

APE Model D19-52 Single Acting Diesel Impact Hammer

D19-52 driving H-beam.



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) |
| <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)

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|--|--|
| Piston | 4,189 lbs (1,900 kg) |
| Anvil | 749 lbs (340 kg) |
| Anvil cross sectional area | 124.42 in ² (802.71 cm ²) |
| 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

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

CONSUMPTION

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|---------------------------|---|
| 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 ² (2567.74 cm ²) |
| 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 ² (1593.55 cm ²) |
| 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) |



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