



(800) 248-8498

Diesel Hammer Energy Output and Pile Bearing Chart APE Model D12

The energy output is based on the identical Piston/Travel calculations utilized in the *Pile Driving Analyzer* and the *Saximeter*.

The pile bearing chart is based on the Engineering News formula for pile bearing and is provided for the user's convenience only.

$$\text{Pile Bearing (tons)} = 2E/(S+.1)/2000, \text{ where } E = \text{Hammer energy (ft-lbs)} \text{ and } S = \text{Pile set (inches per blow)}$$

Ram Weight(lbs): 2,830

APE has no preference for these particular formulas and calculations over any other.

Blows per Minute	Stroke (feet)	Energy (ft-lbs)	Pile Set (Blows per inch)																		
			<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>
60	4.00	11,320	19	26	32	38	42	47	50	54	57	59	62	64	66	68	70	71	73	74	75
59	4.17	11,801	20	27	34	39	44	49	52	56	59	62	64	67	69	71	73	74	76	77	79
58	4.33	12,254	20	28	35	41	46	50	54	58	61	64	67	69	71	74	75	77	79	80	82
57	4.50	12,735	21	29	36	42	48	52	57	60	64	67	69	72	74	76	78	80	82	83	85
56	4.67	13,216	22	30	38	44	50	54	59	63	66	69	72	75	77	79	81	83	85	87	88
55	4.83	13,669	23	32	39	46	51	56	61	65	68	72	75	77	80	82	84	86	88	90	91
54	5.00	14,150	24	33	40	47	53	58	63	67	71	74	77	80	83	85	87	89	91	93	94
53	5.17	14,631	24	34	42	49	55	60	65	69	73	77	80	83	85	88	90	92	94	96	98
52	5.33	15,084	25	35	43	50	57	62	67	71	75	79	82	85	88	91	93	95	97	99	101
51	5.50	15,565	26	36	44	52	58	64	69	74	78	82	85	88	91	93	96	98	100	102	104
50	5.75	16,273	27	38	46	54	61	67	72	77	81	85	89	92	95	98	100	102	105	107	108
49	6.00	16,980	28	39	49	57	64	70	75	80	85	89	93	96	99	102	104	107	109	111	113
48	6.25	17,688	29	41	51	59	66	73	79	84	88	93	96	100	103	106	109	111	114	116	118
47	6.50	18,395	31	42	53	61	69	76	82	87	92	96	100	104	107	110	113	116	118	121	123
46	6.83	19,329	32	45	55	64	72	80	86	92	97	101	105	109	113	116	119	122	124	127	129
45	7.17	20,291	34	47	58	68	76	84	90	96	101	106	111	115	118	122	125	128	130	133	135
44	7.50	21,225	35	49	61	71	80	87	94	101	106	111	116	120	124	127	131	134	136	139	142
43	7.83	22,159	37	51	63	74	83	91	98	105	111	116	121	125	129	133	136	140	142	145	148
42	8.17	23,121	39	53	66	77	87	95	103	110	116	121	126	131	135	139	142	146	149	151	154
41	8.58	24,281	40	56	69	81	91	100	108	115	121	127	132	137	142	146	149	153	156	159	162
40	9.00	25,470	42	59	73	85	96	105	113	121	127	133	139	144	149	153	157	160	164	167	170
39	9.50	26,885	45	62	77	90	101	111	119	127	134	141	147	152	157	161	165	169	173	176	179
38	10.00	28,300	47	65	81	94	106	117	126	134	142	148	154	160	165	170	174	178	182	185	189
37	10.50	29,715	50	69	85	99	111	122	132	141	149	156	162	168	173	178	183	187	191	195	198
36	11.17	31,611	53	73	90	105	119	130	140	150	158	166	172	179	184	190	195	199	203	207	211

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