

# FREE

## Free Hanging Crane Mounted Hydraulic Vibratory Hammers



Crane mounted vibratory hammers are designed for long sheet pile or long steel tubes driving projects where excavator booms are not long enough. For instance, it is not possible to drive 25 meter or longer sheet piles by excavator mounted type vibratory hammers.



Crane mounted vibratory hammers are operated by separate hydraulic power packs as there is no hydraulic oil supply in cranes .



Crane mounted vibratory hammers are used in big bridge , sea port projects. These types are also used in stone - column projects. Because of the high level of centrifugal force, crane mounted vibratory hammers are preferred in hard soil conditions.



### FREE - Free Hanging Crane Mounted Hydraulic Vibratory Hammers

- ▲ ESF 14
- ▲ ESF 55C
- ▲ ESF 20
- ▲ ESF 88
- ▲ ESF 23
- ▲ ESF 110
- ▲ ESF 55
- ▲ ESF 200C

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# ESF 14

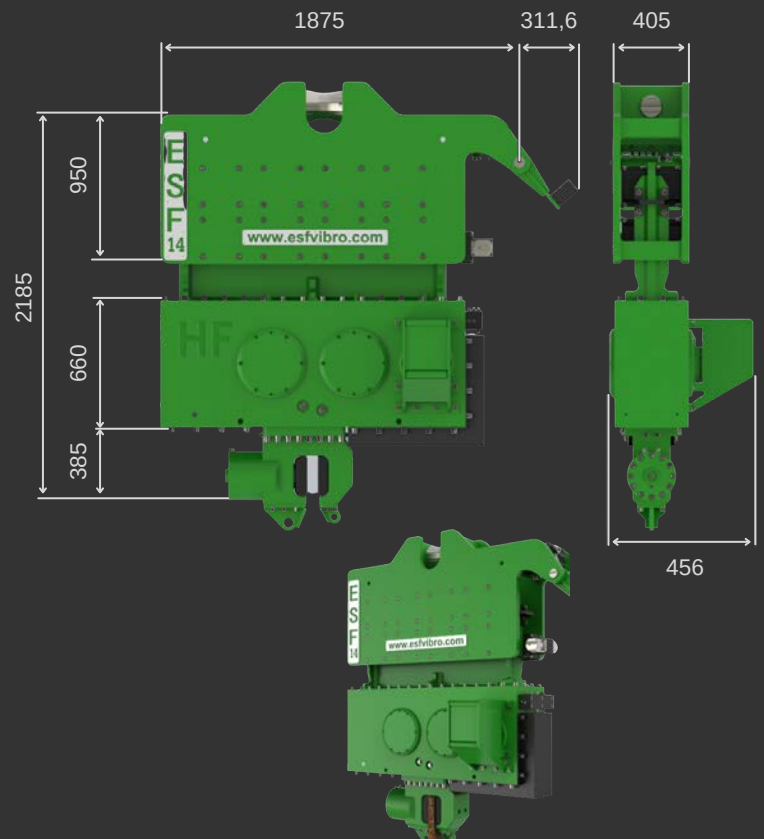
## CRANE MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF 14 crane mounted high frequency vibratory hammer with gearbox cooling system is designed for sheet pile or steel tube driving projects in hard soil conditions. ESF14 HF is operated by PS350 Power Pack. The dimensions are designed for easy transport. 1xFCM90 Sheet Pile and 2xFCM60 pipe clamp can be mounted.

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Centrifugal Force	kN	743
Eccentric Moment	kgm	14
Speed	rpm	2200
Pulling Force	kN	320
Total Weight (Incl. Clamp)	kg	3750
Dynamic Weight (Incl. Clamp)	kg	2400
Amplitude	mm	12
Power	kW	189
Displacement	liter/min	322
Working Pressure	bar	300
Height	mm	2185
Width	mm	405
Length	mm	1875



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# ESF 20

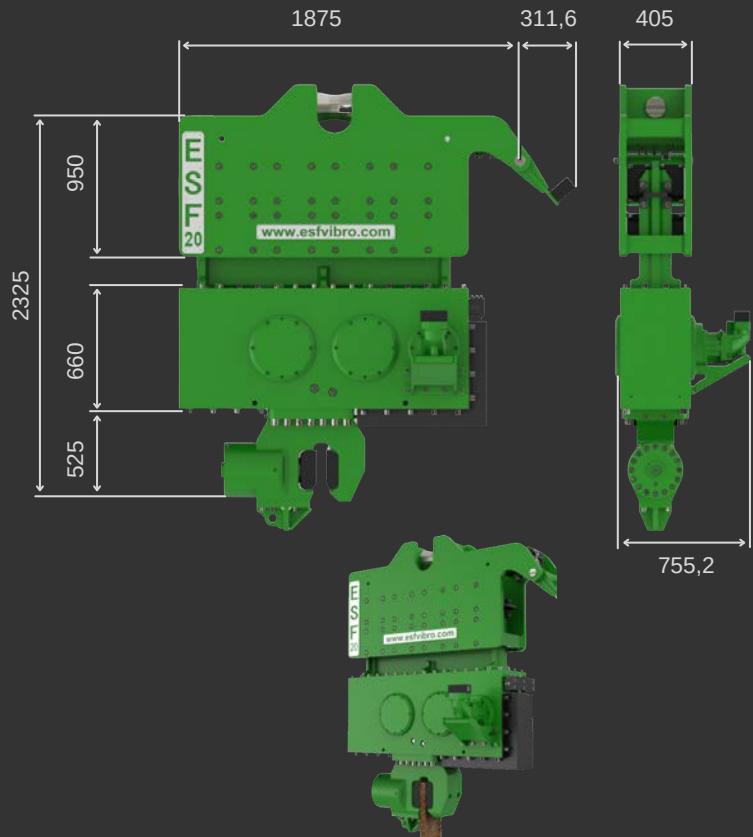
## CRANE MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF 20 is Normal Frequency vibratory hammer with gear box cooling system as standard. As it is Normal Frequency it is operated by PS300 power pack. The FCM100 sheet pile clamp and 2xPCM60 pipe clamp can be mounted.

