(800) 248-8498

Diesel Hammer Energy Output and Pile Bearing Chart

APE Model D1

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)

Ram Weight(lbs): 308

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
80	2.3	696	1	2	2	2	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5
78	2.4	733	1	2	2	2	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5
76	2.5	772	1	2	2	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	5
74	2.6	814	1	2	2	3	3	3	4	4	4	4	4	5	5	5	5	5	5	5	5
72	2.8	860	1	2	2	3	3	4	4	4	4	5	5	5	5	5	5	5	6	6	6
70	3.0	910	2	2	3	3	3	4	4	4	5	5	5	5	5	5	6	6	6	6	6
68	3.1	964	2	2	3	3	4	4	4	5	5	5	5	5	6	6	6	6	6	6	6
66	3.3	1,023	2	2	3	3	4	4	5	5	5	5	6	6	6	6	6	6	7	7	7
64	3.5	1,088	2	3	3	4	4	4	5	5	5	6	6	6	6	7	7	7	7	7	7
62	3.8	1,160	2	3	3	4	4	5	5	5	6	6	6	7	7	7	7	7	7	8	8
60	4.0	1,238	2	3	4	4	5	5	6	6	6	6	7	7	7	7	8	8	8	8	8
58	4.3	1,325	2	3	4	4	5	5	6	6	7	7	7	7	8	8	8	8	9	9	9
56	4.6	1,421	2	3	4	5	5	6	6	7	7	7	8	8	8	9	9	9	9	9	9
54	5.0	1,529	3	4	4	5	6	6	7	7	8	8	8	9	9	9	9	10	10	10	10
52	5.4	1,648	3	4	5	5	6	7	7	8	8	9	9	9	10	10	10	10	11	11	11
50	5.8	1,783	3	4	5	6	7	7	8	8	9	9	10	10	10	11	11	11	11	12	12
48	6.3	1,935	3	4	6	6	7	8	9	9	10	10	11	11	11	12	12	12	12	13	13
46	6.8	2,107	4	5	6	7	8	9	9	10	11	11	11	12	12	13	13	13	14	14	14