



(800) 248-8498

Diesel Hammer Energy Output and Pile Bearing Chart APE Model D260 -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: 26,000

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	311.07	1258	1445	1578	1682	1766	1837	1899	1953	2002	2046	2086	2123	2158	2190	2219	2247	2274	2299	2323
59	1.27	323.82	1286	1477	1613	1718	1804	1877	1940	1996	2045	2090	2131	2169	2204	2237	2267	2296	2323	2348	2372
58	1.32	336.56	1314	1509	1647	1754	1842	1916	1980	2037	2088	2133	2175	2214	2249	2283	2314	2343	2370	2396	2421
57	1.37	349.31	1341	1539	1680	1790	1879	1954	2020	2078	2129	2176	2219	2258	2294	2328	2359	2389	2417	2444	2469
56	1.42	362.06	1367	1569	1713	1824	1915	1992	2059	2117	2170	2218	2261	2301	2338	2372	2404	2435	2463	2490	2516
55	1.47	374.81	1393	1599	1745	1858	1951	2029	2097	2157	2210	2258	2303	2343	2381	2416	2449	2479	2508	2536	2562
54	1.52	387.56	1419	1628	1777	1892	1986	2065	2134	2195	2250	2299	2344	2385	2423	2459	2492	2523	2553	2581	2607
53	1.58	402.86	1449	1663	1814	1931	2027	2108	2179	2241	2296	2346	2392	2434	2473	2509	2543	2575	2605	2634	2661
52	1.62	413.06	1469	1685	1838	1957	2054	2136	2208	2270	2326	2377	2424	2466	2506	2542	2577	2609	2640	2668	2696
51	1.68	428.35	1498	1718	1874	1995	2094	2178	2250	2314	2371	2423	2470	2514	2554	2591	2626	2659	2690	2720	2748
50	1.75	446.20	1532	1756	1916	2039	2140	2225	2299	2365	2423	2476	2524	2568	2609	2647	2683	2717	2748	2778	2807
49	1.83	466.60	1569	1799	1962	2088	2191	2279	2354	2421	2481	2535	2584	2629	2671	2710	2747	2781	2813	2844	2873
48	1.91	487.00	1606	1841	2007	2136	2242	2331	2408	2476	2537	2592	2642	2689	2732	2772	2809	2844	2877	2908	2938
47	1.98	504.85	1637	1876	2046	2177	2285	2375	2454	2523	2585	2642	2693	2740	2784	2824	2862	2898	2932	2963	2994
46	2.08	530.34	1681	1926	2100	2235	2345	2438	2518	2589	2653	2711	2763	2811	2856	2898	2937	2973	3008	3041	3071
45	2.19	558.39	1729	1980	2158	2296	2409	2505	2587	2660	2726	2785	2839	2888	2934	2977	3017	3054	3090	3123	3155
44	2.29	583.89	1771	2027	2210	2351	2466	2564	2649	2723	2790	2850	2905	2956	3003	3047	3088	3126	3162	3197	3229
43	2.39	609.39	1812	2074	2260	2404	2522	2622	2709	2785	2853	2915	2971	3023	3071	3115	3157	3196	3233	3268	3302
42	2.49	634.88	1852	2119	2310	2457	2577	2679	2767	2845	2915	2978	3035	3088	3137	3183	3225	3265	3303	3339	3373
41	2.62	668.03	1903	2177	2372	2523	2647	2751	2842	2922	2993	3058	3117	3171	3221	3268	3312	3353	3391	3428	3463
40	2.74	698.63	1949	2230	2429	2583	2710	2817	2909	2991	3064	3130	3190	3246	3297	3345	3389	3431	3471	3508	3544
39	2.90	739.42	2008	2297	2502	2662	2791	2901	2997	3080	3156	3224	3286	3343	3395	3445	3491	3534	3575	3613	3650
38	3.05	777.67	2063	2359	2570	2733	2866	2979	3076	3162	3239	3309	3373	3431	3485	3536	3583	3627	3669	3709	3746
37	3.20	815.91	2116	2420	2635	2802	2939	3054	3154	3242	3321	3393	3458	3518	3573	3625	3673	3719	3761	3802	3840
36	3.40	866.91	2185	2498	2720	2892	3033	3152	3255	3346	3427	3501	3568	3630	3687	3740	3790	3837	3881	3923	3962