



(800) 248-8498

Diesel Hammer Energy Output and Pile Bearing Chart APE Model D128-42

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): 28,224

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	112,896	188	261	323	376	423	465	502	535	564	591	616	638	659	677	695	711	726	740	753
59	4.17	117,694	196	272	336	392	441	485	523	557	588	616	642	665	687	706	724	741	757	771	785
58	4.33	122,210	204	282	349	407	458	503	543	579	611	640	667	691	713	733	752	769	786	801	815
57	4.50	127,008	212	293	363	423	476	523	564	602	635	665	693	718	741	762	782	800	816	832	847
56	4.67	131,806	220	304	377	439	494	543	586	624	659	690	719	745	769	791	811	830	847	864	879
55	4.83	136,322	227	315	389	454	511	561	606	646	682	714	744	771	795	818	839	858	876	893	909
54	5.00	141,120	235	326	403	470	529	581	627	668	706	739	770	798	823	847	868	889	907	925	941
53	5.17	145,918	243	337	417	486	547	601	649	691	730	764	796	825	851	876	898	919	938	956	973
52	5.33	150,434	251	347	430	501	564	619	669	713	752	788	821	850	878	903	926	947	967	986	1003
51	5.50	155,232	259	358	444	517	582	639	690	735	776	813	847	877	906	931	955	977	998	1017	1035
50	5.75	162,288	270	375	464	541	609	668	721	769	811	850	885	917	947	974	999	1022	1043	1063	1082
49	6.00	169,344	282	391	484	564	635	697	753	802	847	887	924	957	988	1016	1042	1066	1089	1109	1129
48	6.25	176,400	294	407	504	588	662	726	784	836	882	924	962	997	1029	1058	1086	1111	1134	1156	1176
47	6.50	183,456	306	423	524	612	688	755	815	869	917	961	1001	1037	1070	1101	1129	1155	1179	1202	1223
46	6.83	192,770	321	445	551	643	723	794	857	913	964	1010	1051	1090	1124	1157	1186	1214	1239	1263	1285
45	7.17	202,366	337	467	578	675	759	833	899	959	1012	1060	1104	1144	1180	1214	1245	1274	1301	1326	1349
44	7.50	211,680	353	488	605	706	794	872	941	1003	1058	1109	1155	1196	1235	1270	1303	1333	1361	1387	1411
43	7.83	220,994	368	510	631	737	829	910	982	1047	1105	1158	1205	1249	1289	1326	1360	1391	1421	1448	1473
42	8.17	230,590	384	532	659	769	865	949	1025	1092	1153	1208	1258	1303	1345	1384	1419	1452	1482	1511	1537
41	8.58	242,162	404	559	692	807	908	997	1076	1147	1211	1268	1321	1369	1413	1453	1490	1525	1557	1587	1614
40	9.00	254,016	423	586	726	847	953	1046	1129	1203	1270	1331	1386	1436	1482	1524	1563	1599	1633	1664	1693
39	9.50	268,128	447	619	766	894	1005	1104	1192	1270	1341	1404	1463	1516	1564	1609	1650	1688	1724	1757	1788
38	10.00	282,240	470	651	806	941	1058	1162	1254	1337	1411	1478	1539	1595	1646	1693	1737	1777	1814	1849	1882
37	10.50	296,352	494	684	847	988	1111	1220	1317	1404	1482	1552	1616	1675	1729	1778	1824	1866	1905	1942	1976
36	11.17	315,262	525	728	901	1051	1182	1298	1401	1493	1576	1651	1720	1782	1839	1892	1940	1985	2027	2066	2102
35	11.25	317,520	529	733	907	1058	1191	1307	1411	1504	1588	1663	1732	1795	1852	1905	1954	1999	2041	2080	2117