



18-650 ▶ 24-900 ▶ 24-2500 ▶ 36-3000 ▶ 36-5000



**PILE
MASTER®**

About Pile Master® Air Hammers

Originally built for the dock building industry, Pile Master air hammers are designed for driving timber, h-pile, pipe, and prestressed concrete piles. Hammers can be guided for use with 21" or 26" pile driving leads or freely suspended with an extended base. With an optional sheet pile adapter, the Pile Master is also a great choice for driving steel sheet piles in soil conditions where a vibratory hammer cannot drive the sheets to the required depth. Pile Master air hammers are known for their efficiency—producing up to 90% energy transfer into the pile while using an air compressor as small as 185 CFM.

1058 Roland Avenue
Green Cove Springs, FL 32043

904 874 6557
pilemasterUS.com



- ▶ **MAXIMIZES AIR USAGE**
- ▶ **LIGHT WEIGHT TO RAM WEIGHT RATIO**
- ▶ **PDA TESTED**
- ▶ **GREATER ENERGY TRANSFER**

PILE MASTER SPECIFICATIONS					
	18-650*	24-900	24-2500	36-3000	36-5000
RAM Weight (lbs)	650	900	2500	3000	5000
Hammer Weight (lbs)	1300	2300	5100	6200	10200
Stroke (ft)	1.5				
Minimum (Variable)	—	0.5	0.5	0.5	0.5
Maximum (Variable)	—	2	2	3	3
Energy Rating (ft lbs)	975				
Minimum	—	450	1250	1500	2500
Maximum	—	1800	5000	9000	15000
Blows per Minute	55-70	15-60	15-60	15-45	15-45
Recommended Air @ PSI	125 CFM @ 100	185 CFM @ 125	185 CFM @ 125	375 CFM @ 125	375 CFM @ 125
Length of Hammer (ft)	7	10.5	12	14.83	16.83
WEAP I.D. #	—	657	659	660	661

Guiding Options: Spud Beam ▪ Free Hanging ▪ U-Leads

PILE MASTER 18-650*

R= $2 \times 650 \times \text{STROKE}$
S +0.1

WHEREAS
R=Bearing H=Height of RAM fall
S=Set in inches per blow

RAM WEIGHT- 650 lbs

Set Per 10 Blows	Stroke (ft)			
	0.5	1	1.5	
1/2"	0.5	2.17	4.33	6.50
5/8"	0.625	2.00	4.00	6.00
3/4"	0.75	1.86	3.71	5.57
7/8"	0.875	1.73	3.47	5.20
1"	1	1.63	3.25	4.88
1 1/8"	1.125	1.53	3.06	4.59
1 1/4"	1.25	1.44	2.89	4.33
1 3/8"	1.375	1.37	2.74	4.11
1 1/2"	1.5	1.30	2.60	3.90
1 5/8"	1.625	1.24	2.48	3.71
1 3/4"	1.75	1.18	2.36	3.55
1 7/8"	1.875	1.13	2.26	3.39
2"	2	1.08	2.17	3.25
2 1/8"	2.125	1.04	2.08	3.12
2 1/4"	2.25	1.00	2.00	3.00
2 3/8"	2.375	0.96	1.93	2.89
2 1/2"	2.5	0.93	1.86	2.79
2 5/8"	2.625	0.90	1.79	2.69
2 3/4"	2.75	0.87	1.73	2.60
2 7/8"	2.875	0.84	1.68	2.52
3"	3	0.81	1.63	2.44
3 1/8"	3.125	0.79	1.58	2.36
3 1/4"	3.25	0.76	1.53	2.29
3 3/8"	3.375	0.74	1.49	2.23
3 1/2"	3.5	0.72	1.44	2.17
3 5/8"	3.625	0.70	1.41	2.11
3 3/4"	3.75	0.68	1.37	2.05
3 7/8"	3.875	0.67	1.33	2.00
4"	4	0.65	1.30	1.95
4 1/8"	4.125	0.63	1.27	1.90
4 1/4"	4.25	0.62	1.24	1.86
4 3/8"	4.375	0.60	1.21	1.81
4 1/2"	4.5	0.59	1.18	1.77
4 5/8"	4.625	0.58	1.16	1.73
4 3/4"	4.75	0.57	1.13	1.70
4 7/8"	4.875	0.55	1.11	1.66
5"	5	0.54	1.08	1.63

