

## Berminghammer Impact Hammer Specifications

English Units

			<b>B-9</b>	<b>B-21</b>	<b>B-32</b>	<b>B-5505</b>	<b>B-64</b>	<b>B-6505</b>	<b>B-6505HD</b>
	<b>Ram Mass</b>	lbs	2,000	4,630	7,050	9,200	14,110	17,640	22,050
Performance	Rated Energy	ft-lbs	21,000	53,200	81,080	105,900	162,260	202,900	220,500
	Kinetic (Impact) Energy*	ft-lbs	13,650	32,010	50,040	66,000	105,000	130,000	152,150
	Stroke at Rated Energy	ft	10.5	11.5	11.5	11.5	11.5	11.5	10
	Stroke Range	ft	5.0-10.5	4.5-11.5	4.5-11.5	4.5-11.5	4.5-11.5	4.5-11.5	4.5-11.5
	Blow per Minute at Rated Energy	min-1	37	35	35	35	35	35	38
	Range of Blow-Rates	min-1	54-37	56-35	56-35	56-35	56-35	56-35	56-38
Operational Parameters	Weight of Bare Hammer	lbs	4,630	9,300	14,110	21,300	28,000	37,000	42,210
	Hammer with Typical Box Lead Guides	lbs	4,850	9,800	14,570	21,750	29,000	37,650	42,860
	Weight of Typical Direct Drive Housing	lbs	950	1,850	1,850	1,850	2,350	2,600	2,600
	Total Typical Operating Weight	lbs	5,800	11,650	16,420	23,600	31,350	40,250	45,460
	Fuel Tank Capacity	Gal	15.0	12.0	19.0	37.0	40.0	45.0	45.0
	Oil Tank Capacity	Gal	1.5	4.0	6.5	8.7	13.0	9.5	9.5
	Overall Hammer Length	ft	18.0	17.5	20.1	19.2	24.3	20.5	20.5
	Overall Hammer Length including Direct Drive	ft	19.4	19.8	21.7	21.6	26.4	23.0	23.0
	Minimum Box Lead (U-Lead) size	in	19	21	26	32	32	37	37

SI Units

			<b>B-9</b>	<b>B-21</b>	<b>B-32</b>	<b>B-5505</b>	<b>B-64</b>	<b>B-6505</b>	<b>B-6505HD</b>
	<b>Ram Mass</b>	kg	900	2 100	3 200	4 200	6 400	8 000	10 000
Performance	Rated Energy	kJ	28.4	72.0	110	146	220	275	300
	Kinetic (Impact) Energy*	kJ	18.5	43.4	67.8	89.0	142	176	206
	Stroke at Rated Energy	m	3.2	3.5	3.5	3.5	3.5	3.5	3
	Stroke Range	m	1.5-3.5	1.4-3.5	1.4-3.5	1.4-3.5	1.4-3.5	1.4-3.5	1.4-3.0
	Blow per Minute at Rated Energy	min-1	37	35	35	35	35	35	38
	Range of Blow-Rates	min-1	54-37	56-35	56-35	56-35	56-35	56-35	56-38
Physical Parameters	Weight of Bare Hammer	kg	2 100	4 220	6 400	9 680	12 700	16 820	19 190
	Hammer with Typical Box Lead Guides	kg	2 200	4 450	6 610	9 890	13 150	17 110	19 480
	Weight of Typical Direct Drive Housing	kg	430	840	840	840	1 070	1 180	1 180
	Total Typical Operating Weight	kg	2 630	5 280	7 450	10 730	14 220	18 270	20 660
	Fuel Tank Capacity	L	57.0	45.0	72.0	140.0	150.0	170.0	170.0
	Oil Tank Capacity	L	6.0	15.0	14.0	33.0	50.0	36.0	36.0
	Overall Hammer Length	m	5.5	5.3	6.1	5.8	7.4	6.3	6.3
	Overall Hammer Length including Direct Drive	m	5.9	6.0	6.6	6.6	8.0	7.0	7.0
	Minimum Box Lead (U-Lead) size	mm	483	533	660	813	813	940	940

**Performance Note:** Hammer performance is dependant on driving conditions. All stroke ranges are not attainable in all driving conditions.

\* Kinetic (Impact) Energy is determined by the formula  $\frac{1}{2}mv^2$  where 'm' is the ram mass and 'v' is the velocity of the ram just prior to impact. The Kinetic Energy of a hammer can be measured using the Bermingham Pile Driving Monitor (PDM).