



***ESF Series vibratory hammers ,
making sheet piling quick and easy...***

Crane Mounted Vibratory Pile Drivers.

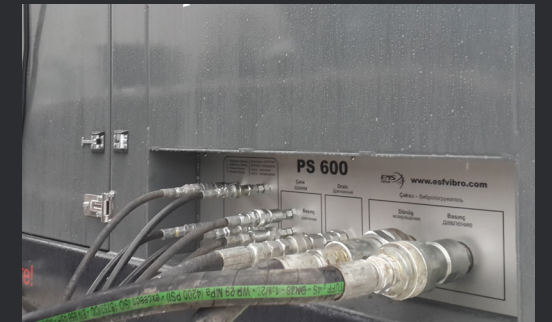
FREE

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.



ESF 14

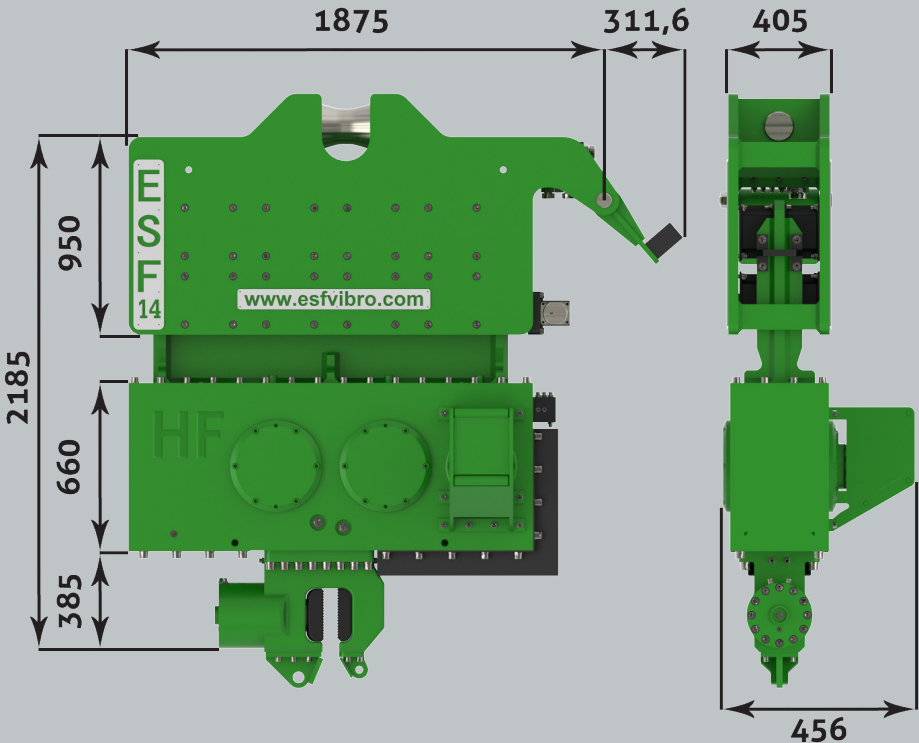
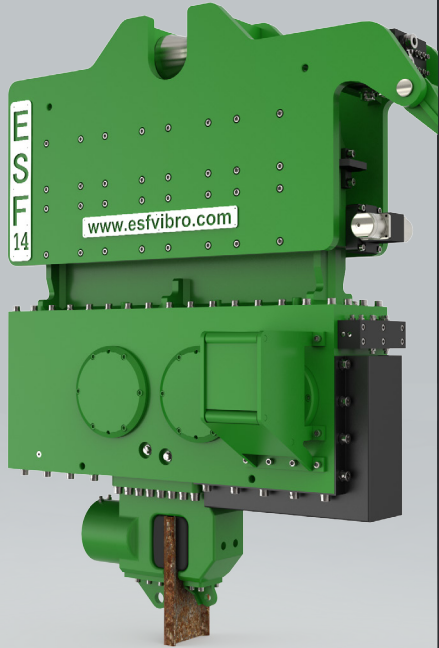
Crane Mounted Hydraulic Vibratory Hammer

ESF 14 crane mounted high frequency vibratory hammer with gear box 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 (excl.Clamp)	kg	3750
Dync. Weight(excl.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