PILE MASTER 24-900

R= $2 \times 900 \times \text{STROKE}$
S +0.1

WHEREAS
R=Bearing H=Height of RAM fall
S=Set in inches per blow

RAM WEIGHT- 900 lbs

Set Per 10 Blows	Stroke (ft)				
	0.5	1	1.5	2	
1/2"	0.5	3.00	6.00	9.00	12.00
5/8"	0.625	2.77	5.54	8.31	11.08
3/4"	0.75	2.57	5.14	7.71	10.29
7/8"	0.875	2.40	4.80	7.20	9.60
1"	1	2.25	4.50	6.75	9.00
1 1/8"	1.125	2.12	4.24	6.35	8.47
1 1/4"	1.25	2.00	4.00	6.00	8.00
1 3/8"	1.375	1.89	3.79	5.68	7.58
1 1/2"	1.5	1.80	3.60	5.40	7.20
1 5/8"	1.625	1.71	3.43	5.14	6.86
1 3/4"	1.75	1.64	3.27	4.91	6.55
1 7/8"	1.875	1.57	3.13	4.70	6.26
2"	2	1.50	3.00	4.50	6.00
2 1/8"	2.125	1.44	2.88	4.32	5.76
2 1/4"	2.25	1.38	2.77	4.15	5.54
2 3/8"	2.375	1.33	2.67	4.00	5.33
2 1/2"	2.5	1.29	2.57	3.86	5.14
2 5/8"	2.625	1.24	2.48	3.72	4.97
2 3/4"	2.75	1.20	2.40	3.60	4.80
2 7/8"	2.875	1.16	2.32	3.48	4.65
3"	3	1.13	2.25	3.38	4.50
3 1/8"	3.125	1.09	2.18	3.27	4.36
3 1/4"	3.25	1.06	2.12	3.18	4.24
3 3/8"	3.375	1.03	2.06	3.09	4.11
3 1/2"	3.5	1.00	2.00	3.00	4.00
3 5/8"	3.625	0.97	1.95	2.92	3.89
3 3/4"	3.75	0.95	1.89	2.84	3.79
3 7/8"	3.875	0.92	1.85	2.77	3.69
4"	4	0.90	1.80	2.70	3.60
4 1/8"	4.125	0.88	1.76	2.63	3.51
4 1/4"	4.25	0.86	1.71	2.57	3.43
4 3/8"	4.375	0.84	1.67	2.51	3.35
4 1/2"	4.5	0.82	1.64	2.45	3.27
4 5/8"	4.625	0.80	1.60	2.40	3.20
4 3/4"	4.75	0.78	1.57	2.35	3.13
4 7/8"	4.875	0.77	1.53	2.30	3.06
5"	5	0.75	1.50	2.25	3.00

