

BERMINGHAMMER

FOUNDATION EQUIPMENT

Model B-21



Clean Series 2004

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:	4,630 lbs (2 100 kg)
Rated Energy:	53,200 ft•lbs (72 kJ)
Stroke at Rated Energy:	11.5 ft (3.5 m) 35 blows per minute
Maximum Physical Stroke:	13.1 ft (4.0 m)
Range of Operation:	4.5-11.5 ft (1.4-3.5 m) 56-35 blows per minute
Kinetic Energy at Rated Stroke:	32,010 ft•lbs (43.4 kJ)
Hammer Weight - bare hammer:	9,300 lbs (4 220 kg)
Weight with Typical USA-Style Box Lead Guides:	9,800 lbs (4 450 kg) 26 in (660 mm) guides
Typical Direct-Drive Housing:	1,850 lbs (840 kg) 21 in (530 mm) opening
Total Typical Operating Weight:	11,650 lbs (5 280 kg) (with guides, trip, and drive housing)
Fuel Tank Capacity:	12.0 US Gal. (45 L)
Oil Tank Capacity:	4.0 US Gal. (15 L)
Overall Length:	17.5 ft (5.3 m)
Length including Direct-Drive Housing:	19.8 ft (6.0 m)
Minimum Box Lead size:	21 in (533 mm)



English Units

B-21 4,630 lb Piston			
BPM	Stroke (ft)	Potential Energy (ft•lb)	Velocity (ft/s)
35	11.8	54,630	22.5
36	11.2	51,860	22.0
37	10.6	49,080	21.5
38	10.0	46,300	21.0
39	9.5	43,990	20.5
40	9.1	42,130	20.0
41	8.6	39,820	19.5
42	8.2	37,970	19.0
43	7.8	36,110	18.5
44	7.5	34,730	18.0
45	7.2	33,340	17.5
46	6.9	31,950	17.0
47	6.6	30,560	16.5
48	6.3	29,170	16.0
49	6.0	27,780	15.5
50	5.8	26,850	15.0
51	5.6	25,930	14.6
52	5.4	25,000	14.2
53	5.2	24,080	13.8
54	5.0	23,150	13.4
55	4.8	22,220	13.0
56	4.6	21,300	12.6

SI Units

B-21 2 100 kg Piston			
BPM	Stroke (m)	Potential Energy (kJ)	Velocity (m/s)
35	3.60	74.2	6.9
36	3.41	70.2	6.7
37	3.23	66.5	6.6
38	3.05	62.8	6.4
39	2.90	59.7	6.3
40	2.77	57.1	6.1
41	2.62	54.0	5.9
42	2.50	51.5	5.8
43	2.38	49.0	5.6
44	2.29	47.2	5.5
45	2.20	45.3	5.3
46	2.10	43.3	5.2
47	2.01	41.4	5.0
48	1.92	39.6	4.9
49	1.83	37.7	4.7
50	1.77	36.5	4.6
51	1.71	35.2	4.5
52	1.65	34.0	4.3
53	1.59	32.8	4.2
54	1.52	31.3	4.1
55	1.46	30.1	4.0
56	1.40	28.8	3.8

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