ESF 20

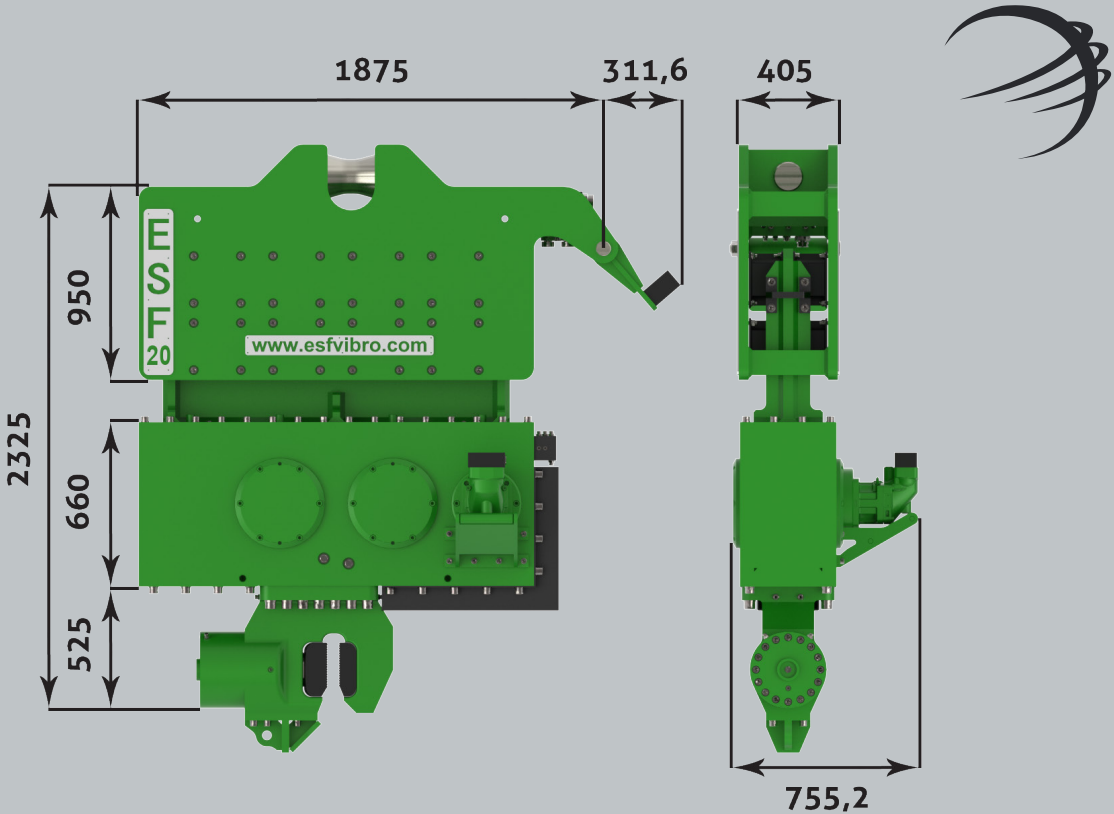
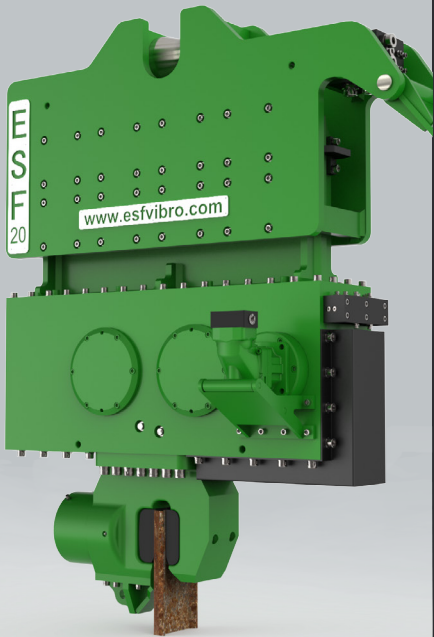
Crane Mounted Hydraulic Vibratory Hammer

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 (exl.Clamp)	kg	3750
Dync. Weight (exl.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



ESF 23

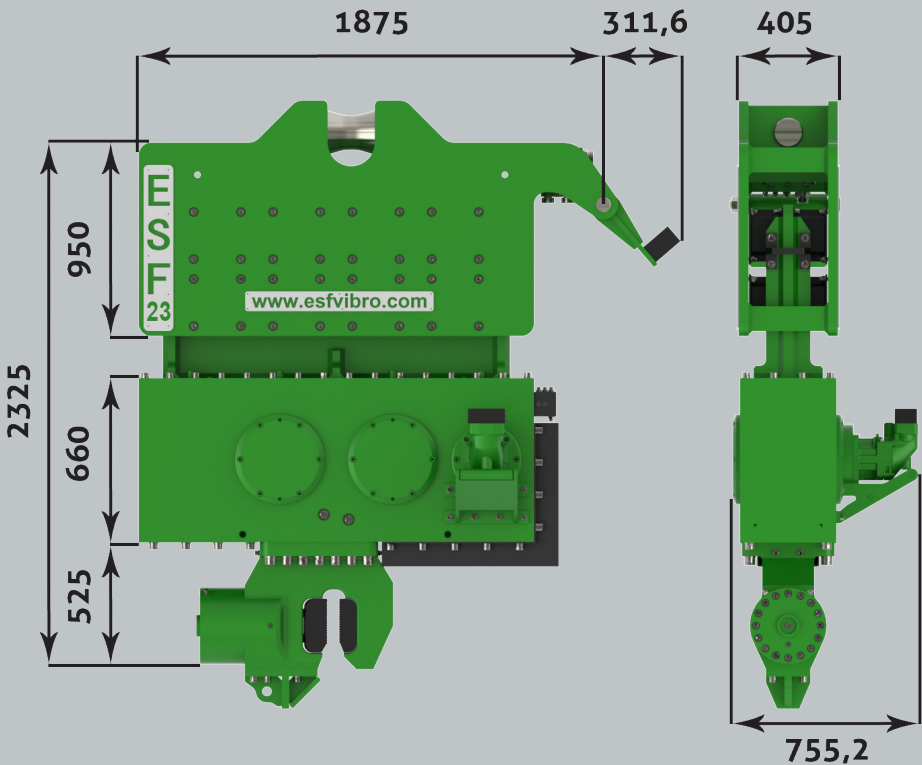
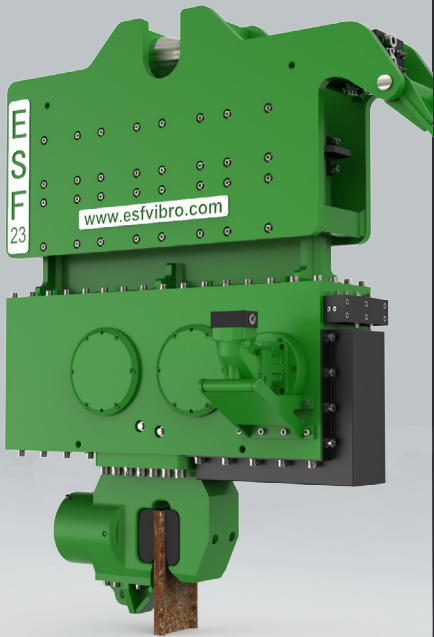
Crane Mounted Hydraulic Vibratory Hammer

ESF 23 is Normal Frequency vibratory hammer with gear box cooling system as standard. As it is Normal Frequency it is operated by P5350 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



