



24-900 ▶ 24-2500 ▶ 36-3000 ▶ 36-5000



#### 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.

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

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

**Guiding Options:** Spud Beam • Free Hanging • U-Leads

### PILE MASTER 24-900

R= 2 X 900 X 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 X 2500 X 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** WHEREAS  
 S +0.1 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** WHEREAS  
 S +0.1 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?**  
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