



**(800) 248-8498**

## Diesel Hammer Energy Output and Pile Bearing Chart APE Model D1-42

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): 308

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>
80	2.3	696	1	2	2	2	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5
78	2.4	733	1	2	2	2	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5
76	2.5	772	1	2	2	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	5
74	2.6	814	1	2	2	3	3	3	4	4	4	4	4	5	5	5	5	5	5	5	5
72	2.8	860	1	2	2	3	3	4	4	4	4	5	5	5	5	5	5	5	6	6	6
70	3.0	910	2	2	3	3	3	4	4	4	5	5	5	5	5	5	6	6	6	6	6
68	3.1	964	2	2	3	3	4	4	4	5	5	5	5	5	6	6	6	6	6	6	6
66	3.3	1,023	2	2	3	3	4	4	5	5	5	5	6	6	6	6	6	6	7	7	7
64	3.5	1,088	2	3	3	4	4	4	5	5	5	6	6	6	6	7	7	7	7	7	7
62	3.8	1,160	2	3	3	4	4	5	5	5	6	6	6	7	7	7	7	7	7	8	8
60	4.0	1,238	2	3	4	4	5	5	6	6	6	6	7	7	7	7	8	8	8	8	8
58	4.3	1,325	2	3	4	4	5	5	6	6	7	7	7	7	8	8	8	8	9	9	9
56	4.6	1,421	2	3	4	5	5	6	6	7	7	7	8	8	8	9	9	9	9	9	9
54	5.0	1,529	3	4	4	5	6	6	7	7	8	8	8	9	9	9	9	10	10	10	10
52	5.4	1,648	3	4	5	5	6	7	7	8	8	9	9	9	10	10	10	10	11	11	11
50	5.8	1,783	3	4	5	6	7	7	8	8	9	9	10	10	10	11	11	11	11	12	12
48	6.3	1,935	3	4	6	6	7	8	9	9	10	10	11	11	11	12	12	12	12	13	13
46	6.8	2,107	4	5	6	7	8	9	9	10	11	11	11	12	12	13	13	13	14	14	14