ESF 55

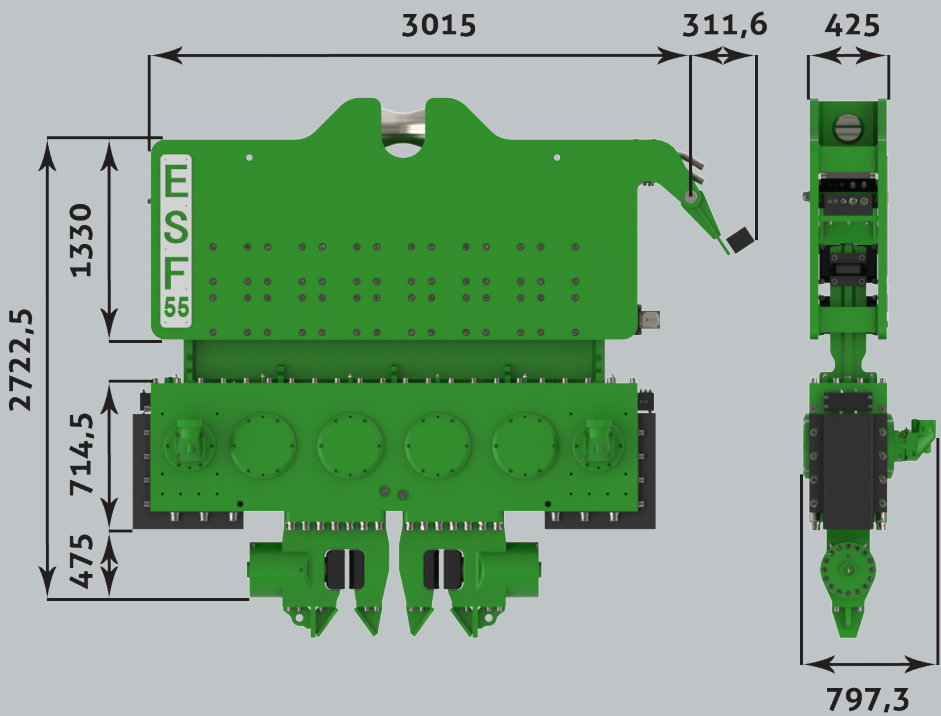
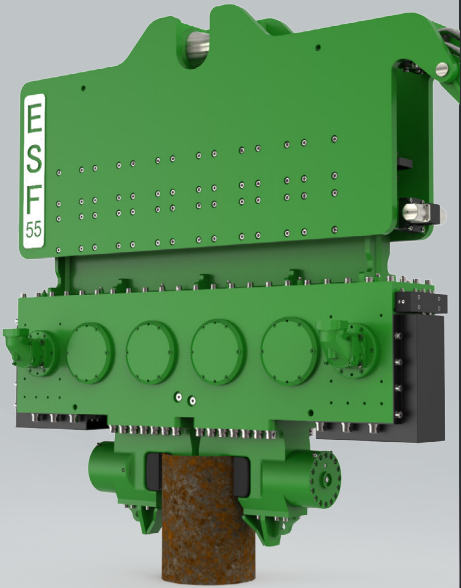
Crane Mounted Hydraulic Vibratory Hammer

ESF 55 is Normal Frequency vibratory hammer with gear box cooling system as standard. As it is Normal Frequency it is operated by P5600 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 (excl.Clamp)	kg	5800
Dynamic Weight (excl.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



ESF 55C

GROUP

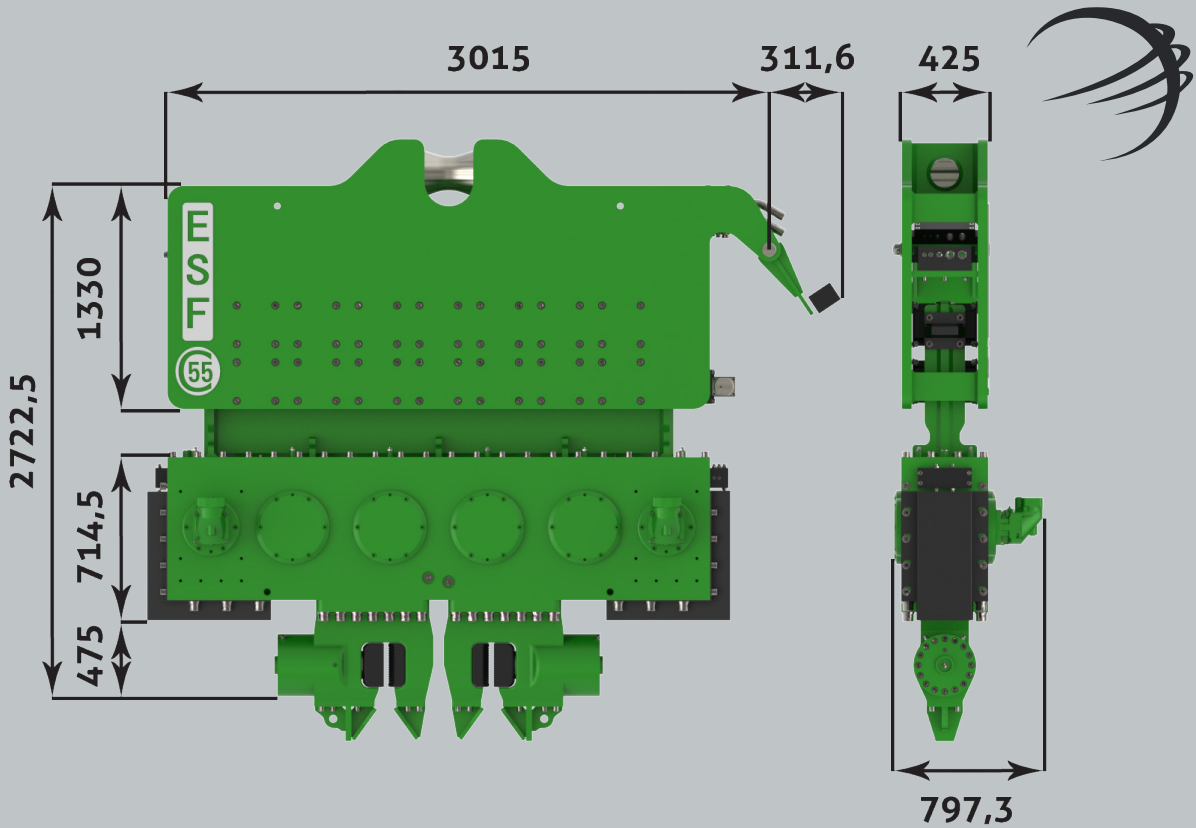
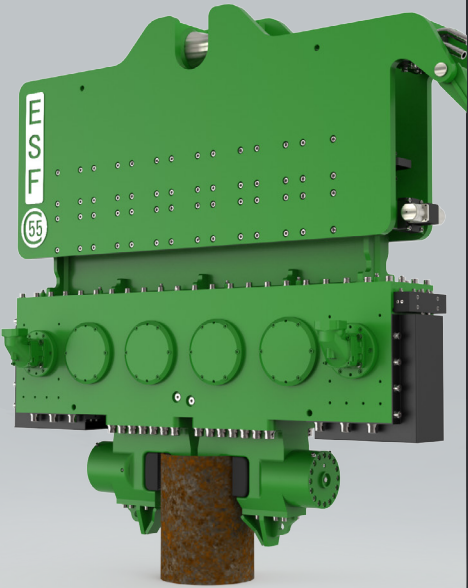
Crane Mounted
Hydraulic Vibratory Hammer