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Centrifugal Force	kN	562
Eccentric Moment	kgm	20
Speed	rpm	1600
Pulling Force	kN	320
Total Weight (Incl. Clamp)	kg	3750
Dynamic Weight (Incl. Clamp)	kg	2600
Amplitude	mm	23,5
Power	kW	137
Displacement	liter/min	275
Working Pressure	bar	300
Height	mm	2325
Width	mm	755,2
Length	mm	1875



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# ESF 23

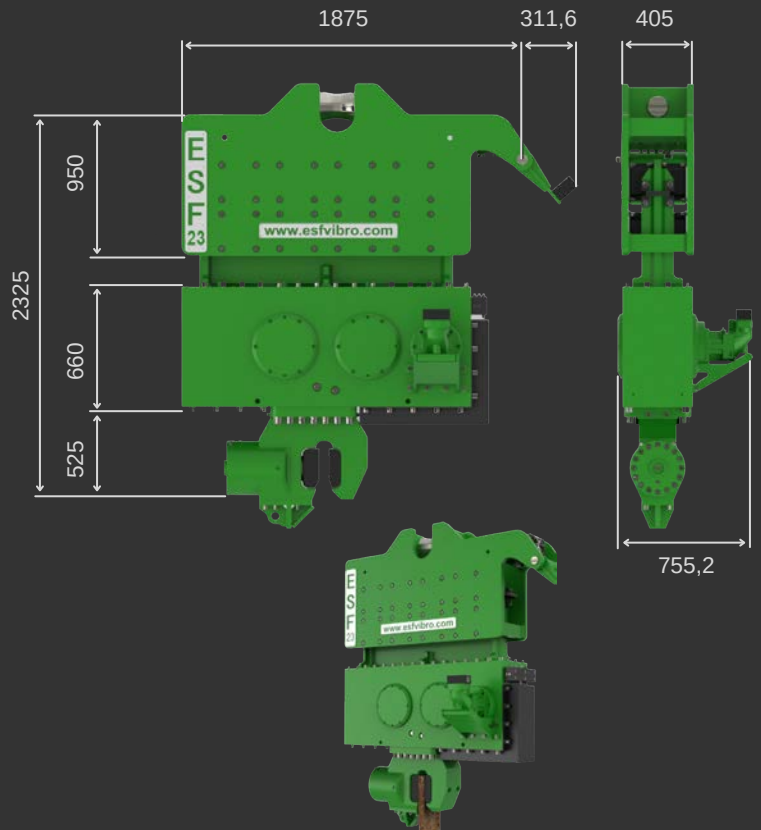
## CRANE MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF 23 is Normal Frequency vibratory hammer with gear box cooling system as standard. As it is Normal Frequency it is operated by PS350 power pack. The FCM100 sheet pile clamp and 2xPCM60 pipe clamp can be mounted.

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Centrifugal Force	kN	645
Eccentric Moment	kgm	23
Speed	rpm	1600
Pulling Force	kN	645
Total Weight (Incl. Clamp)	kg	3050
Dynamic Weight (Incl. Clamp)	kg	1770
Amplitude	mm	26
Power	kW	137
Displacement	liter/min	275
Working Pressure	bar	300
Height	mm	2325
Width	mm	755,2
Length	mm	1875



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# ESF 55

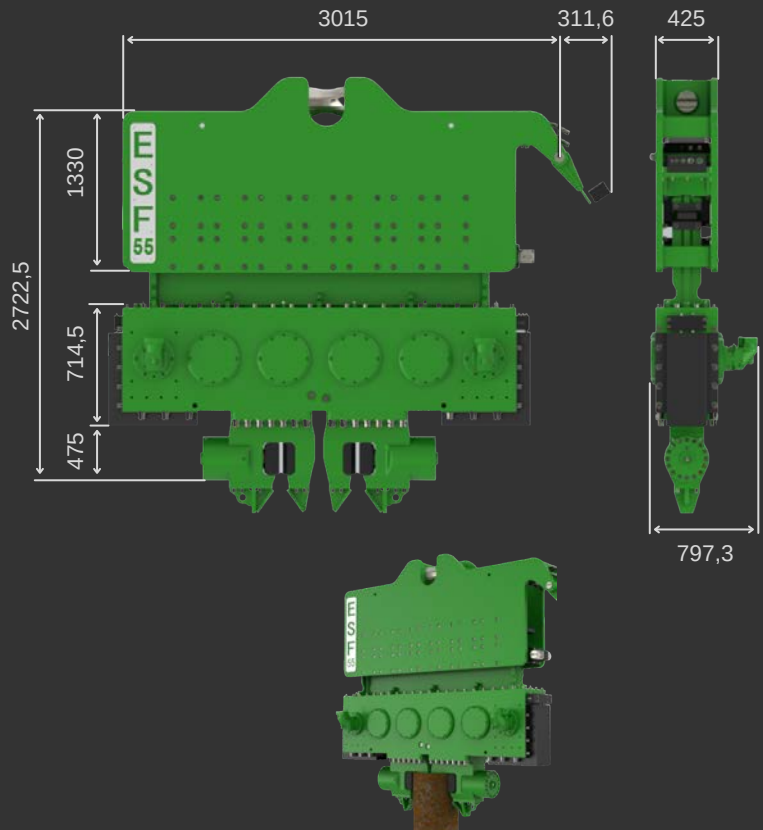
## CRANE MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF 55 is Normal Frequency vibratory hammer with gear box cooling system as standard. As it is Normal Frequency it is operated by PS600 power pack. The FCM180 sheet pile clamp and 2xPCM100 pipe clamp can be mounted.

