

# Birmingham

FOUNDATION EQUIPMENT

## Model B-6505



### 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:	17,640 lbs (8 000 kg)
Rated Energy:	202,900 ft•lbs (275 kJ)
Stroke at Rated Energy:	11.5 ft (3.5 m) 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) 56-35 blows per minute
Kinetic Energy at Rated Stroke:	130,000 ft•lbs (176 kJ)
Hammer Weight - bare hammer:	37,000 lbs (16 820 kg)
Weight with Typical USA-Style Box Lead Guides:	37,650 lbs (17 110 kg) 37 in (940 mm) guides
Typical Direct-Drive Housing:	2,600 lbs (1 180 kg) 30.0 in (762 mm) opening
Total Typical Operating Weight:	40,250 lbs (18 270 kg) (with guides, trip, and drive housing)
Fuel Tank Capacity:	45.0 US Gal. (170 L)
Oil Tank Capacity:	9.5 US Gal. (36 L)
Overall Length:	20.5 ft (6.3 m)
Length including Direct-Drive Housing:	23.0 ft (7.0 m)
Minimum Box Lead size:	37 in (940 mm)



**BERMINGHAM**

**FOUNDATION SOLUTIONS  
SINCE 1897**



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## English Units

<b>B-6505</b>		<b>17,640 lb Piston</b>	
BPM	Stroke (ft)	Potential Energy (ft•lb)	Velocity (ft/s)
35	11.8	208,150	22.5
36	11.2	197,570	22.0
37	10.6	186,980	21.5
38	10.0	176,400	21.0
39	9.5	167,580	20.5
40	9.1	160,520	20.0
41	8.6	151,700	19.5
42	8.2	144,650	19.0
43	7.8	137,590	18.5
44	7.5	132,300	18.0
45	7.2	127,010	17.5
46	6.9	121,720	17.0
47	6.6	116,420	16.5
48	6.3	111,130	16.0
49	6.0	105,840	15.5
50	5.8	102,310	15.0
51	5.6	98,780	14.6
52	5.4	95,260	14.2
53	5.2	91,730	13.8
54	5.0	88,200	13.4
55	4.8	84,670	13.0
56	4.6	81,140	12.6

## SI Units

<b>B-6505</b>		<b>8 000 kg Piston</b>	
BPM	Stroke (m)	Potential Energy (kJ)	Velocity (m/s)
35	3.60	283	6.9
36	3.41	268	6.7
37	3.23	253	6.6
38	3.05	239	6.4
39	2.90	228	6.3
40	2.77	217	6.1
41	2.62	206	5.9
42	2.50	196	5.8
43	2.38	187	5.6
44	2.29	180	5.5
45	2.20	173	5.3
46	2.10	165	5.2
47	2.01	158	5.0
48	1.92	151	4.9
49	1.83	144	4.7
50	1.77	139	4.6
51	1.71	134	4.5
52	1.65	129	4.3
53	1.59	125	4.2
54	1.52	119	4.1
55	1.46	115	4.0
56	1.40	110	3.8

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