ESF 55C is High Frequency vibratory hammer with gear box 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 (excl.Clamp)	kg	8100
Dynamic Weight (excl.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



ESF 88

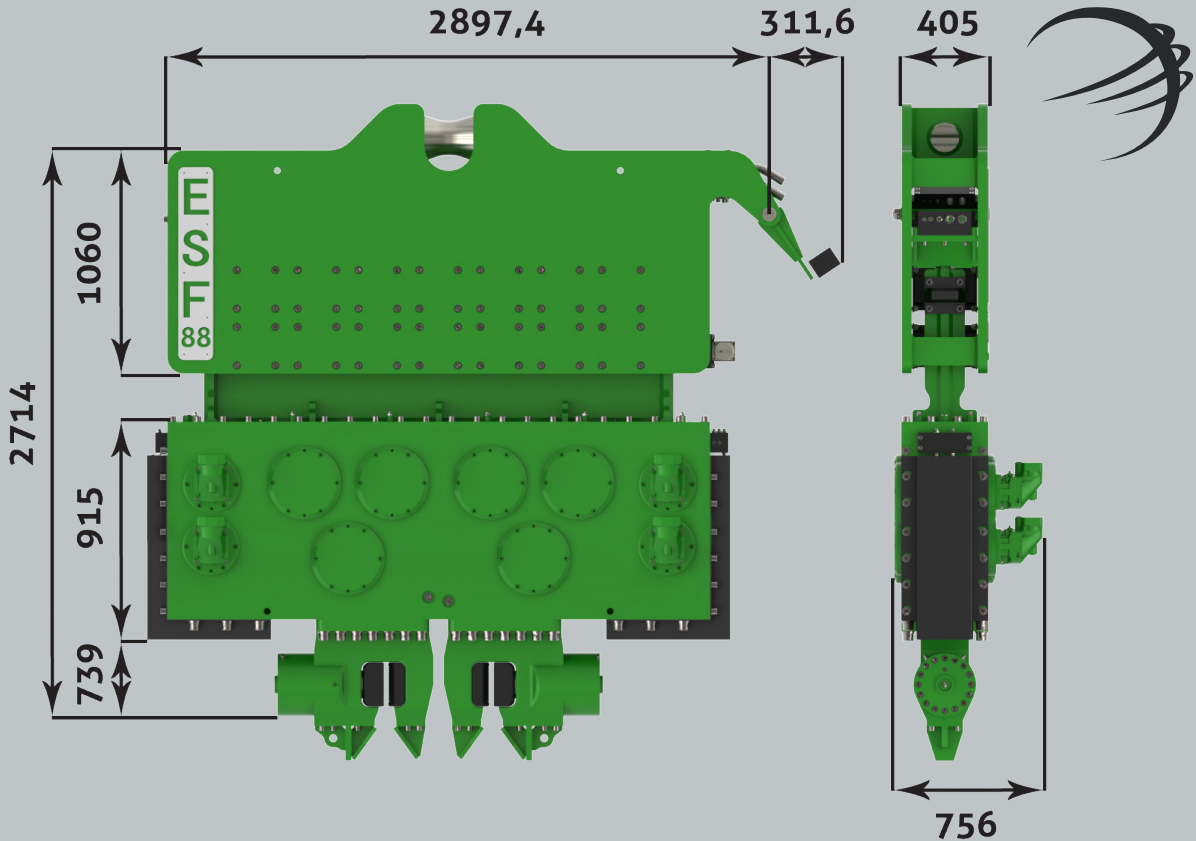
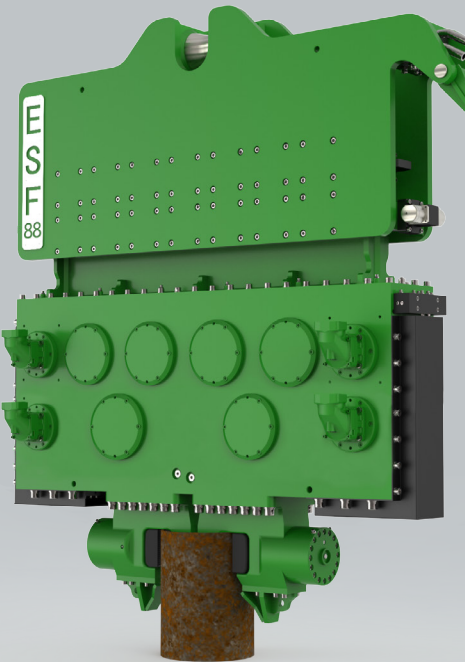
Crane Mounted Hydraulic Vibratory Hammer