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Centrifugal Force	kN	1545
Eccentric Moment	kgm	55
Speed	rpm	1600
Pulling Force	kN	800
Total Weight (Incl. Clamp)	kg	5800
Dynamic Weight (Incl. Clamp)	kg	3680
Amplitude	mm	30
Power	kW	412
Displacement	liter/min	600
Working Pressure	bar	350
Height	mm	2722,5
Width	mm	797,3
Length	mm	3015



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# ESF 55C

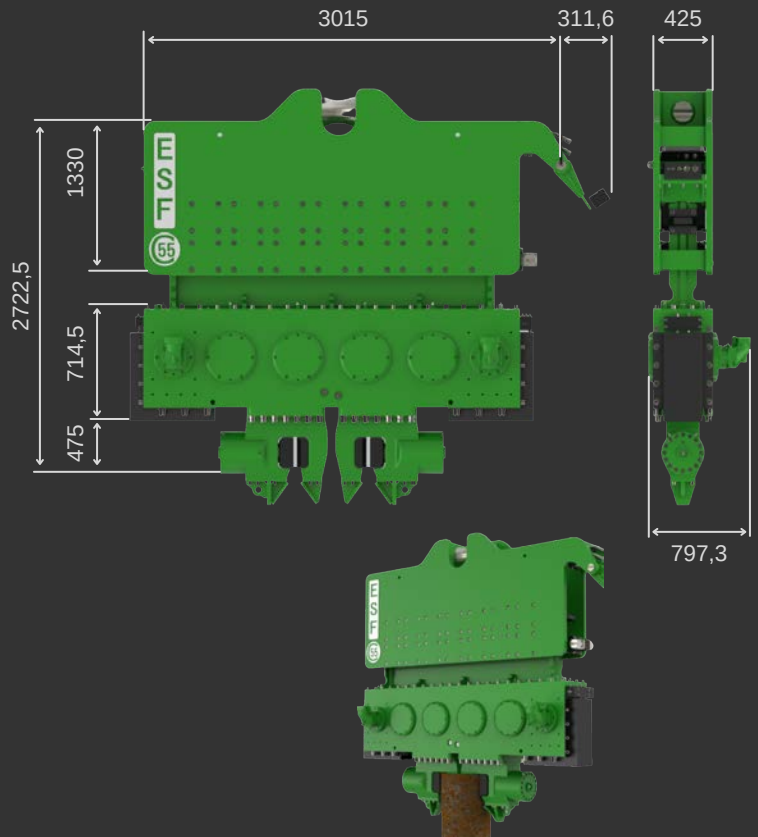
## CRANE MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF 55C is High Frequency vibratory hammer with gearbox cooling system as standard. As it is High Frequency it is operated by PS600 power pack. The FCM180 sheet pile clamp and 2xPCM100 pipe clamp can be mounted. This model is specially designed for hard-clay ground formations.

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Centrifugal Force	kN	1948
Eccentric Moment	kgm	55
Speed	rpm	1900
Pulling Force	kN	800
Total Weight (Incl. Clamp)	kg	8100
Dynamic Weight (Incl. Clamp)	kg	3850
Amplitude	mm	28,5
Power	kW	412
Displacement	liter/min	600
Working Pressure	bar	350
Height	mm	2722,5
Width	mm	797,3
Length	mm	3015



