



(800) 248-8498

Ram
Weight(lbs): 23,612

Diesel Hammer Energy Output and Pile Bearing Chart APE Model D100-13

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.

Pile Bearing (tons) = $2E/(S+.1)/2000$, where E = Hammer energy (ft-lbs) and S = Pile set (inches per blow)

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
46	6.8	161,490	269	373	461	538	606	665	718	765	807	846	881	913	942	969	994	1017	1038	1058	1077
45	7.1	168,747	281	389	482	562	633	695	750	799	844	884	920	954	984	1012	1038	1062	1085	1106	1125
44	7.5	176,505	294	407	504	588	662	727	784	836	883	925	963	998	1030	1059	1086	1111	1135	1156	1177
43	7.8	184,810	308	426	528	616	693	761	821	875	924	968	1008	1045	1078	1109	1137	1164	1188	1211	1232
42	8.2	193,715	323	447	553	646	726	798	861	918	969	1015	1057	1095	1130	1162	1192	1220	1245	1269	1291
41	8.6	203,280	339	469	581	678	762	837	903	963	1016	1065	1109	1149	1186	1220	1251	1280	1307	1332	1355
40	9.0	213,571	356	493	610	712	801	879	949	1012	1068	1119	1165	1207	1246	1281	1314	1345	1373	1399	1424
39	9.5	224,663	374	518	642	749	842	925	999	1064	1123	1177	1225	1270	1311	1348	1383	1415	1444	1472	1498
38	10.0	236,643	394	546	676	789	887	974	1052	1121	1183	1240	1291	1338	1380	1420	1456	1490	1521	1550	1578
37	10.6	249,608	416	576	713	832	936	1028	1109	1182	1248	1307	1361	1411	1456	1498	1536	1572	1605	1635	1664
36	11.2	263,667	439	608	753	879	989	1086	1172	1249	1318	1381	1438	1490	1538	1582	1623	1660	1695	1727	1758
35	11.8	278,949	465	644	797	930	1046	1149	1240	1321	1395	1461	1522	1577	1627	1674	1717	1756	1793	1828	1860
34	12.2	288,066	480	665	823	960	1080	1186	1280	1365	1440	1509	1571	1628	1680	1728	1773	1814	1852	1887	1920
33	12.8	302,234	504	697	864	1007	1133	1244	1343	1432	1511	1583	1649	1708	1763	1813	1860	1903	1943	1980	2015

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