

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)	124,582 ft-lbs (168,908 Nm)
Setting 3	103,403 ft-lbs (140,194 Nm)
Setting 2	82,224 ft-lbs (111,479 Nm)
Minimum rated energy (Setting 1)	61,045 ft-lbs (82,765 Nm)
<i>(Variable throttle allows for lower minimum energy and infinite fuel settings.)</i>	

Maximum obtainable stroke	157 in (381 cm)
Maximum obtainable energy	144,243 ft-lbs (195,565 Nm)
Speed (blows per minute)	34-53

WEIGHTS

Ram	15,435 lbs (7,000 kg)
Anvil	2,425 lbs (1,100 kg)
Anvil cross sectional area	367.94 sq in (934.56 sq-cm)
Hammer weight (includes trip device)	30,864 lbs (14,000 kg)
Typical operating (weight with DB26 and L pipe insert)	36,164 lbs (16,404 kg)

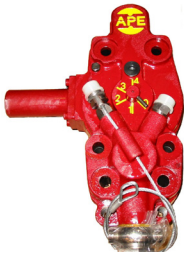
CAPACITIES:

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	.52 gal/hr (1.96 liters/hr)
Grease	8 to 10 pumps every 45 minutes of operation time.

Optional Variable Throttle Control.



Drive Base Assembly.



STRIKER PLATE

Weight	1,036 lbs (470 kg)
Diameter	25 in (57.15 cm)
Area	471 sq-in (696 sq-cm)
Thickness	8inches(20.32cm)

CUSHION MATERIAL

Type/Qty	Micarta/2 ea
Diameter	25 in (57.15 cm)
Thickness	1in (25.4 mm)
Type/Qty	Aluminum/3 ea
Thickness	1/2 in (12.7 mm)
Diameter	25 in (57.15 cm)
Total Combined Thickness	3.5 inches (8.89 cm)
Area	490 in (1,246 cm)
Elastic-modulus	285 ksi (1,965 mpa)
Coeff. of restitution	.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 (9.5 m)



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