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# ESF 88

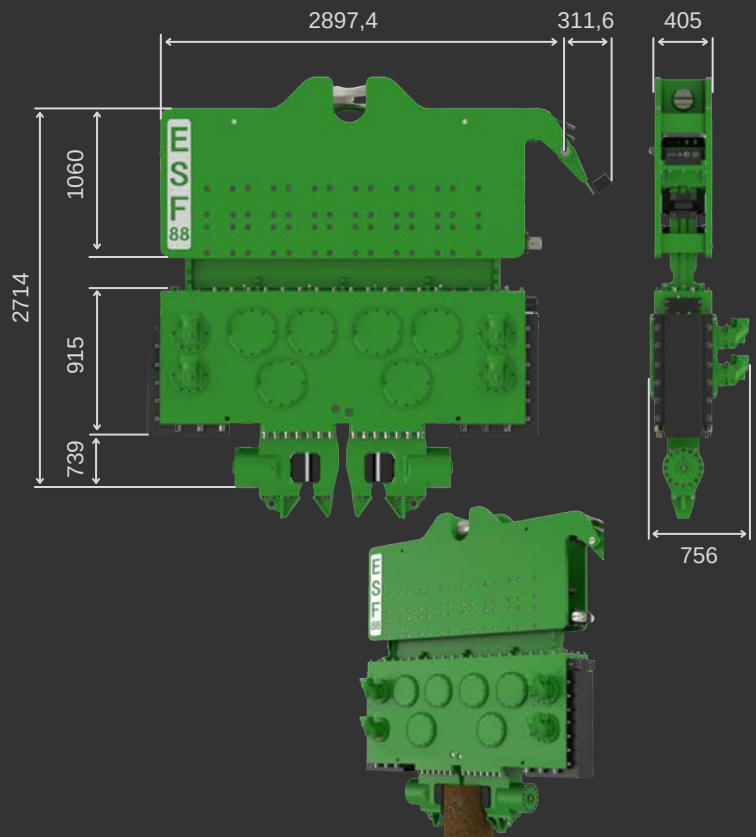
## CRANE MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF 88 is Normal Frequency vibratory hammer with gear box cooling system as standard. As it is Normal Frequency it is operated by PS800 power pack. The FCM200 sheet pile clamp and 2xPCM120 pipe clamp can be mounted. This model is preferred to drive long sheet piles or steel tubes in seaport or bridge const. projects.

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Centrifugal Force	kN	2190
Eccentric Moment	kgm	88
Speed	rpm	1600
Pulling Force	kN	2780
Total Weight (Incl. Clamp)	kg	7850
Dynamic Weight (Incl. Clamp)	kg	5028
Amplitude	mm	35
Power	kW	510
Displacement	liter/min	800
Working Pressure	bar	340
Height	mm	2714
Width	mm	756
Length	mm	2897,4



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# ESF 110

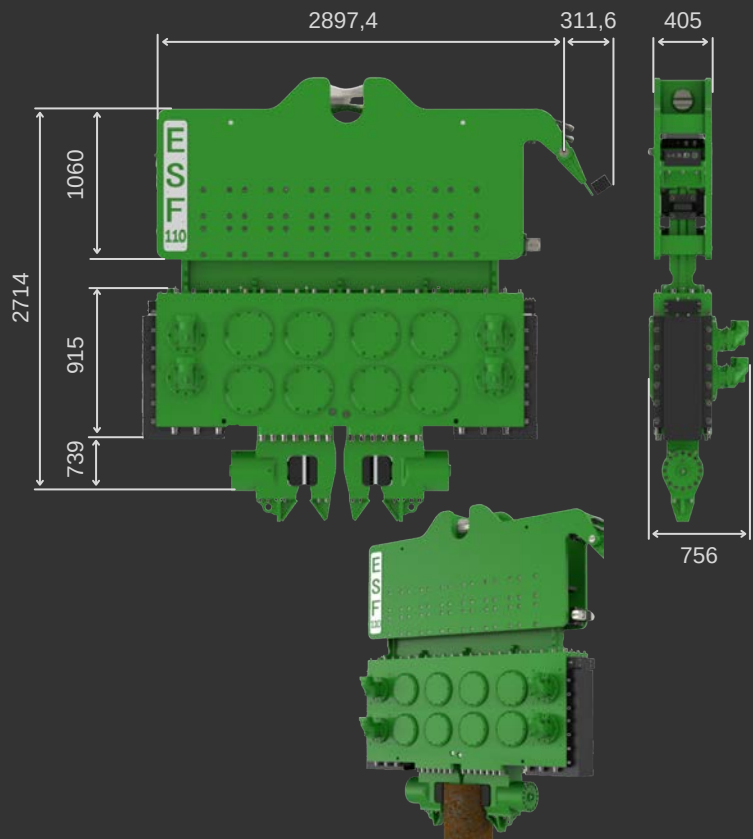
## CRANE MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF 110 is Normal Frequency vibratory hammer with gear box cooling system as standard. As it is Normal Frequency it is operated by PS1000 power pack. The FCM250 sheet pile clamp and 2xPCM150 pipe clamp can be mounted. This model is preferred to drive long sheet piles or steel tubes in seaport or bridge const. projects.

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Centrifugal Force	kN	3088
Eccentric Moment	kgm	110
Speed	rpm	1600
Pulling Force	kN	3000
Total Weight (Incl. Clamp)	kg	9200
Dynamic Weight (Incl. Clamp)	kg	5365
Amplitude	mm	41
Power	kW	550
Displacement	liter/min	1000
Working Pressure	bar	350
Height	mm	2714
Width	mm	756
Length	mm	2897,4



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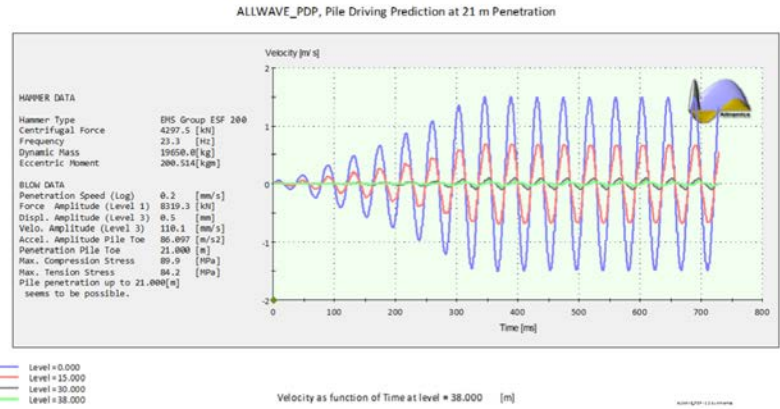