ESF 88 is Normal Frequency vibratory hammer with gear box cooling system as standard. As it is Normal Frequency it is operated by P5800 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 (excl.Clamp)	kg	7850
Dynamic Weight (excl.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



ESF 110

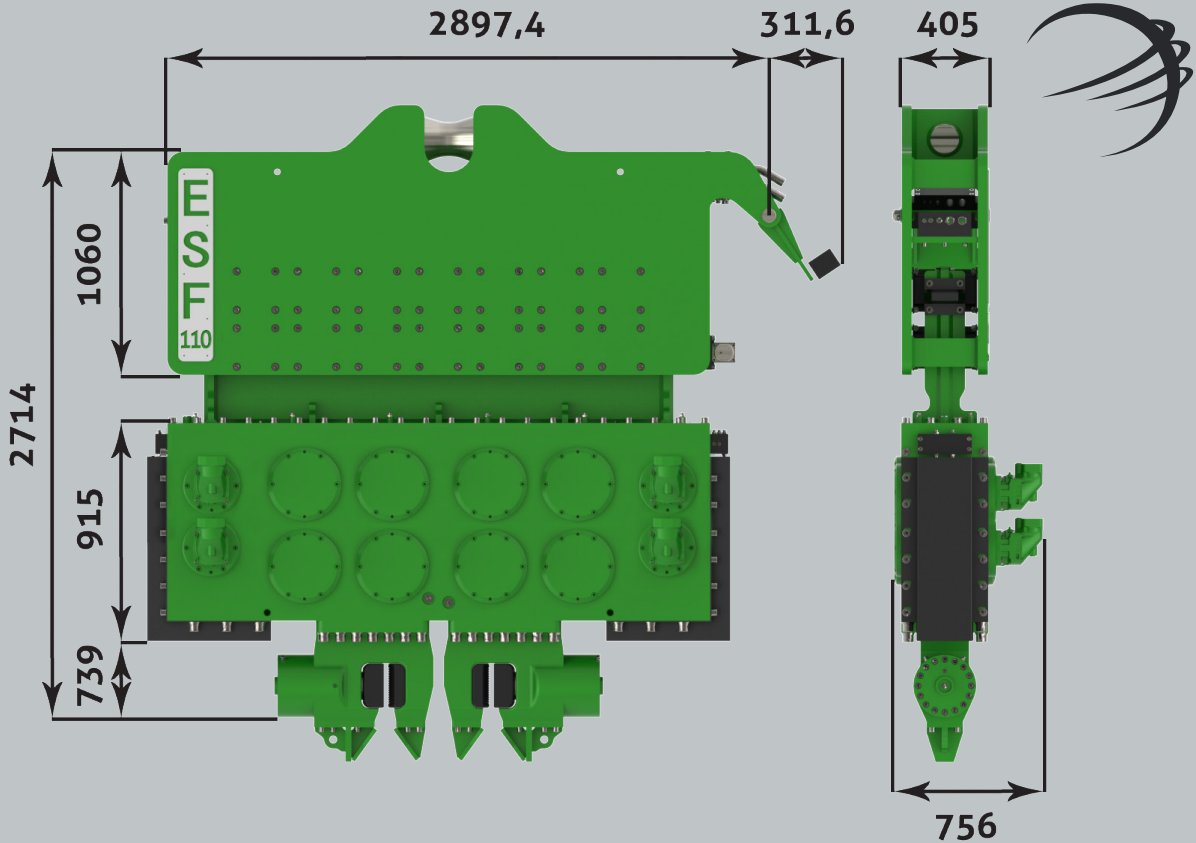
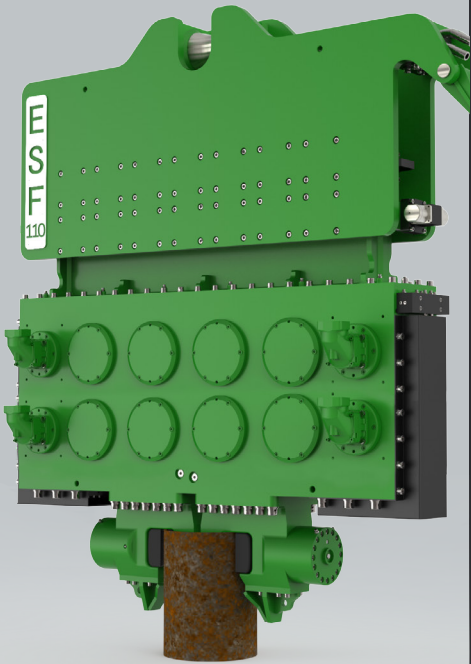
Crane Mounted Hydraulic Vibratory Hammer

