



(800) 248-8498

Ram Weight(lbs): 30,429

Diesel Hammer Energy Output and Pile Bearing Chart APE Model D138-42

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.

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)																		
			<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>
50	5.8	176,147	294	406	503	587	661	725	783	834	881	923	961	996	1028	1057	1084	1109	1132	1154	1174
49	6.0	183,410	306	423	524	611	688	755	815	869	917	961	1000	1037	1070	1100	1129	1155	1179	1202	1223
48	6.3	191,132	319	441	546	637	717	787	849	905	956	1001	1043	1080	1115	1147	1176	1203	1229	1252	1274
47	6.6	199,352	332	460	570	665	748	821	886	944	997	1044	1087	1127	1163	1196	1227	1255	1282	1306	1329
46	6.8	208,114	347	480	595	694	780	857	925	986	1041	1090	1135	1176	1214	1249	1281	1310	1338	1364	1387
45	7.1	217,466	362	502	621	725	815	895	967	1030	1087	1139	1186	1229	1269	1305	1338	1369	1398	1425	1450
44	7.5	227,463	379	525	650	758	853	937	1011	1077	1137	1191	1241	1286	1327	1365	1400	1432	1462	1490	1516
43	7.8	238,166	397	550	680	794	893	981	1059	1128	1191	1248	1299	1346	1389	1429	1466	1500	1531	1560	1588
42	8.2	249,642	416	576	713	832	936	1028	1110	1183	1248	1308	1362	1411	1456	1498	1536	1572	1605	1636	1664
41	8.6	261,968	437	605	748	873	982	1079	1164	1241	1310	1372	1429	1481	1528	1572	1612	1649	1684	1716	1746
40	9.0	275,230	459	635	786	917	1032	1133	1223	1304	1376	1442	1501	1556	1606	1651	1694	1733	1769	1803	1835
39	9.5	289,526	483	668	827	965	1086	1192	1287	1371	1448	1517	1579	1636	1689	1737	1782	1823	1861	1897	1930
38	10.0	304,964	508	704	871	1017	1144	1256	1355	1445	1525	1597	1663	1724	1779	1830	1877	1920	1960	1998	2033
37	10.6	321,672	536	742	919	1072	1206	1325	1430	1524	1608	1685	1755	1818	1876	1930	1980	2025	2068	2108	2144
36	11.2	339,791	566	784	971	1133	1274	1399	1510	1610	1699	1780	1853	1921	1982	2039	2091	2139	2184	2226	2265
35	11.8	359,484	599	830	1027	1198	1348	1480	1598	1703	1797	1883	1961	2032	2097	2157	2212	2263	2311	2355	2397
34	12.5	380,942	635	879	1088	1270	1429	1569	1693	1804	1905	1995	2078	2153	2222	2286	2344	2399	2449	2496	2540