



(800) 248-8498

Diesel Hammer Energy Output and Pile Bearing Chart APE Model D62-42

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): 13,671

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>
60	4.00	54,684	91	126	156	182	205	225	243	259	273	286	298	309	319	328	337	344	352	358	365
59	4.17	57,008	95	132	163	190	214	235	253	270	285	299	311	322	333	342	351	359	366	374	380
58	4.33	59,195	99	137	169	197	222	244	263	280	296	310	323	335	345	355	364	373	381	388	395
57	4.50	61,520	103	142	176	205	231	253	273	291	308	322	336	348	359	369	379	387	395	403	410
56	4.67	63,844	106	147	182	213	239	263	284	302	319	334	348	361	372	383	393	402	410	418	426
55	4.83	66,031	110	152	189	220	248	272	293	313	330	346	360	373	385	396	406	416	424	433	440
54	5.00	68,355	114	158	195	228	256	281	304	324	342	358	373	386	399	410	421	430	439	448	456
53	5.17	70,679	118	163	202	236	265	291	314	335	353	370	386	399	412	424	435	445	454	463	471
52	5.33	72,866	121	168	208	243	273	300	324	345	364	382	397	412	425	437	448	459	468	477	486
51	5.50	75,191	125	174	215	251	282	310	334	356	376	394	410	425	439	451	463	473	483	493	501
50	5.75	78,608	131	181	225	262	295	324	349	372	393	412	429	444	459	472	484	495	505	515	524
49	6.00	82,026	137	189	234	273	308	338	365	389	410	430	447	464	478	492	505	516	527	537	547
48	6.25	85,444	142	197	244	285	320	352	380	405	427	448	466	483	498	513	526	538	549	560	570
47	6.50	88,862	148	205	254	296	333	366	395	421	444	465	485	502	518	533	547	559	571	582	592
46	6.83	93,373	156	215	267	311	350	384	415	442	467	489	509	528	545	560	575	588	600	612	622