



(800) 248-8498

Diesel Hammer Energy Output and Pile Bearing Chart APE Model D125-42

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): 27,563

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	110,252	184	254	315	368	413	454	490	522	551	578	601	623	643	662	678	694	709	722	735
59	4.17	114,938	192	265	328	383	431	473	511	544	575	602	627	650	670	690	707	724	739	753	766
58	4.33	119,348	199	275	341	398	448	491	530	565	597	625	651	675	696	716	734	751	767	782	796
57	4.50	124,034	207	286	354	413	465	511	551	588	620	650	677	701	724	744	763	781	797	813	827
56	4.67	128,719	215	297	368	429	483	530	572	610	644	674	702	728	751	772	792	810	827	843	858
55	4.83	133,129	222	307	380	444	499	548	592	631	666	697	726	752	777	799	819	838	856	872	888
54	5.00	137,815	230	318	394	459	517	567	613	653	689	722	752	779	804	827	848	868	886	903	919
53	5.17	142,501	238	329	407	475	534	587	633	675	713	746	777	805	831	855	877	897	916	934	950
52	5.33	146,911	245	339	420	490	551	605	653	696	735	770	801	830	857	881	904	925	944	963	979
51	5.50	151,597	253	350	433	505	568	624	674	718	758	794	827	857	884	910	933	954	975	993	1011
50	5.75	158,487	264	366	453	528	594	653	704	751	792	830	864	896	925	951	975	998	1019	1038	1057
49	6.00	165,378	276	382	473	551	620	681	735	783	827	866	902	935	965	992	1018	1041	1063	1084	1103
48	6.25	172,269	287	398	492	574	646	709	766	816	861	902	940	974	1005	1034	1060	1085	1107	1129	1148
47	6.50	179,160	299	413	512	597	672	738	796	849	896	938	977	1013	1045	1075	1103	1128	1152	1174	1194
46	6.83	188,255	314	434	538	628	706	775	837	892	941	986	1027	1064	1098	1130	1158	1185	1210	1233	1255
45	7.17	197,627	329	456	565	659	741	814	878	936	988	1035	1078	1117	1153	1186	1216	1244	1270	1295	1318
44	7.50	206,723	345	477	591	689	775	851	919	979	1034	1083	1128	1168	1206	1240	1272	1302	1329	1354	1378
43	7.83	215,818	360	498	617	719	809	889	959	1022	1079	1130	1177	1220	1259	1295	1328	1359	1387	1414	1439
42	8.17	225,190	375	520	643	751	844	927	1001	1067	1126	1180	1228	1273	1314	1351	1386	1418	1448	1475	1501
41	8.58	236,491	394	546	676	788	887	974	1051	1120	1182	1239	1290	1337	1380	1419	1455	1489	1520	1549	1577
40	9.00	248,067	413	572	709	827	930	1021	1103	1175	1240	1299	1353	1402	1447	1488	1527	1562	1595	1625	1654
39	9.50	261,849	436	604	748	873	982	1078	1164	1240	1309	1372	1428	1480	1527	1571	1611	1649	1683	1716	1746
38	10.00	275,630	459	636	788	919	1034	1135	1225	1306	1378	1444	1503	1558	1608	1654	1696	1735	1772	1806	1838
37	10.50	289,412	482	668	827	965	1085	1192	1286	1371	1447	1516	1579	1636	1688	1736	1781	1822	1861	1896	1929
36	11.17	307,879	513	710	880	1026	1155	1268	1368	1458	1539	1613	1679	1740	1796	1847	1895	1938	1979	2017	2053
35	11.25	310,084	517	716	886	1034	1163	1277	1378	1469	1550	1624	1691	1753	1809	1861	1908	1952	1993	2032	2067