APE Model D50-42 Single Acting Diesel Impact Hammer

D50-42 in a stand-off.



MODEL D50-42 (5.0 metric ton ram)

SPECIFICATIONS

 Stroke at maximum rated energy
 135 in (343 cm)

 Maximum rated energy (Setting 4)
 124,031 ft-lbs (167.44 kNm)

 Setting 3
 102,946 ft-lbs (138.98 kNm)

 Setting 2
 81,861 ft-lbs (110.51 kNm)

 Minimum rated energy (Setting 1)
 60,775 ft-lbs (82.05 kNm)

(Variable throttle allows for infinite fuel settings)

Maximum obtainable stroke 150 in (381 cm)
Maximum obtainable energy 144,243 ft-lbs (196 kNm)
Speed (blows per minute) 34-53

WEIGHTS (Approximate)

 Ram
 11,025 lbs (5,000 kg)

 Anvil
 2,255 lbs (1,023 kg)

 Anvil cross sectional area
 367.94 in² (2373.80 cm²)

 Hammer weight (includes trip device)
 25,882 lbs (11,737 kg)

 Typical operating (weight with DB32 and pipe insert)
 31,184 lbs (14,142 kg)

CAPACITIES

Fuel tank (runs on diesel or bio-diesel)

23.1 gal (87.4 liters)
Oil tank

4.4 gal (16.65 liters)

CONSUMPTION

Diesel or Bio-diesel fuel 4.16 gal/hr (16 liters/hr)
Lubrication 0.39 gal/hr (1.47 liters/hr)
Grease 8 to 10 pumps every 20 minutes of operation time.

Optional Variable Throttle Control.



Drive Base Assembly.



Corporate Offices 7032 South 196th Kent, Washington 98032 USA

(800) 248-8498 & (253) 872-0141 (253) 872-8710 Fax

STRIKER PLATE

 Weight
 1,036 lbs (470 kg)

 Diameter
 25 in (63.5 cm)

 Area
 491 in² (3167.74 cm²)

 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) 491 in²

 Area
 (3167.74 cm²)

 Elastic-modulus
 285 ksi (1,965 mpa)

 Coeff. of restitution
 0.8

DRIVE CAP

DB 32: 2,436 lbs (1,104 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 BOX LEAD SIZE/OPERATING LENGTH

 $\begin{array}{ll} \mbox{Minimum box leader size} & 8 \mbox{ in x } 32 \mbox{ in } (20.32 \mbox{ cm x } 81.28 \mbox{ cm}) \\ \mbox{Operating length as described above} & 354 \mbox{ in } (900 \mbox{ cm}) \end{array}$

Visit our WEB site: www.apevibro.com e-mail: ape@apevibro.com