ESF 110 is Normal Frequency vibratory hammer with gear box cooling system as standard. As it is Normal Frequency it is operated by P51000 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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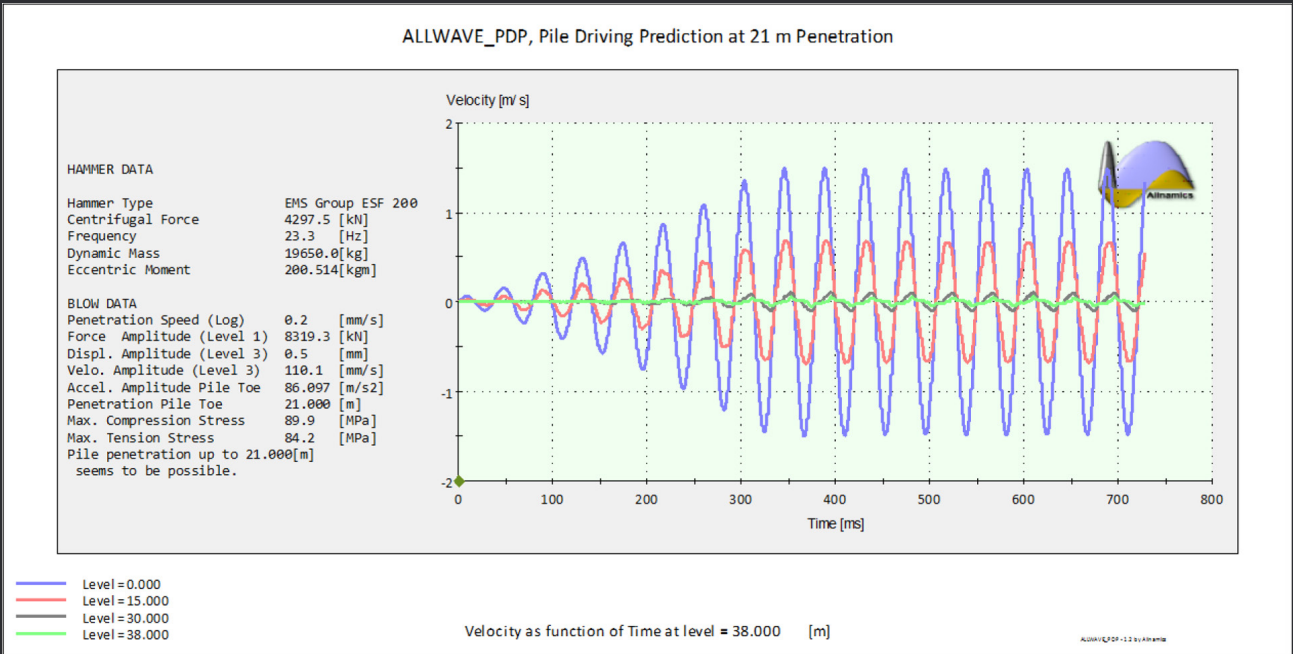
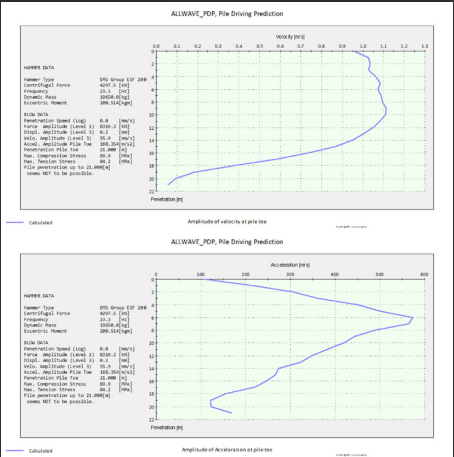
Centrifugal Force	kN	3088
Eccentric Moment	kgm	110
Speed	rpm	1600
Pulling Force	kN	3000
Total Weight (excl.Clamp)	kg	9200
Dynamic Weight (excl.Clamp)	kg	5365
Amplitude	mm	41
Power	kW	550
Displacement	liter/min	1000
Working Pressure	bar	350
Height	mm	2714
Width	mm	756
Length	mm	2897,4



ESF 200C

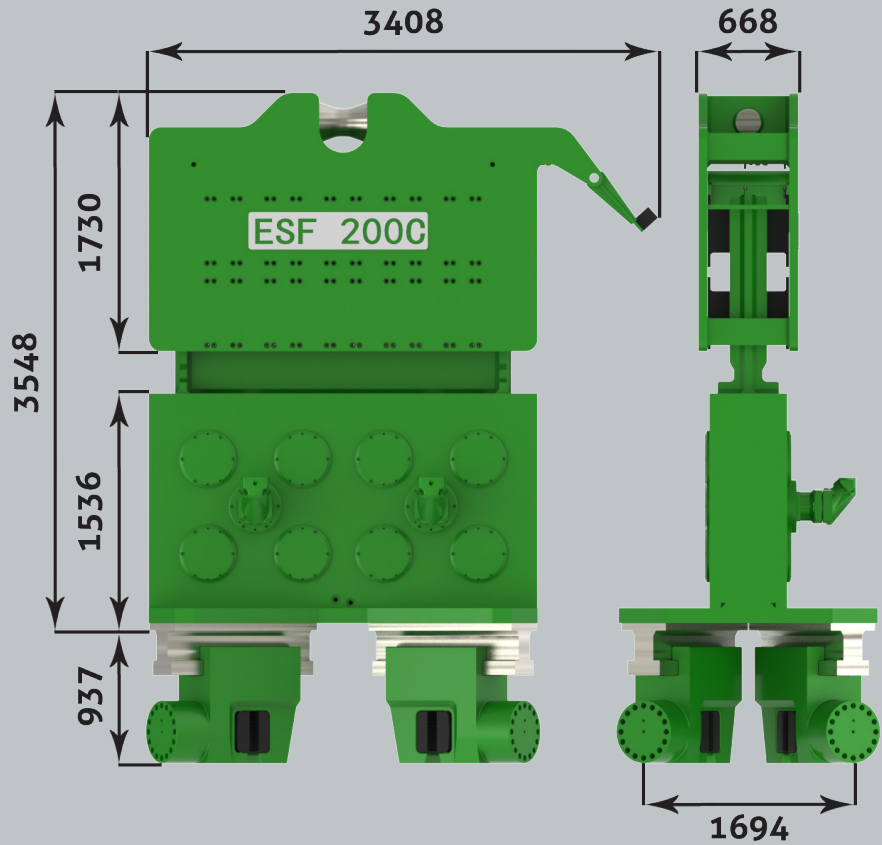
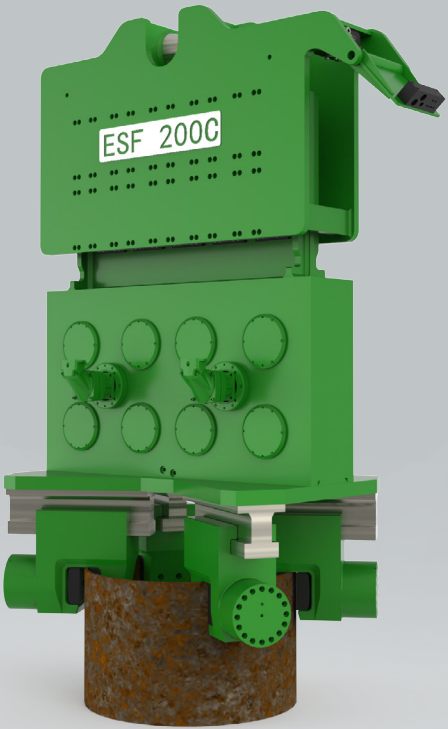
CRANE MOUNTED
HYDRAULIC VIBRATORY HAMMER

