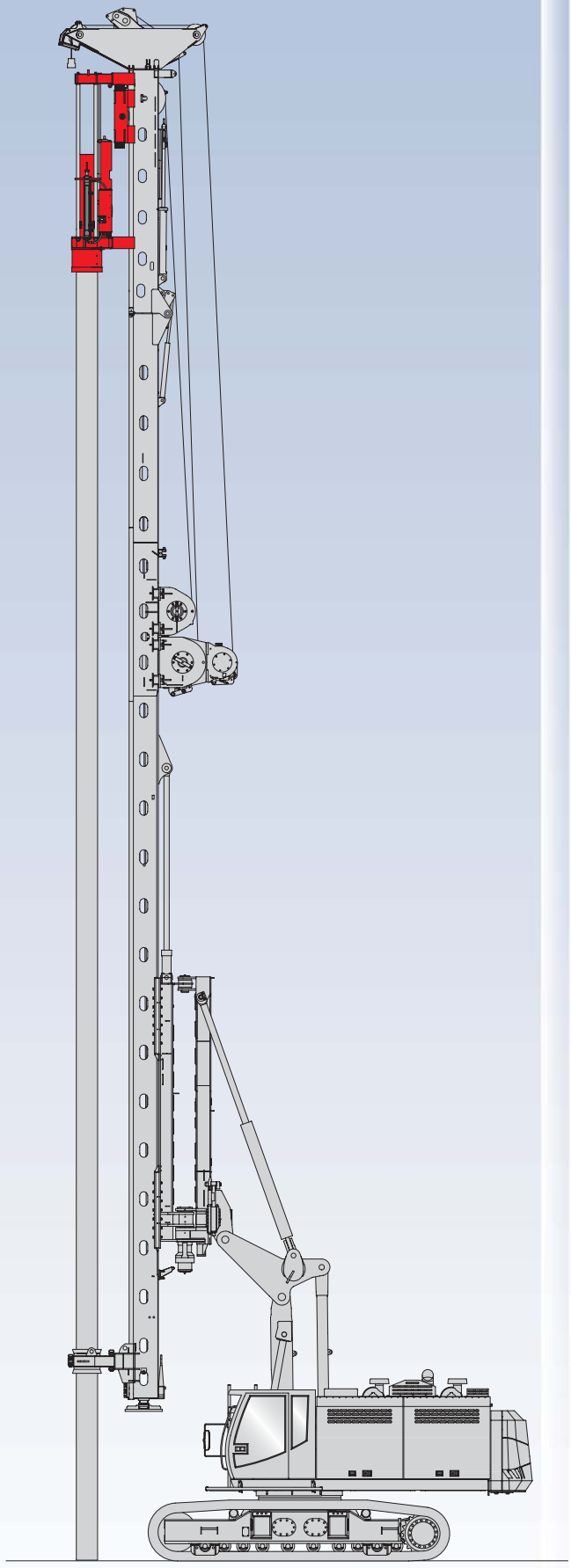
Hydraulic Hammers
Leaders - Accessories

FAMBO

FAMBO - The specialist for Hydraulic Pile-Driving



Innovation - Time proven design - Environmental sensitivity

Fambo is a technology orientated company, specialized in various kinds of modern pile-driving equipment. As part of the BAUER Maschinen Group of Companies, Fambo offers a wide range of superior pile-driving equipment and a level of service - including customer specified design and fabrication. Fambo offers the knowledge and experience necessary to match the right system and project for the most efficient and cost-effective outcome.

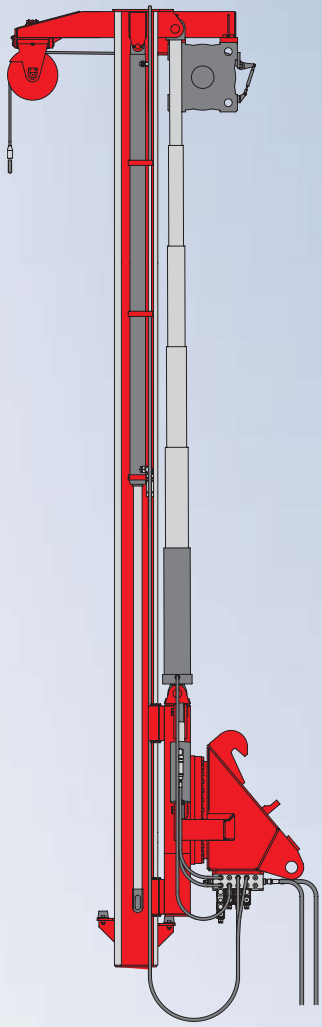
Fambo has been designing and producing hydraulic piling hammers and equipment for 40 years. This experience has resulted in a wide range of hydraulic piling-hammers that can be supplied to suit any leader. Their light and intelligent construction makes them very suitable for mounting on hydraulic excavators either with their own leader or with Fambo's all purpose leader.

