



(800) 248-8498

Ram Weight(lbs): 28,224

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.

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 <u>Minute</u>	Stroke <u>(feet)</u>	Energy <u>(ft-lbs)</u>	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	163,383	272	377	467	545	613	673	726	774	817	856	891	923	953	980	1005	1029	1050	1070	1089
49	6.0	170,120	284	393	486	567	638	700	756	806	851	891	928	962	992	1021	1047	1071	1094	1115	1134
48	6.3	177,282	295	409	507	591	665	730	788	840	886	929	967	1002	1034	1064	1091	1116	1140	1162	1182
47	6.6	184,906	308	427	528	616	693	761	822	876	925	969	1009	1045	1079	1109	1138	1164	1189	1211	1233
46	6.8	193,033	322	445	552	643	724	795	858	914	965	1011	1053	1091	1126	1158	1188	1215	1241	1265	1287
45	7.1	201,708	336	465	576	672	756	831	896	955	1009	1057	1100	1140	1177	1210	1241	1270	1297	1322	1345
44	7.5	210,980	352	487	603	703	791	869	938	999	1055	1105	1151	1192	1231	1266	1298	1328	1356	1382	1407
43	7.8	220,907	368	510	631	736	828	910	982	1046	1105	1157	1205	1249	1289	1325	1359	1391	1420	1447	1473
42	8.2	231,552	386	534	662	772	868	953	1029	1097	1158	1213	1263	1309	1351	1389	1425	1458	1489	1517	1544
41	8.6	242,985	405	561	694	810	911	1001	1080	1151	1215	1273	1325	1373	1417	1458	1495	1530	1562	1592	1620
40	9.0	255,286	425	589	729	851	957	1051	1135	1209	1276	1337	1392	1443	1489	1532	1571	1607	1641	1673	1702
39	9.5	268,546	448	620	767	895	1007	1106	1194	1272	1343	1407	1465	1518	1567	1611	1653	1691	1726	1759	1790
38	10.0	282,865	471	653	808	943	1061	1165	1257	1340	1414	1482	1543	1599	1650	1697	1741	1781	1818	1853	1886
37	10.6	298,362	497	689	852	995	1119	1229	1326	1413	1492	1563	1627	1686	1740	1790	1836	1879	1918	1955	1989
36	11.2	315,168	525	727	900	1051	1182	1298	1401	1493	1576	1651	1719	1781	1838	1891	1939	1984	2026	2065	2101
35	11.8	333,435	556	769	953	1111	1250	1373	1482	1579	1667	1747	1819	1885	1945	2001	2052	2099	2144	2185	2223
34	12.5	353,337	589	815	1010	1178	1325	1455	1570	1674	1767	1851	1927	1997	2061	2120	2174	2225	2271	2315	2356