

# BERMINGHAMMER

FOUNDATION EQUIPMENT

## Model B-5505



### Features

- Remote Throttle - infinitely controllable energy
- Clean Combustion- Low Emissions
- Fuel injection
- Easy Start in soft driving
- Available with hydraulic trip
- Free-standing operation
- Specialty driving adapters
- Optional Kinetic Energy Monitor
- Optional Energy Control System (patented)
- Environmentally friendly (no-drip operation, bio-fuels and oils)

### Operational Specifications

|  |  |
|--|--|
| Ram Mass:                                      | 9,200 lbs (4 180 kg)   |
| Rated Energy:                                  | 105,900 ft•lbs (146 kJ)  |
| Stroke at Rated Energy:                        | 11.5 ft (3.5 m)<br>35 blows per minute                           |
| Maximum Physical Stroke:                       | 13.0 ft (4.0 m)  |
| Range of Operation:                            | 4.5-11.5 ft (1.4-3.5 m)<br>56-35 blows per minute                |
| Kinetic Energy at Rated Stroke:                | 66,000 ft-lbs (89 kJ)  |
| Hammer Weight - bare hammer:                   | 21,300 lbs (9 680 kg)  |
| Weight with Typical USA-Style Box Lead Guides: | 21,750 lbs (9 890 kg)<br>32 in (813 mm) guides                   |
| Typical Direct-Drive Housing:                  | 1,850 lbs (840 kg)<br>24.5 in (620 mm) opening                   |
| Total Typical Operating Weight:                | 23,600 lbs (10 730 kg)<br>(with guides, trip, and drive housing) |
| Fuel Tank Capacity:                            | 37.0 US Gal. (140 L)   |
| Oil Tank Capacity:                             | 8.7 US Gal. (33 L)   |
| Overall Length:                                | 19.2 ft (5.8 m)  |
| Length including Direct-Drive Housing:         | 21.6 ft (6.6 m)  |
| Minimum Box Lead size:                         | 32 in (813 mm)   |





English Units

| <b>B-5505</b> |             | <b>9,200 lb Piston</b>   |                 |
|---------------|-------------|--------------------------|-----------------|
| BPM           | Stroke (ft) | Potential Energy (ft•lb) | Velocity (ft/s) |
| 35            | 11.8        | 108,560                  | 22.5            |
| 36            | 11.2        | 103,040                  | 22.0            |
| 37            | 10.6        | 97,520                   | 21.5            |
| 38            | 10.0        | 92,000                   | 21.0            |
| 39            | 9.5         | 87,400                   | 20.5            |
| 40            | 9.1         | 83,720                   | 20.0            |
| 41            | 8.6         | 79,120                   | 19.5            |
| 42            | 8.2         | 75,440                   | 19.0            |
| 43            | 7.8         | 71,760                   | 18.5            |
| 44            | 7.5         | 69,000                   | 18.0            |
| 45            | 7.2         | 66,240                   | 17.5            |
| 46            | 6.9         | 63,480                   | 17.0            |
| 47            | 6.6         | 60,720                   | 16.5            |
| 48            | 6.3         | 57,960                   | 16.0            |
| 49            | 6.0         | 55,200                   | 15.5            |
| 50            | 5.8         | 53,360                   | 15.0            |
| 51            | 5.6         | 51,520                   | 14.6            |
| 52            | 5.4         | 49,680                   | 14.2            |
| 53            | 5.2         | 47,840                   | 13.8            |
| 54            | 5.0         | 46,000                   | 13.4            |
| 55            | 4.8         | 44,160                   | 13.0            |
| 56            | 4.6         | 42,320                   | 12.6            |

SI Units

| <b>B-5505</b> |            | <b>4 200 kg Piston</b> |                |
|---------------|------------|------------------------|----------------|
| BPM           | Stroke (m) | Potential Energy (kJ)  | Velocity (m/s) |
| 35            | 3.60       | 148                    | 6.9            |
| 36            | 3.41       | 140                    | 6.7            |
| 37            | 3.23       | 133                    | 6.6            |
| 38            | 3.05       | 126                    | 6.4            |
| 39            | 2.90       | 119                    | 6.3            |
| 40            | 2.77       | 114                    | 6.1            |
| 41            | 2.62       | 108                    | 5.9            |
| 42            | 2.50       | 103                    | 5.8            |
| 43            | 2.38       | 98.1                   | 5.6            |
| 44            | 2.29       | 94.4                   | 5.5            |
| 45            | 2.20       | 90.6                   | 5.3            |
| 46            | 2.10       | 86.5                   | 5.2            |
| 47            | 2.01       | 82.8                   | 5.0            |
| 48            | 1.92       | 79.1                   | 4.9            |
| 49            | 1.83       | 75.4                   | 4.7            |
| 50            | 1.77       | 72.9                   | 4.6            |
| 51            | 1.71       | 70.5                   | 4.5            |
| 52            | 1.65       | 68.0                   | 4.3            |
| 53            | 1.59       | 65.5                   | 4.2            |
| 54            | 1.52       | 62.6                   | 4.1            |
| 55            | 1.46       | 60.2                   | 4.0            |
| 56            | 1.40       | 57.7                   | 3.8            |

 Stroke height is a function of soil resistance and may not be attainable in certain driving conditions.  
 Standard Operating Range.