# ESF 200C

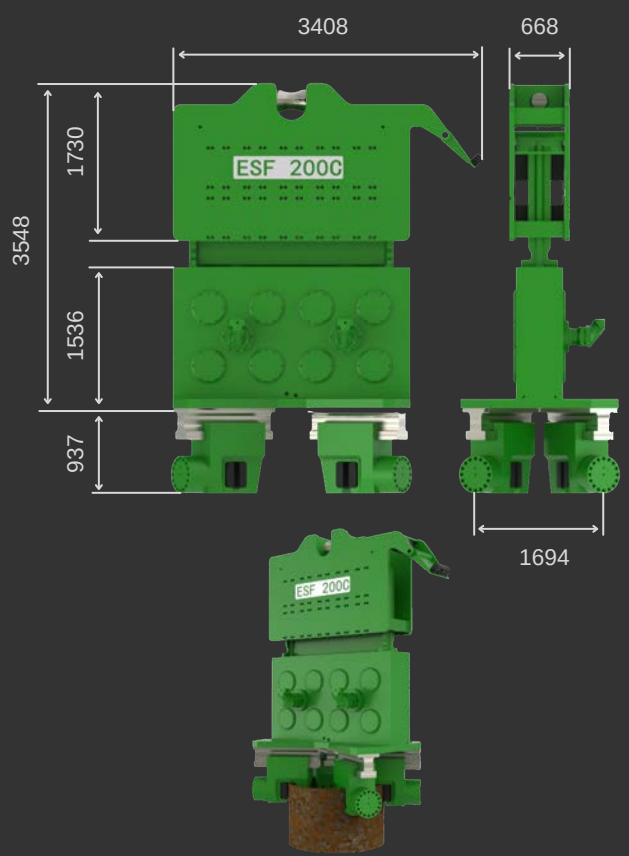
## CRANE MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF 200C is Normal Frequency vibratory hammer with gearbox cooling system as standard. As it is Normal Frequency it is operated by PS1600 power pack. 4xPCM150 pipe clamp to be mounted. This model is preferred to drive long steel tubes in seaport or bridge const. projects. The special design and power of this model especially for Offshore Projects. This model can drive steel tubes with OD up to 2000mm in hard ground formations.

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Centrifugal Force	kN	4540
Eccentric Moment	kgm	200
Speed	rpm	1400
Pulling Force	kN	6000
Total Weight (Incl. Clamp)	kg	19700
Dynamic Weight (Incl. Clamp)	kg	12900
Amplitude	mm	31
Power	kW	1100
Displacement	liter/min	1550
Working Pressure	bar	380
Height	mm	3548
Width	mm	668
Length	mm	3408

