMPTION

Diesel or Bio-diesel fuel	3 gal/hr (11 liters/hr)
Lubrication	0.39 gal/hr (1.4 liters/hr)
Grease	8 to 10 pumps every 20 minutes of operation time.

*Optional Variable Throttle Control*



*Drive Base Assembly*



### STRIKER PLATE FOR DB 32

Weight	1,036 lbs (470 kg)
Diameter	25 in (57.15 cm)
Area	491 in <sup>2</sup> (3167.74 cm <sup>2</sup> )
Thickness	8 in (20.32 cm)

### CUSHION MATERIAL

Type/Qty	Micarta / 2 each
Diameter	25 in (57.15 cm)
Thickness	1 in (25.4 mm)
Type/Qty	Aluminum / 3 each
Thickness	1/2 in (12.7 mm)
Diameter	25 in (57.15 cm)
Total Combined Thickness	3.5 in (8.89 cm)
Area	491 in <sup>2</sup> (3167.74 cm <sup>2</sup> )
Elastic-modulus	285 ksi (1,965 mpa)
Coeff. of restitution	0.8

### DRIVE CAP

DB 32:	2,436 lbs (1,104 kg)
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### 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 32 in (20.32 cm x 81.28 cm)
Operating length as described above	354 in (900 cm)



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