



(800) 248-8498

Ram Weight(lbs): 33,075

Diesel Hammer Energy Output and Pile Bearing Chart APE Model D150-13

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 <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>
46	6.8	226,210	377	522	646	754	848	931	1005	1072	1131	1185	1234	1279	1320	1357	1392	1424	1454	1482	1508
45	7.1	236,376	394	545	675	788	886	973	1051	1120	1182	1238	1289	1336	1379	1418	1455	1488	1520	1549	1576
44	7.5	247,242	412	571	706	824	927	1018	1099	1171	1236	1295	1349	1397	1442	1483	1521	1557	1589	1620	1648
43	7.8	258,876	431	597	740	863	971	1066	1151	1226	1294	1356	1412	1463	1510	1553	1593	1630	1664	1696	1726
42	8.2	271,350	452	626	775	905	1018	1117	1206	1285	1357	1421	1480	1534	1583	1628	1670	1709	1744	1778	1809
41	8.6	284,748	475	657	814	949	1068	1172	1266	1349	1424	1492	1553	1609	1661	1708	1752	1793	1831	1866	1898
40	9.0	299,163	499	690	855	997	1122	1232	1330	1417	1496	1567	1632	1691	1745	1795	1841	1884	1923	1960	1994
39	9.5	314,702	525	726	899	1049	1180	1296	1399	1491	1574	1648	1717	1779	1836	1888	1937	1981	2023	2062	2098
38	10.0	331,483	552	765	947	1105	1243	1365	1473	1570	1657	1736	1808	1874	1934	1989	2040	2087	2131	2172	2210
37	10.6	349,643	583	807	999	1165	1311	1440	1554	1656	1748	1831	1907	1976	2040	2098	2152	2201	2248	2291	2331
36	11.2	369,338	616	852	1055	1231	1385	1521	1642	1749	1847	1935	2015	2088	2154	2216	2273	2325	2374	2420	2462
35	11.8	390,744	651	902	1116	1302	1465	1609	1737	1851	1954	2047	2131	2209	2279	2344	2405	2460	2512	2560	2605