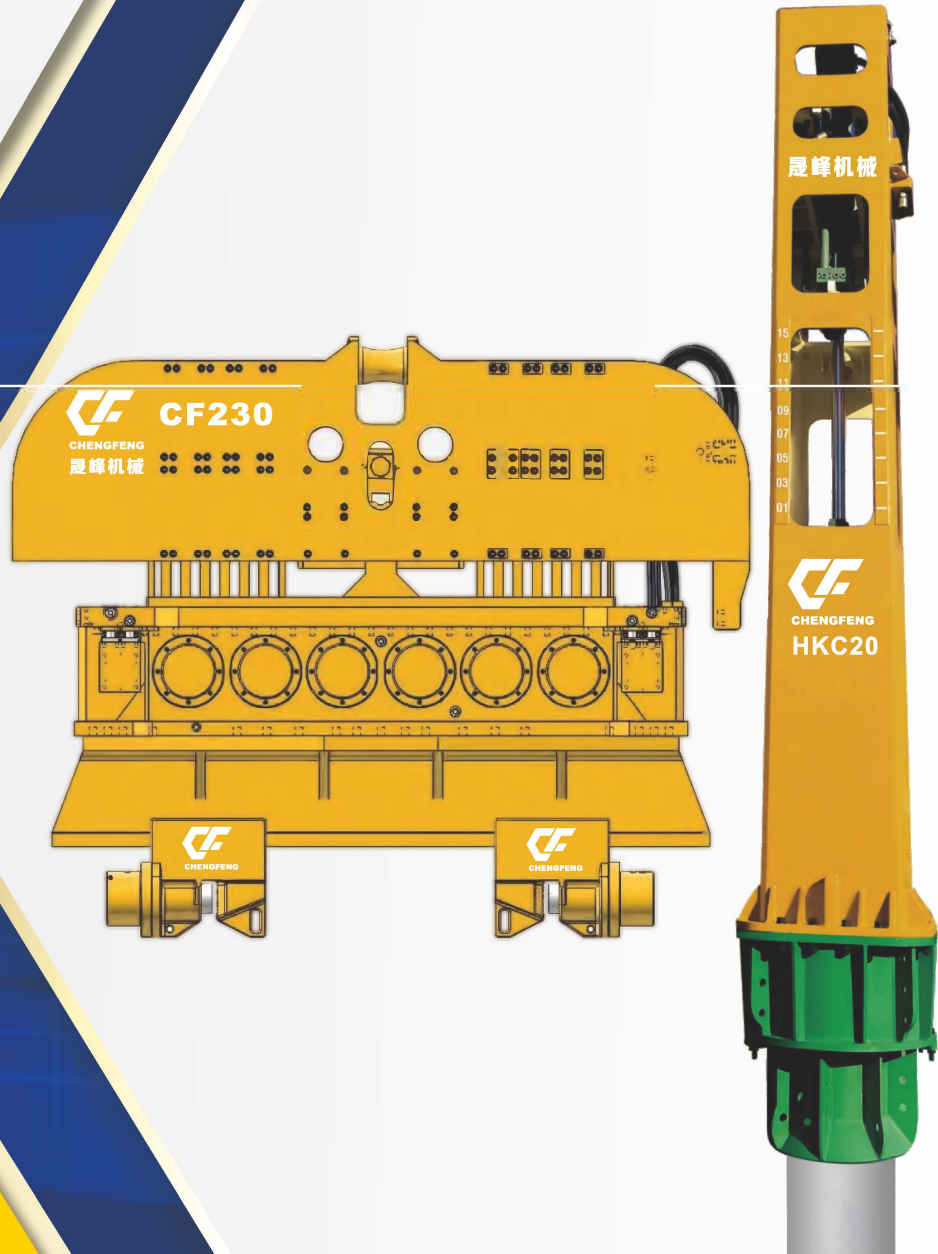


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# PRODUCT CATALOG



## HYDRAULIC IMPACT HAMMER

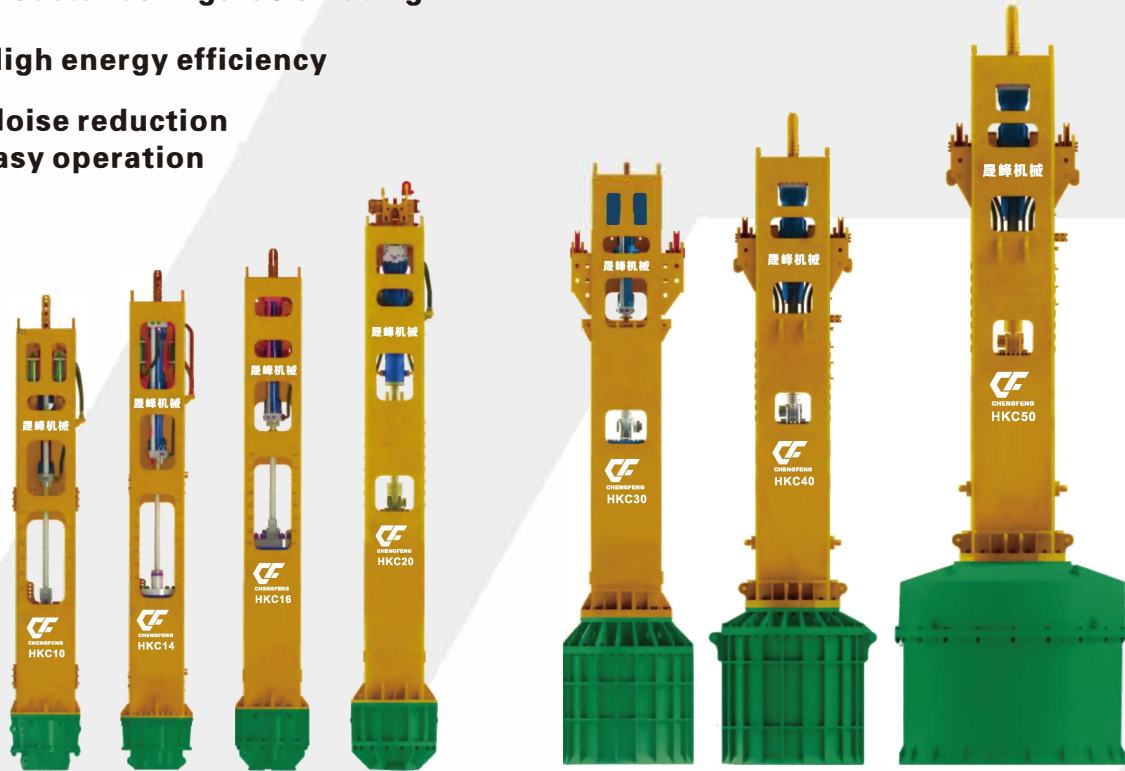
**IAI. hydraulic impact hammer are suitable for the following applications.**

- **Precast concrete piles**
  - **Steel casing piles**
  - **Steel profiles (H and U beams)**
  - **Round piles**
  - **Square piles**
  - **Steel and concrete sheet piles**
  - **Combined sheet pile walls**
  - **Cast-in-situ concrete piles**
- Various sites are applicable**



## Product Features

- Modular configuration design
- High energy efficiency
- Noise reduction
- Easy operation