PR-Leader Specifications

Versatility

The PR all-purpose leaders fit different types of tool carrier and is suitable for:

- Driving steel, concrete, timber-piles with Fambo hammer
- Soil drilling with drilling unit
- Driving and extracting sheet piles and steel piles with vibrator



Quickly and easily replaceable

PR leaders fit onto the bucket attachment of the tool carrier. If the rig has a quick-change head, changing from digger to piledriver takes about 10 min.
The leader design makes it ideal for difficult-to-reach sites such as:

- Limited headroom conditions
- Difficult corners
- Driving works on embankments or in shafts

The hydraulic drive is taken either from the tool carrier or from a separate hydraulic pump. The PR-leaders can be assembled on different carriers or excavators.

Model	PR 700		PR 1100	
Length of mast	3.300 mm	10.8 ft	5.500 mm	18 ft
Forward rake	45°	45°	45°	45°
Backward rake	45°	45°	45°	45°
Side rake	15° +/-	15° +/-	15° +/-	15° +/-
Single line pull	10 kN	2,248 lbf	15 kN	3,370 lbf
Rope speed *	25 m/min	4.8 ft/min	40 m/min	130 ft/min
Reach *	5 m	16.4 ft	10 m	32.8 ft
Pile length *	6 m	19.7 ft	10 m	32.8 ft
Weight	600 kg	1,323 lb	1.300 kg	2,870 lb
Vertical leader movement			2.980 mm	9.8 ft
Oil flow (recommended)	20 - 40 l/min	5.3 - 10.6 gl/min	35 - 60 l/min	9.2 - 15.9 gl/min
Hydraulic pressure (recommended)	180 bar	2,610 psi	250 bar	3,626 psi

* dependent on type of carrier

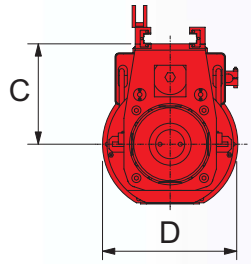
FAMBO HR Hydraulic Hammers - Specifications

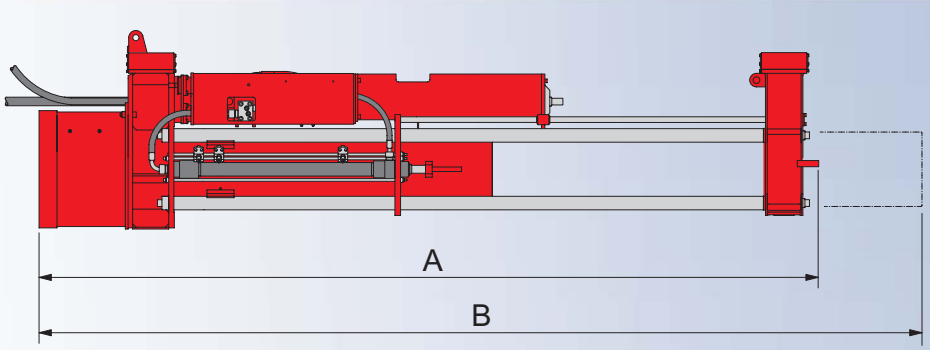
- The steel-lead mixture produces a longer stress wave in a concrete pile with reduced peak forces in the pile and larger penetration depth per impact
- Drop hammer bodies designed to transmit maximum power and force to piles
- Stepless driving frequency control
- An external hydraulic-power pack can be used
- "Akku"-system for hydraulic-power-reduction
- Controlling-system for adjusting the drop height and impact frequency to job-site conditions
- Variable helmet for different applications and pile-materials
- Different ram-bodies in the same hammer-frame
- Easy assembly on different carriers, as the hammer has an independent controlling-system
- Compact open design, simplifies application and handling whilst protecting vital components

