



(800) 248-8498

Diesel Hammer Energy Output and Pile Bearing Chart APE Model D8-22

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): 1,760

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

Blows per <u>Minute</u>	Stroke <u>(feet)</u>	Energy <u>(ft-lbs)</u>	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>
52	5.33	9,381	16	22	27	31	35	39	42	44	47	49	51	53	55	56	58	59	60	61	63
51	5.50	9,680	16	22	28	32	36	40	43	46	48	51	53	55	56	58	60	61	62	63	65
50	5.75	10,120	17	23	29	34	38	42	45	48	51	53	55	57	59	61	62	64	65	66	67
49	6.00	10,560	18	24	30	35	40	43	47	50	53	55	58	60	62	63	65	66	68	69	70
48	6.25	11,000	18	25	31	37	41	45	49	52	55	58	60	62	64	66	68	69	71	72	73
47	6.50	11,440	19	26	33	38	43	47	51	54	57	60	62	65	67	69	70	72	74	75	76
46	6.83	12,021	20	28	34	40	45	49	53	57	60	63	66	68	70	72	74	76	77	79	80
45	7.17	12,619	21	29	36	42	47	52	56	60	63	66	69	71	74	76	78	79	81	83	84
44	7.50	13,200	22	30	38	44	50	54	59	63	66	69	72	75	77	79	81	83	85	86	88
43	7.83	13,781	23	32	39	46	52	57	61	65	69	72	75	78	80	83	85	87	89	90	92
42	8.17	14,379	24	33	41	48	54	59	64	68	72	75	78	81	84	86	88	91	92	94	96
41	8.58	15,101	25	35	43	50	57	62	67	72	76	79	82	85	88	91	93	95	97	99	101
40	9.00	15,840	26	37	45	53	59	65	70	75	79	83	86	90	92	95	97	100	102	104	106
39	9.50	16,720	28	39	48	56	63	69	74	79	84	88	91	95	98	100	103	105	107	110	111
38	10.00	17,600	29	41	50	59	66	72	78	83	88	92	96	99	103	106	108	111	113	115	117