PILE MASTER 24-2500

R= $2 \times 2500 \times \text{STROKE}$
S +0.1

WHEREAS
R=Bearing H=Height of RAM fall
S=Set in inches per blow

RAM WEIGHT- 2500 lbs

Set Per 10 Blows	Stroke (ft)				
	0.5	1	1.5	2	
1/2"	0.5	8.33	16.67	25.00	33.33
5/8"	0.625	7.69	15.38	23.08	30.77
3/4"	0.75	7.14	14.29	21.43	28.57
7/8"	0.875	6.67	13.33	20.00	26.67
1"	1	6.25	12.50	18.75	25.00
1 1/8"	1.125	5.88	11.76	17.65	23.53
1 1/4"	1.25	5.56	11.11	16.67	22.22
1 3/8"	1.375	5.26	10.53	15.79	21.05
1 1/2"	1.5	5.00	10.00	15.00	20.00
1 5/8"	1.625	4.76	9.52	14.29	19.05
1 3/4"	1.75	4.55	9.09	13.64	18.18
1 7/8"	1.875	4.35	8.70	13.04	17.39
2"	2	4.17	8.33	12.50	16.67
2 1/8"	2.125	4.00	8.00	12.00	16.00
2 1/4"	2.25	3.85	7.69	11.54	15.38
2 3/8"	2.375	3.70	7.41	11.11	14.81
2 1/2"	2.5	3.57	7.14	10.71	14.29
2 5/8"	2.625	3.45	6.90	10.34	13.79
2 3/4"	2.75	3.33	6.67	10.00	13.33
2 7/8"	2.875	3.23	6.45	9.68	12.90
3"	3	3.13	6.25	9.38	12.50
3 1/8"	3.125	3.03	6.06	9.09	12.12
3 1/4"	3.25	2.94	5.88	8.82	11.76
3 3/8"	3.375	2.86	5.71	8.57	11.43
3 1/2"	3.5	2.78	5.56	8.33	11.11
3 5/8"	3.625	2.70	5.41	8.11	10.81
3 3/4"	3.75	2.63	5.26	7.89	10.53
3 7/8"	3.875	2.56	5.13	7.69	10.26
4"	4	2.50	5.00	7.50	10.00
4 1/8"	4.125	2.44	4.88	7.32	9.76
4 1/4"	4.25	2.38	4.76	7.14	9.52
4 3/8"	4.375	2.33	4.65	6.98	9.30
4 1/2"	4.5	2.27	4.55	6.82	9.09
4 5/8"	4.625	2.22	4.44	6.67	8.89
4 3/4"	4.75	2.17	4.35	6.52	8.70
4 7/8"	4.875	2.13	4.26	6.38	8.51
5"	5	2.08	4.17	6.25	8.33

PILE MASTER 36-3000

R= 2 X 3000 X STROKE
S +0.1

WHEREAS

R=Bearing H=Height of RAM fall
S=Set in inches per blow

RAM WEIGHT• 3000 lbs

Set Per 10 Blows	Stroke (ft)						
		0.5	1	1.5	2	2.5	3
1/2"	0.5	10.00	20.00	30.00	40.00	50.00	60.00
5/8"	0.625	9.23	18.46	27.69	36.92	46.15	55.38
3/4"	0.75	8.57	17.14	25.71	34.29	42.88	51.43
7/8"	0.875	8.00	16.00	24.00	32.00	40.00	48.00
1"	1	7.50	15.00	22.50	30.00	37.50	45.00
1 1/8"	1.125	7.06	14.12	21.18	28.24	35.29	42.35
1 1/4"	1.25	6.67	13.33	20.00	26.67	33.33	40.00
1 3/8"	1.375	6.32	12.63	18.95	25.28	31.58	37.89
1 1/2"	1.5	6.00	12.00	18.00	24.00	30.00	36.00
1 5/8"	1.625	5.71	11.43	17.14	22.86	28.57	34.29
1 3/4"	1.75	5.45	10.91	16.36	21.82	27.27	32.73
1 7/8"	1.875	5.22	10.43	15.65	20.87	26.09	31.30
2"	2	5.00	10.00	15.00	20.00	25.00	30.00
2 1/8"	2.125	4.80	9.60	14.40	19.20	24.00	28.80
2 1/4"	2.25	4.62	9.23	13.85	18.46	23.08	27.69
2 3/8"	2.375	4.44	8.89	13.33	17.78	22.22	26.67
2 1/2"	2.5	4.29	8.57	12.86	17.14	21.43	25.71
2 5/8"	2.625	4.14	8.28	12.41	16.55	20.69	24.83
2 3/4"	2.75	4.00	8.00	12.00	16.00	20.00	24.00
2 7/8"	2.875	3.87	7.74	11.61	15.48	19.35	23.23
3"	3	3.75	7.50	11.25	15.00	18.75	22.50
3 1/8"	3.125	3.64	7.27	10.91	14.55	18.18	21.82
3 1/4"	3.25	3.53	7.06	10.59	14.12	17.65	21.18
3 3/8"	3.375	3.43	6.86	10.29	13.71	17.14	20.57
3 1/2"	3.5	3.33	6.67	10.00	13.33	16.67	20.00
3 5/8"	3.625	3.24	6.49	9.73	12.97	16.22	19.46
3 3/4"	3.75	3.16	6.32	9.47	12.63	15.79	18.95
3 7/8"	3.875	3.08	6.15	9.23	12.31	15.38	18.46
4"	4	3.00	6.00	9.00	12.00	15.00	18.00
4 1/8"	4.125	2.93	5.85	8.78	11.71	14.63	17.56
4 1/4"	4.25	2.86	5.71	8.57	11.43	14.29	17.14
4 3/8"	4.375	2.79	5.58	8.37	11.16	13.95	16.74
4 1/2"	4.5	2.73	5.45	8.18	10.91	13.64	16.36
4 5/8"	4.625	2.67	5.33	8.00	10.67	13.33	16.00
4 3/4"	4.75	2.61	5.22	7.83	10.43	13.04	15.65
4 7/8"	4.875	2.55	5.11	7.66	10.21	12.77	15.32
5"	5	2.50	5.00	7.50	10.00	12.50	15.00