ESF 200C is Normal Frequency vibratory hammer with gear box 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 Off-Shore 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 (excl.Clamp)	kg	19700
Dynamic Weight (excl.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



Power Units

PS Series

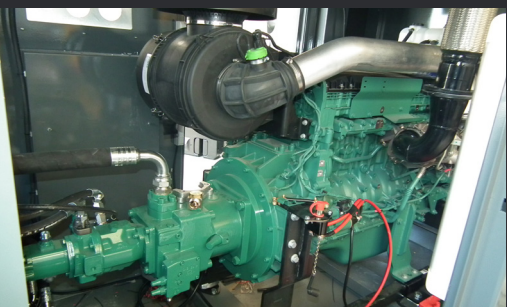
Hydraulic Power Packs

Our PS Series Power Packs not only for vibratory hammers but also for many different industrial applications like vessels and dam projects. Our engineering team always design our PS Series power packs according to the transport dimensions internationally recognised.





We manufacture hydraulic PS series power packs. The advantage of our our hydraulic power packs is that we install open - circuit lines inside the cabin. The open - circuit line is always better to make quick repair and reducing the cost of repairs when compared with close - circuit systems.

We apply special isolation walls inside the cabins to prevent hot or cold weather conditions bad effects.



We always use top-brand quality pumps and diesel engines in our power pack systems like Rexroth and Volvo Penta diesel engines. We have also options to install economic Ford diesel engines and Kawasaki pumps.



PS 120	kW	73
PS 300	kW	220
PS 350	kW	260
PS 400	kW	280
PS 600	kW	400
PS 800	kW	560
PS 1000	kW	2x540



The main cabin body is very strong to make transport many times in construction sites.



The standard PS series Power Packs have cable-remote control systems as standard 15 mt. We offer also wireless remote control systems as optional. Each units have operator emergency stop buttons to help operator when needed.

All of the PS series Power Packs has cooling systems both for hydraulic oil and gear box cooling. The user friendly control panel in all PS Series Power Packs helps operator to understand and check all system status clearly.