Model		HR 250*	HR 500*	HR 500	HR 1000
Piston weight					
	kg	250	500	500	1.000
Total weight with guiding					
	kg	385	825	1.200	1.700
Blows per min., steplessly adjustable					
	1/min	0 - 100	0 - 100	0 - 100	0 - 100
Energy per blow, steplessly adjustable					
	Nm	0 - 2.450	0 - 4.800	0 - 5.885	0 - 11.770
Drop height, steplessly					
	m	0 - 1,0	0 - 1,0	0 - 1,2	0 - 1,2
Hydraulic-System					
Working Pressure	bar	120	230	120	180
Flow rate	l/min	40 - 75	40 - 75	40 - 90	40 - 90
Required hydraulic power	kW	12 - 25	30 - 50	15 - 30	15 - 30
Dimensions					
Length **A**	mm	1.965	1.750	3.200	3.200
Length **B**	mm	2.965	2.750	3.200	3.200
Driving axis **C**	mm	180	250	435	435
Width **D**	mm	290	350	520	520
Pile cap (inside diameter)	mm	200	250	250	300
Pile weight (recomm.) soil-dependent	ton	up to 0,4	up to 0,8	up to 1,5	up to 1,8
Electrical power		24 V DC / 8 A (for all types)			

* HR hammer without accumulator

Metric Units



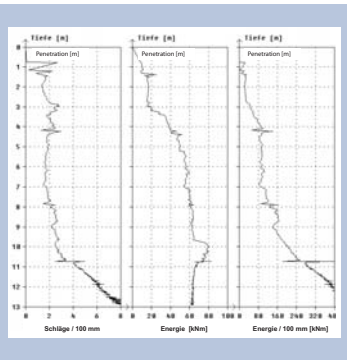


HR 1500	HR 2000	HR 2750	HR 3000	HR 4000	HR 5000	HR 7000	HR 10000
1.500	2.000	2.750	3.000	4.000	5.000	7.000	10.000
2.300	2.800	3.700	4.600	5.600	6.600	8.800	12.200
0 - 100	0 - 100	0 - 100	0 - 100	0 - 100	0 - 100	0 - 100	0 - 100
0 - 17.650	0 - 23.500	0 - 30.250	0 - 35.300	0 - 47.000	0 - 58.800	0 - 82.400	0 - 117.000
0 - 1,2	0 - 1,2	0 - 1,2	0 - 1,2	0 - 1,2	0 - 1,2	0 - 1,2	0 - 1,2
210	270	300	200	250	270	270	290
40 - 90	60 - 90	60 - 90	120 - 180	120 - 180	120 - 180	150 - 200	200 - 350
18 - 40	20 - 50	35 - 55	50 - 75	60 - 90	65 - 100	80 - 105	105 - 185
3.200	3.295	3.400	3.300	3.400	3.500	3.800	4.700
3.780	4.495	4.600	4.500	4.600	4.700	5.000	5.900
435	435	450	500	500	500	600	650
520	520	600	700	700	700	700	900
350	380	380	510	510	510	600	600
up to 2,7	up to 3,0	up to 3,5	up to 3,8	up to 4,4	up to 5,2	up to 5,8	up to 10,0
24 V DC / 8 A (for all types)							

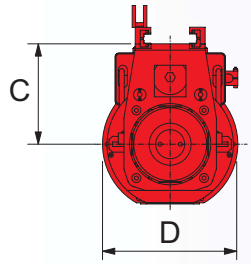
Pileoc HR Hydraulic Hammers - Specifications

