



(800) 248-8498

Diesel Hammer Energy Output and Pile Bearing Chart

APE Model D62 -42 or -52 Diesel Impact Hammer

The energy output is based on the identical Piston/Travel calculations utilized in the FHWA Gates Formula.
 The pile bearing chart is based on the FHWA Gates Formula for pile bearing and is provided for the user's convenience only.

$$\text{Pile Bearing (metric tons)} = (((1.75 * \text{SQRT "E" LOG}_{10} * 10N) - 100) / 2000) * 0.00045359237$$

E = Developed Energy and N = Number of Blows Per Inch

APE has no preference for these particular formulas and calculations over any other.

Enter Ram Weight in kgs: 6,200

Blows (per minute)	Stroke (m)	Energy (kNm)	Pile Set (Blows per cm)																		
			2.5	5.1	7.62	10	13	15	18	20	23	25	28	30	33	36	38	41	43	46	48
60	1.22	74.18	549	641	706	756	797	832	862	889	913	934	954	972	989	1004	1019	1032	1045	1058	1069
59	1.27	77.22	563	656	723	774	816	852	882	910	934	956	976	994	1011	1027	1042	1056	1069	1082	1093
58	1.32	80.26	577	672	739	792	835	871	902	930	954	977	997	1016	1033	1050	1065	1079	1093	1105	1117
57	1.37	83.30	590	687	756	809	853	889	921	950	975	998	1018	1038	1055	1072	1087	1102	1115	1128	1141
56	1.42	86.34	603	701	772	826	870	908	940	969	995	1018	1039	1059	1077	1093	1109	1124	1138	1151	1164
55	1.47	89.38	615	716	787	842	888	926	959	988	1014	1038	1059	1079	1098	1115	1131	1146	1160	1173	1186
54	1.52	92.42	628	730	803	859	905	944	977	1007	1034	1058	1079	1100	1118	1136	1152	1167	1182	1195	1208
53	1.58	96.07	643	747	821	878	925	965	999	1029	1056	1081	1103	1124	1143	1160	1177	1193	1207	1221	1234
52	1.62	98.50	652	758	833	891	938	978	1013	1044	1071	1096	1119	1139	1159	1177	1193	1209	1224	1238	1251
51	1.68	102.15	667	774	850	909	958	999	1034	1065	1093	1118	1141	1163	1182	1200	1218	1234	1249	1263	1277
50	1.75	106.40	683	793	870	931	980	1022	1058	1090	1118	1144	1168	1189	1209	1228	1245	1262	1277	1292	1306
49	1.83	111.27	701	813	893	955	1005	1048	1085	1117	1146	1173	1197	1219	1239	1258	1276	1293	1309	1324	1338
48	1.91	116.13	719	834	915	978	1030	1073	1111	1144	1174	1201	1225	1248	1269	1288	1307	1324	1340	1355	1370
47	1.98	120.39	735	851	934	998	1051	1095	1133	1167	1198	1225	1250	1273	1294	1314	1333	1350	1367	1382	1397
46	2.08	126.47	756	876	960	1026	1080	1125	1165	1200	1231	1259	1284	1308	1330	1350	1369	1387	1404	1420	1435
45	2.19	133.15	779	902	989	1056	1111	1158	1198	1234	1266	1295	1321	1345	1368	1389	1408	1427	1444	1460	1476
44	2.29	139.23	800	925	1014	1083	1139	1187	1228	1265	1297	1327	1354	1379	1402	1423	1443	1462	1479	1496	1512
43	2.39	145.31	820	948	1039	1109	1167	1216	1258	1295	1328	1358	1386	1411	1435	1456	1477	1496	1514	1531	1547
42	2.49	151.40	839	970	1063	1135	1194	1243	1286	1324	1358	1389	1417	1443	1467	1489	1510	1529	1548	1565	1582
41	2.62	159.30	864	998	1093	1167	1228	1279	1323	1362	1397	1428	1457	1483	1508	1531	1552	1572	1591	1609	1626
40	2.74	166.60	887	1024	1121	1197	1258	1310	1356	1395	1431	1463	1493	1520	1545	1568	1590	1611	1630	1648	1666
39	2.90	176.32	916	1057	1157	1235	1298	1352	1398	1439	1476	1509	1539	1567	1593	1617	1640	1661	1681	1699	1717
38	3.05	185.44	942	1087	1190	1269	1335	1390	1437	1479	1517	1551	1582	1611	1637	1662	1685	1706	1727	1746	1764
37	3.20	194.56	968	1117	1222	1303	1370	1426	1475	1518	1557	1592	1624	1653	1680	1705	1729	1751	1772	1792	1810
36	3.40	206.72	1002	1155	1263	1347	1416	1474	1525	1569	1609	1645	1677	1708	1735	1761	1786	1809	1830	1851	1870