PILE MASTER 36-5000

R= 2 X 5000 X STROKE
S +0.1

WHEREAS

R=Bearing H=Height of RAM fall
S=Set in inches per blow

RAM WEIGHT• 5000 lbs

Set Per 10 Blows	Stroke (ft)						
		0.5	1	1.5	2	2.5	3
1/2"	0.5	16.67	33.33	50.00	66.67	83.33	100.00
5/8"	0.625	15.38	30.77	46.15	61.54	76.92	92.31
3/4"	0.75	14.29	28.57	42.86	57.14	71.43	85.71
7/8"	0.875	13.33	26.67	40.00	53.33	66.67	80.00
1"	1	12.50	25.00	37.50	50.00	62.50	75.00
1 1/8"	1.125	11.76	23.53	35.29	47.06	58.82	70.59
1 1/4"	1.25	11.11	22.22	33.33	44.44	55.56	66.67
1 3/8"	1.375	10.53	21.05	31.58	42.11	52.63	63.16
1 1/2"	1.5	10.00	20.00	30.00	40.00	50.00	60.00
1 5/8"	1.625	9.52	19.05	28.57	38.10	47.62	57.14
1 3/4"	1.75	9.09	18.18	27.27	36.36	45.45	54.55
1 7/8"	1.875	8.70	17.39	26.09	34.78	43.48	52.17
2"	2	8.33	16.67	25.00	33.33	41.67	50.00
2 1/8"	2.125	8.00	16.00	24.00	32.00	40.00	48.00
2 1/4"	2.25	7.69	15.38	23.08	30.77	38.46	46.15
2 3/8"	2.375	7.41	14.81	22.22	29.63	37.04	44.44
2 1/2"	2.5	7.14	14.29	21.43	28.57	35.71	42.86
2 5/8"	2.625	6.90	13.79	20.69	27.59	34.48	41.38
2 3/4"	2.75	6.67	13.33	20.00	26.67	33.33	40.00
2 7/8"	2.875	6.45	12.90	19.35	25.81	32.26	38.71
3"	3	6.25	12.50	18.75	25.00	31.25	37.50
3 1/8"	3.125	6.06	12.12	18.18	24.24	30.30	36.36
3 1/4"	3.25	5.88	11.76	17.65	23.53	29.41	35.29
3 3/8"	3.375	5.71	11.43	17.14	22.86	28.57	34.29
3 1/2"	3.5	5.56	11.11	16.67	22.22	27.78	33.33
3 5/8"	3.625	5.41	10.81	16.22	21.62	27.03	32.43
3 3/4"	3.75	5.26	10.53	15.79	21.05	26.32	31.58
3 7/8"	3.875	5.13	10.26	15.38	20.51	25.64	30.77
4"	4	5.00	10.00	15.00	20.00	25.00	30.00
4 1/8"	4.125	4.88	9.76	14.63	19.51	24.39	29.27
4 1/4"	4.25	4.76	9.52	14.29	19.05	23.81	28.57
4 3/8"	4.375	4.65	9.30	13.95	18.60	23.26	27.91
4 1/2"	4.5	4.55	9.09	13.64	18.18	22.73	27.27
4 5/8"	4.625	4.44	8.89	13.33	17.78	22.22	26.67
4 3/4"	4.75	4.35	8.70	13.04	17.39	21.74	26.09
4 7/8"	4.875	4.26	8.51	12.77	17.02	21.28	25.53
5"	5	4.17	8.33	12.50	16.67	20.83	25.00



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Questions?

Please email mroberts@pilemasterUS.com