

APE Model D70-42 Single Acting Diesel Impact Hammer

MODEL D70-42 (7.0 metric ton ram)

D70-42 in a stand-off.



SPECIFICATIONS

Stroke at maximum rated energy	135 in (343 cm)
Maximum rated energy (Setting 4)	173,644 ft-lbs (234.42 kNm)
Setting 3	144,124 ft-lbs (194.57 kNm)
Setting 2	114,605 ft-lbs (154.72 kNm)
Minimum rated energy (Setting 1)	86,822 ft-lbs (117.21 kNm)
<i>(Variable throttle allows for infinite fuel settings)</i>	

Maximum obtainable stroke (to catch ring)	150 in (381 cm)
Maximum obtainable energy (for restrike only)	201,936 ft-lbs (274 kNm)
Speed (blows per minute)	34-53

WEIGHTS (Approximate)

Piston	15,435 lbs (7,000 kg)
Anvil	2,425 lbs (1,100 kg)
Anvil cross sectional area	367.94 in ² (2373.80 cm ²)
Hammer weight (includes trip device)	30,864 lbs (14,000 kg)
Typical operating (weight with DB32 and large pipe insert)	36,164 lbs (16,404 kg)

CAPACITIES:

Fuel tank (runs on diesel or bio-diesel)	25.5 gal (96.52 liters)
Oil tank	8.2 gal (31 liters)

CONSUMPTION

Diesel or Bio-diesel fuel	5.2 gal/hr (19.68 liters/hr)
Lubrication	0.52 gal/hr (1.96 liters/hr)
Grease	8 to 10 pumps every 20 minutes of operation time.

Optional Variable Throttle Control.



Drive Base Assembly.



STRIKER PLATE

Weight	1,036 lbs (470 kg)
Diameter	25 in (63.5 cm)
Area	491 in ² (3167.74 cm ²)
Thickness	8 in (20.32 cm)

CUSHION MATERIAL

Type/Qty	Micarta / 2 each
Diameter	25 in (63.5 cm)
Thickness	1 in (25.4 mm)
Type/Qty	Aluminum / 3 each
Thickness	1/2 in (12.7 mm)
Diameter	25 in (63.5 cm)
Total Combined Thickness	3.5 in (8.89 cm)
Area	491 in ² (3167.74 cm ²)
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	374 in (949.96 cm)



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