

# APE Model D19-42 Single Acting Diesel Impact Hammer

*D19-42 driving H-beam.*



## MODEL D19-42 (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)
<i>(Variable throttle allows for infinite fuel settings)</i>	

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

### WEIGHTS (Approximate)

Ram	4,189 lbs (1900 kg)
Anvil	749 lbs (340 kg)
Anvil cross sectional area	124.42 in <sup>2</sup> (802.71 cm <sup>2</sup> )
Hammer weight (includes trip device)	8,400 lbs (3,810 kg)
Typical operating (weight with DB26 and H-beam insert)	11,052 lbs (5,013 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

Diesel 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.

*Optional Variable Throttle.*



### STRIKER PLATE FOR DB 26

Weight	628 lbs (284 kg)
Diameter	22.5 in (57.15 cm)
Area	398 in <sup>2</sup> (2567.74 cm <sup>2</sup> )
Thickness	6 in (15.24 cm)

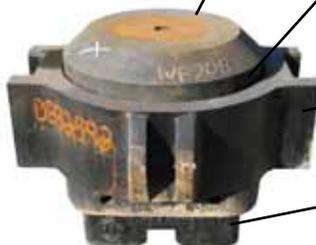
### STRIKER PLATE FOR DB 20

Weight	440 lbs (199 kg)
Diameter	17.75 in (45.08 cm)
Area	247 in <sup>2</sup> (1593.55 cm <sup>2</sup> )
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 Base Assembly.*



### 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)



Corporate Offices  
7032 South 196th  
Kent, Washington 98032 USA  
(800) 248-8498 & (253) 872-0141  
(253) 872-8710 Fax

Visit our WEB site:  
[www.apevibro.com](http://www.apevibro.com)  
e-mail: [ape@apevibro.com](mailto:ape@apevibro.com)