



(800) 248-8498

Diesel Hammer Energy Output and Pile Bearing Chart

APE Model D36-32

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): 7,938

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)																		
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
60	4.00	31,752	53	73	91	106	119	131	141	150	159	166	173	179	185	191	195	200	204	208	212
59	4.17	33,101	55	76	95	110	124	136	147	157	166	173	181	187	193	199	204	208	213	217	221
58	4.33	34,372	57	79	98	115	129	142	153	163	172	180	187	194	201	206	212	216	221	225	229
57	4.50	35,721	60	82	102	119	134	147	159	169	179	187	195	202	208	214	220	225	230	234	238
56	4.67	37,070	62	86	106	124	139	153	165	176	185	194	202	210	216	222	228	233	238	243	247
55	4.83	38,341	64	88	110	128	144	158	170	182	192	201	209	217	224	230	236	241	246	251	256
54	5.00	39,690	66	92	113	132	149	163	176	188	198	208	216	224	232	238	244	250	255	260	265
53	5.17	41,039	68	95	117	137	154	169	182	194	205	215	224	232	239	246	253	258	264	269	274
52	5.33	42,310	71	98	121	141	159	174	188	200	212	222	231	239	247	254	260	266	272	277	282
51	5.50	43,659	73	101	125	146	164	180	194	207	218	229	238	247	255	262	269	275	281	286	291
50	5.75	45,644	76	105	130	152	171	188	203	216	228	239	249	258	266	274	281	287	293	299	304
49	6.00	47,628	79	110	136	159	179	196	212	226	238	249	260	269	278	286	293	300	306	312	318
48	6.25	49,613	83	114	142	165	186	204	221	235	248	260	271	280	289	298	305	312	319	325	331
47	6.50	51,597	86	119	147	172	193	212	229	244	258	270	281	292	301	310	318	325	332	338	344
46	6.83	54,217	90	125	155	181	203	223	241	257	271	284	296	306	316	325	334	341	349	355	361
45	7.17	56,915	95	131	163	190	213	234	253	270	285	298	310	322	332	341	350	358	366	373	379
44	7.50	59,535	99	137	170	198	223	245	265	282	298	312	325	337	347	357	366	375	383	390	397
43	7.83	62,155	104	143	178	207	233	256	276	294	311	326	339	351	363	373	382	391	400	407	414
42	8.17	64,853	108	150	185	216	243	267	288	307	324	340	354	367	378	389	399	408	417	425	432
41	8.58	68,108	114	157	195	227	255	280	303	323	341	357	371	385	397	409	419	429	438	446	454
40	9.00	71,442	119	165	204	238	268	294	318	338	357	374	390	404	417	429	440	450	459	468	476
39	9.50	75,411	126	174	215	251	283	311	335	357	377	395	411	426	440	452	464	475	485	494	503
38	10.00	79,380	132	183	227	265	298	327	353	376	397	416	433	449	463	476	488	500	510	520	529
37	10.50	83,349	139	192	238	278	313	343	370	395	417	437	455	471	486	500	513	525	536	546	556
36	11.17	88,667	148	205	253	296	333	365	394	420	443	464	484	501	517	532	546	558	570	581	591

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