

# APE Model D46-52 Single Acting Impact Hammer

*D46-52 in a stand-off.*



## MODEL D46-52 (4.6 metric ton ram)

### SPECIFICATIONS

Stroke at maximum rated energy	135 in (343 cm)
Maximum rated energy (Setting 4)	114,109 ft-lbs (154.05 kNm)
Setting 3	94,710 ft-lbs (127.86 kNm)
Setting 2	75,312 ft-lbs (101.67 kNm)
Minimum rated energy (Setting 1)	55,913 ft-lbs (75.48 kNm)

*(Variable throttle allows for infinite fuel settings)*

Maximum obtainable stroke	157 in (381 cm)
Maximum obtainable energy	132,704 ft-lbs (180 kNm)
Speed (blows per minute)	34-53

### WEIGHTS (Approximate)

Ram	10,143 lbs (4,600 kg)
Anvil	2,255 lbs (1,023 kg)
Anvil cross sectional area	367.94 in <sup>2</sup> (2373.80 cm <sup>2</sup> )
Hammer weight (includes trip device)	25,000 lbs (11,337 kg)
Typical operating (weight with DB32 and pipe insert)	30,302 lbs (13,742 kg)

### CAPACITIES

Fuel tank (runs on diesel or bio-diesel)	23.1 gal (89 liters)
Oil tank	4.4 gal (17 liters)

### CONSUMPTION

Diesel or Bio-diesel fuel	4.16 gal/hr (15.75 liters/hr)
Lubrication	0.39 gal/hr (1.48 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 <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 (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 <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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