## Technical Parameter Table

MODEL	UNIT	HKC 4	HKC 5	HKC 8	HKC 10	HKC 12	HKC 14	HKC 16	HKC 18	HKC 20	HKC 25	HKC 30	HKC 35	HKC 40	HKC 50	HKC 60
MAX.STRIKE ENERGY	KN.M	50	65	128	158	188	220	245	280	316	380	468	540	625	760	936
MAX.STROKE OF HAMMER	MM	1200	1200	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
STRIKE FREQUENCY (MAX/MIN)	BPM	90/36	90/36	90/36	90/36	90/36	90/36	90/30	90/30	90/30	90/30	80/30	80/28	80/28	80/28	80/28
RAM WEIGHT	KG	4000	5000	8000	10000	12000	14000	16000	18000	20000	25000	30000	35000	40000	50000	60000
LIFTING HYDRAULIC CYLINDER	SINGLE LIFTING HYDRAULIC CYLINDER															
HEIGHT OF HAMMER (W/O PILE CAP)	MM	4826	5136	6600	7330	7470	7470	7525	7830	8800	8120	8390	10180	10620	11450	9175
HORIZONTAL WIDTH OF HAMMER	MM	885	950	1130	1140	1140	1228	1273	1320	150	1580	1525	2235	2235	2280	2840
C VERTICAL WIDTH OF HAMMER	MM	1340	1275	1385	1390	1380	1460	1550	1580	1680	2070	1745	2795	2795	2795	3475
DISTANCE BETWEEN CENTER OF HAMMER AND GUIDES	MM	696	755	740	745	745	790	835	865	865	1188	942	1555	1555	1555	1850
DISTANCE BETWEEN CENTER OF GUIDES	MM	600	600	600	600	600	600	600	600	600	CUSTOM MADE ACCORDING TO CLIENT'S REQUIREMENT					
HAMMER WEIGHT (W/O PILE CAP)	KG	7100	8290	13100	16720	18500	21600	23950	27100	29800	42600	49925	58000	63100	74900	92200
TRIP GEAR WEIGHT	KG	420	420	610	645	645	645	733	733	733						

**CHENGFENG hydraulic vibratory hammer are suitable for the following applications.**

- **Precast concrete piles**
- **Steel casing piles**
- **Steel profiles (H and U beams)**
- **Round piles**
- **Square piles**
- **Steel and concrete sheet piles**
- **Combined sheet pile walls**
- **Cast-in-situ concrete piles**

**Various sites are applicable**



**房建**  
ESTATE  
CONSTRUCTION



BRIDGE



DOCK

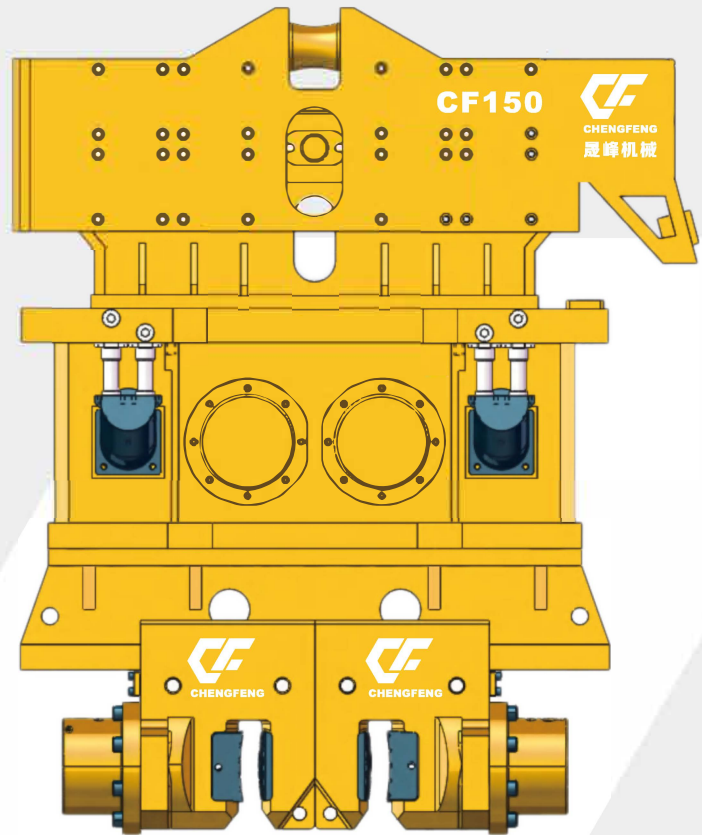


OFFSHORE



## Product Features

- High efficiency
- Environmental protection
- Light weight
- Stable working performance



## Technical Parameter Table

Model	单Unit	HV100	HV150	HV180	HV230	HV300	HV400
Eccentric moment	kg.m	27	32	51	78	140	180
Maxcentrifugal force	KN	780	950	1520	2300	2800	3600
Max frequency	rpm	1650	1650	1650	1650	1500	1500
Max pile pull force	KN	320	450	600	850	120	160
Standard length of hydraulic hose	m	45	45	45	45	45	45
Suitable pile diameter	mm	450-1200	450-1200	580-2000	580-2400	580-2800	580-2800
Overall dimension	LxWxH(cm)	490x45.5x213	203x45.5x213	280x69.2x260	380x69.2x272	385x65x205	360x85x256
Hammer weight	T	3.4	4	7.8	9.2	10.5	15.1

## POWER PACK STATION

power packs station have been designed and manufactured to offer the driving source for hydraulic impact hammer ,hydraulic vibratory hammer

Equipped with high quality hydraulic pump and valves ensures reliability,durability,efficiency.