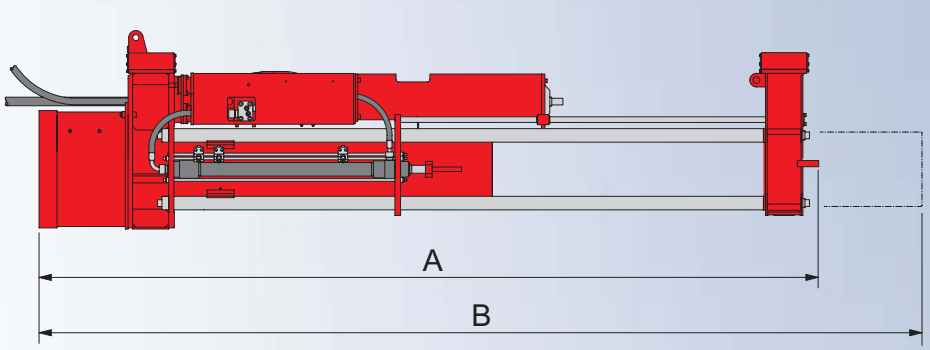
Model		HR 250*	HR 500*	HR 500	HR 1000
Piston weight					
	lb	550	1,100	1,100	2,204
Total weight with guiding					
	lb	849	1,819	2,645	3,748
Blows per min., steplessly adjustable					
	1/min	0 - 100	0 - 100	0 - 100	0 - 100
Energy per blow, steplessly adjustable					
	lbf-ft	0 - 1,807	0 - 3,540	0 - 4,340	0 - 8,681
Drop height, steplessly					
	ft	0 - 3.3	0 - 3.3	0 - 3.9	0 - 3.9
Hydraulic-System					
Working Pressure	psi	1,740	3,336	1,740	2,610
Flow rate	gl/min	10.5 - 19.8	10.5 - 19.8	10.5 - 23.8	10.5 - 23.8
Required hydraulic power	HP	16 - 33.5	40.2 - 67	20 - 40	20 - 40
Dimensions					
Length **A**	ft	6.4	5.7	10.5	10.5
Length **B**	ft	9.7	9.0	10.5	10.5
Driving axis **C**	in	7.0	9.8	17.1	17.1
Width **D**	in	11.4	13.8	20.5	20.5
Pile cap inside diameter	in	7.9	9.8	9.8	11.8
Pile weight (recomm.) soil-dependent	tn	up to 0.44	up to 0.88	up to 1.7	up to 2.0
Electrical power			24 V DC / 8 A (for all types)		

* HR hammer without accumulator



English Units





HR 1500	HR 2000	HR 2750	HR 3000	HR 4000	HR 5000	HR 7000	HR 10000
3,307	4,409	6,063	6,614	8,818	11,023	15,432	22,046
5,070	6,173	8,157	10,140	12,346	14,550	19,400	26,896
0 - 100	0 - 100	0 - 100	0 - 100	0 - 100	0 - 100	0 - 100	0 - 100
0 - 13,018	0 - 17,333	0 - 22,311	0 - 26,036	0 - 34,665	0 - 43,369	0 - 60,775	0 - 86,295
0 - 3.9	0 - 3.9	0 - 3.9	0 - 3.9	0 - 3.9	0 - 3.9	0 - 3.9	0 - 3.9
3,046	3,916	4,351	2,900	3,626	3,916	3,916	4,206
10.5 - 23.8	15.8 - 23.8	15.8 - 23.8	31.7 - 47.6	31.7 - 47.6	31.7 - 47.6	39.6 - 52.8	52.8 - 92.5
24 - 54	26.8 - 67	46.9 - 73.8	67 - 100.5	80.5 - 120.7	87 - 134.1	107.3 - 140.8	140.8 - 248
10.5	10.8	11.2	10.8	11.2	11.5	12.5	15.4
12.4	14.7	15.0	14.8	15.0	15.4	16.4	19.4
17.1	17.1	17.7	19.7	19.7	19.7	23.6	25.6
20.5	20.5	23.6	27.6	27.6	27.6	27.6	35.4
13.8	14.9	14.9	20.1	20.1	20.1	23.6	23.6
up to 3.0	up to 3.3	up to 4.2	up to 4.2	up to 4.9	up to 5.7	up to 6.4	up to 11.0
24 V DC / 8 A (for all types)							

Quality Assurance Control System

A quality control system enables piling work to be carried out well controlled and allows subsequent verification of actual working parameters. In order to be able to proof the load bearing capacity, the hydraulic hammers are equipped with modern sensors for measuring of parameters such as impact energy and frequency, number of blows and penetration depth. In a basic version, the system measures the actual velocity of the hammer against the pile. The operator can read the exact drop or blow frequency on a display in the driver's cab. An extended version measures and registers the impact speed/energy of the hammer and the penetration of the pile with each impact. Data are recorded in a memory-system which can then be read on an ordinary PC.

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