APE Model D19-52 Single Acting Diesel Impact Hammer

MODEL D19-52 (1.9 metric ton ram)

SPECIFICATIONS
Stroke at maximum rated energy 135 in (343 cm)
Maximum rated energy (Setting 4) 47,132 ft-lbs (63.63 kNm)
Setting 3 39,119 ft-lbs (52.81 kNm)
Setting 2 31,107 ft-lbs (41.99 kNm)
Minimum rated energy (Setting 1) 23,566 ft-lbs (31.81 kNm)

(Variable throttle allows for infinite fuel settings)

Maximum obtainable stroke 150 in (381 cm)
Maximum obtainable energy 52,362 ft-lbs (71 kNm)
Speed (blows per minute) 34-52

WEIGHTS (Approximate)
Piston 4,189 lbs (1,900 kg)
Anvil 749 lbs (340 kg)
Anvil cross sectional area 124.42 in² (802.71 cm²)
Hammer weight (includes trip device) 10,500 lbs (4,763 kg)
Typical operating (weight with DB26 and H-beam insert) 13,152 lbs (5,966 kg)

CAPACITIES
Fuel tank (runs on diesel or bio-diesel) 8.3 gal (31.41 liters)
Oil tank 2.3 gal (8.7 liters)

CONSUMPTION
Fuel or Bio-diesel fuel 1.3 gal/hr (6.6 liters/hr)
Lubrication 0.13 gal/hr (.49 liters/hr)
Grease 8 to 10 pumps every 20 minutes of operation time.

STRIKER PLATE FOR DB 26
Weight 628 lbs (284 kg)
Diameter 22.5 in (57.15 cm)
Area 398 in² (2567.74 cm²)
Thickness 6 in (15.24 cm)

STRIKER PLATE FOR DB 20
Weight 440 lbs (199 kg)
Diameter 17.75 in (45.08 cm)
Area 247 in² (1593.55 cm²)
Thickness 6 in (15.24 cm)

CUSHION MATERIAL
Type Monocast MC 904
Diameter-DB26 22.5 in (57.15 cm)
Diameter-DB20 17.75 in (45.08 cm)
Thickness 2 in (5.08 cm)
Elastic-modulus 285 ksi (1,965 mpa)
Coeff. of restitution 0.8

DRIVE CAP
DB 26: 1,076 lbs (488 kg)
DB 20: 750 lbs (340 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
Minimum box leader size 8 in x 21 in (20.32 cm x 53.34 cm)
Operating length w/ base and insert 348 in (883.92 cm)

Note: All specifications are subject to change without notice 08/20/2012