



**(800) 248-8498**

## Diesel Hammer Energy Output and Pile Bearing Chart APE Model D70-42

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): 15,435

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	61,740	103	142	176	206	232	254	274	292	309	323	337	349	360	370	380	389	397	405	412
59	4.17	64,364	107	149	184	215	241	265	286	305	322	337	351	364	375	386	396	405	414	422	429
58	4.33	66,834	111	154	191	223	251	275	297	317	334	350	365	378	390	401	411	421	430	438	446
57	4.50	69,458	116	160	198	232	260	286	309	329	347	364	379	393	405	417	427	437	447	455	463
56	4.67	72,081	120	166	206	240	270	297	320	341	360	378	393	407	420	432	444	454	463	472	481
55	4.83	74,551	124	172	213	249	280	307	331	353	373	391	407	421	435	447	459	469	479	488	497
54	5.00	77,175	129	178	221	257	289	318	343	366	386	404	421	436	450	463	475	486	496	506	515
53	5.17	79,799	133	184	228	266	299	329	355	378	399	418	435	451	465	479	491	502	513	523	532
52	5.33	82,269	137	190	235	274	309	339	366	390	411	431	449	465	480	494	506	518	529	539	548
51	5.50	84,893	141	196	243	283	318	350	377	402	424	445	463	480	495	509	522	535	546	556	566
50	5.75	88,751	148	205	254	296	333	365	394	420	444	465	484	502	518	533	546	559	571	581	592
49	6.00	92,610	154	214	265	309	347	381	412	439	463	485	505	523	540	556	570	583	595	607	617