



(800) 248-8498

Diesel Hammer Energy Output and Pile Bearing Chart APE Model D80-23

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.

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

Ram Weight(lbs): 19,500

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	6.83	133,185	222	307	381	444	499	548	592	631	666	698	726	753	777	799	820	839	856	873	888
45	7.17	139,815	233	323	399	466	524	576	621	662	699	732	763	790	816	839	860	880	899	916	932
44	7.50	146,250	244	338	418	488	548	602	650	693	731	766	798	827	853	878	900	921	940	958	975
43	7.83	152,685	254	352	436	509	573	629	679	723	763	800	833	863	891	916	940	961	982	1000	1018
42	8.17	159,315	266	368	455	531	597	656	708	755	797	835	869	900	929	956	980	1003	1024	1044	1062
41	8.58	167,310	279	386	478	558	627	689	744	793	837	876	913	946	976	1004	1030	1053	1076	1096	1115
40	9.00	175,500	293	405	501	585	658	723	780	831	878	919	957	992	1024	1053	1080	1105	1128	1150	1170
39	9.50	185,250	309	428	529	618	695	763	823	878	926	970	1010	1047	1081	1112	1140	1166	1191	1214	1235
38	10.00	195,000	325	450	557	650	731	803	867	924	975	1021	1064	1102	1138	1170	1200	1228	1254	1278	1300
37	10.50	204,750	341	473	585	683	768	843	910	970	1024	1073	1117	1157	1194	1229	1260	1289	1316	1341	1365
36	11.17	217,815	363	503	622	726	817	897	968	1032	1089	1141	1188	1231	1271	1307	1340	1371	1400	1427	1452

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