High cooling capacity with oversized radiator ensures no overheat problems.



## Technical Parameter Table

Model		325P	450P	550P	800P	915P	1070P
Engine(Euro III Emission Standard)		QSL8.9-C325	QSZ13-C450	QSZ13-C550	WP17-770	6M33-915	12M33-1070
Engine power	KW	239	335	405	565	670	785
Rated pressure	bar	300	300	300	300	300	300
Max flow	L/min	380	520	760	1040	1200	1400
Pile locking pressure	bar	310	310	310	310	310	310
Capacity of hydraulic oil tank	L	580	580	800	1050	1300	1300
Overall dimension	LxWxH(cm)	420x180x230	420x180x230	470x180x230	470x200x230	580x260x290	580x260x290
Net weight	T	6.5	7.4	8.5	9.5	11	12.5

## JB SERIES WALKING PILE FRAME

### Product Features

- **Compact structure and easy to disassemble**
- **Easy operation and stable performance**
- **Low grounding pressure can adapt to complex construction conditions**



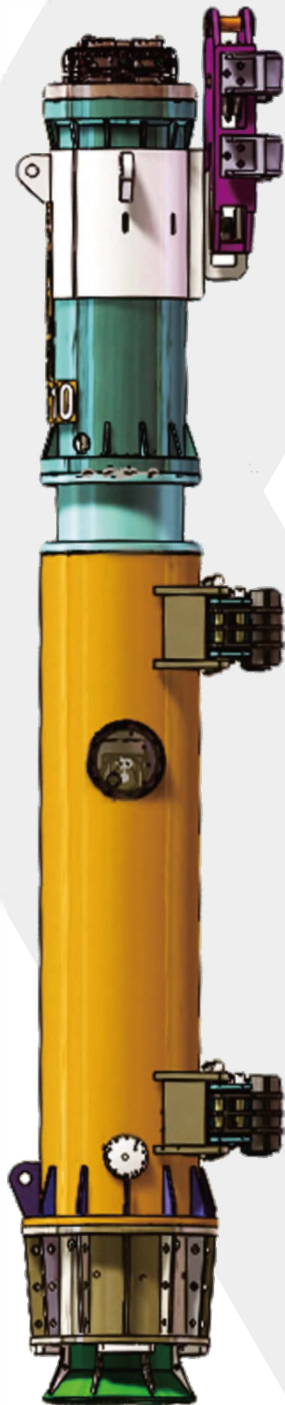


## Technical Parameter Table

PROJECT	MODEL	UNIT	JB120	JB138
Leader length		m	25.5	25.5
Leader guide		mm	600*Φ102	600*Φ102
Leader inclinations			前 Front 2° back 5°	前 Front 2° back 5°
Max gradient of working surface		°	2	2
Handle type main winch 1 set	Max strength	m/min	80	80
	Rolling speed		0-30	0-30
	Rope	KW	24NAT6*19W+NF1770-160M	24NAT6*19W+NF1770-160M
	Motor power	KN	37KW-6/650 Reduction box	45kw-6/650 Reduction box
Electric winch for pile lift 2 sets	Max strength	m/min	30	50
	Rolling speed		0-30	0-30
	Rope		16NAT6*19W+NF1770-115M	16NAT6*19W+NF1770-115M
	Motor power	KW	15KW-4/400 Reduction box	22KW-4 motor with 500 reduction box
Electric winch for pile draw 2 sets	Max strength	KN	0-30	30
	Rolling speed	m/min	18NAT6*19W+NF1770-115M	0-30
	Rope		15KW-6/400 Reduction box	18NAT6*19W+NF1770-115M
	Motor power	KW	360	15KW-6/400 Reduction box
Platform rotating angle			Φ180/Φ140-1100	360
Moving mechanism system	Platform leg oil cylinder	mm	Φ125/Φ70-3000	Φ220/Φ180-1100
	Long bridge cylinder and distance	mm	3000	Φ125/Φ90-2000
	Long bridge step pace	mm	Φ125/Φ70-850	3000
	Short bridge cylinder and distance	mm	800	Φ140/Φ90-7-800
	Short bridge step pace	mm	0.022	800
	Long bridge loading Pressure	MPa	0.018	0.022
	Short bridge loading Pressure	Mpa		0.018
Supporting mechanism	SCREW CONNECTION	mm	0-300mm) Fix connection (0-300mm is optional)	0-300mm) Fix connection (0-300mm is optional)
Hydraulic system	Motor power	KW	22	30
	Pressure	Mpa	25	30
Net weight		t	48	25
Overall size(LxWxH)		m	13.0m*9.0m*25.5m	63
Transportation size (LxWxH)		m	13.0*3.6*2.7 Suitable for HKC14, HKC16	14.0m*9.0m*27.5m
Adapted hydraulic impact hammer model				14.0*3.6*2.7 Suitable for HKC18,HKC20

**More products are be provided**

**DOUBLE-ACTING  
HYDRAULIC IMPACT HAMMER**



**DOUBLE-ACTING  
MINING HAMMER**



**More products are be provided**

**WALKING PILE MACHINE**

**CRAWLER PILE MACHINE**



## Job Sites