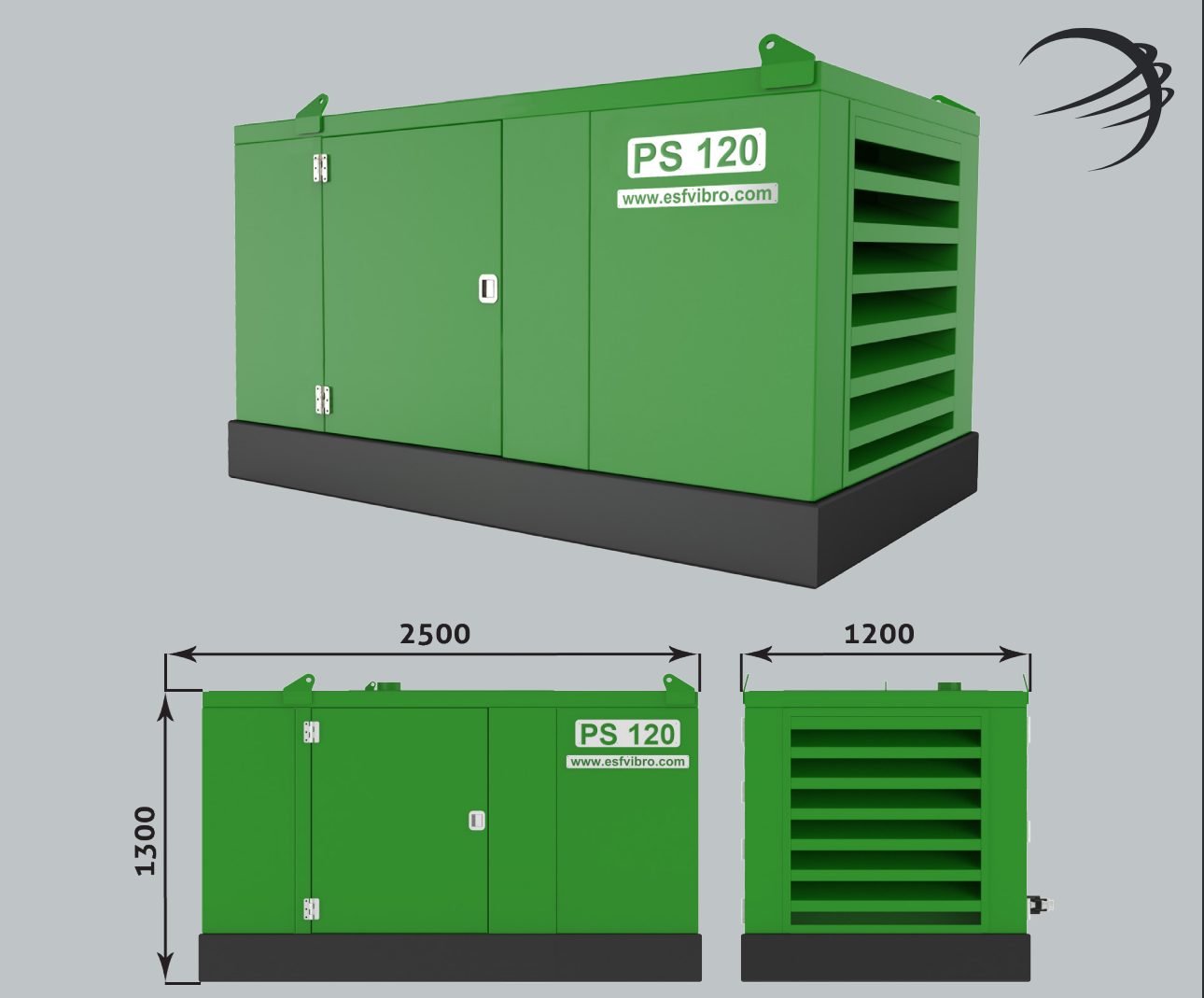
PS 120

Power Pack

PS120 is specially designed to operate small size vibratory hammers like ESF1-2-3-4 to drive vinyl PVC sheet piles or small posts. By means of this small size power pack, the need for excavator is eliminated.



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Power Pack (For Vibro Hammer)		ESF 1-2-3-4
Diesel Engine		Optional
Max. Working Pressure	bar	300
Max. Flow	l/min	120
Pump		Optional
Fueltank	lt	200
Hydraulic Tank	lt	300
Weight	kg	1400
Length	mm	2500
Width	mm	1200
Height	mm	1300

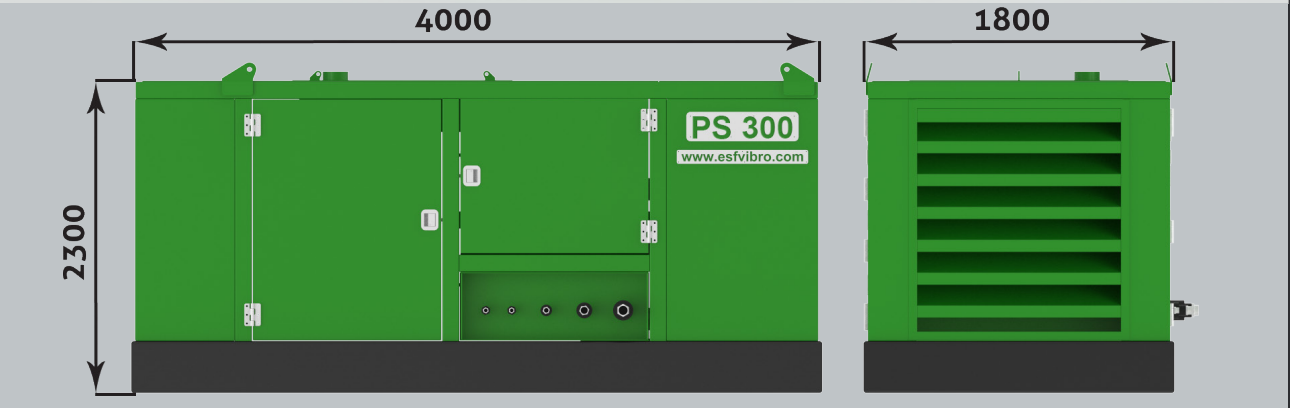
PS 300

Power Pack

PS300 Power Pack is designed and manufactured to operate crane hanging ESF 12-20-23 kgm vibratory hammers which are normal frequency.



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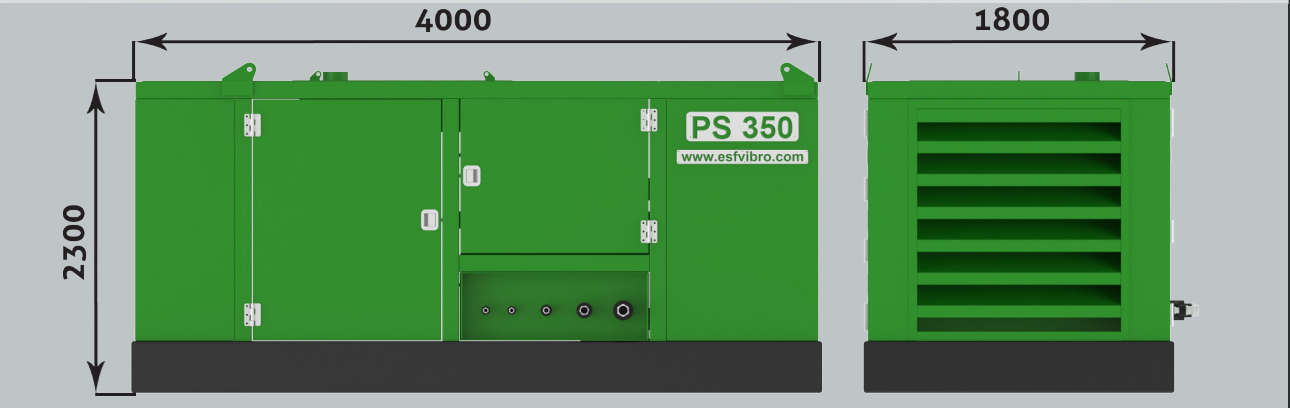


Power Pack (For Vibro Hammer)		ESF 12-20-23
Diesel Engine		Optional
Max. Working Pressure	bar	350
Max. Flow	l/min	300
Pump		Optional
Fueltank	lt	600
Hydraulic Tank	lt	800
Weight	kg	4200
Length	mm	4000
Width	mm	1800
Height	mm	2300

PS 350

Power Pack

PS350 is designed and manufactured for high-frequency ESF vibratory hammers.



Power Pack (For Vibro Hammer)		ESF 14-20-23
Diesel Engine		Optional
Max. Working Pressure	bar	350
Max. Flow	l/min	350
Pump		Optional
Fueltank	lt	600
Hydraulic Tank	lt	800
Weight	kg	4200
Length	mm	4000
Width	mm	1800
Height	mm	2300

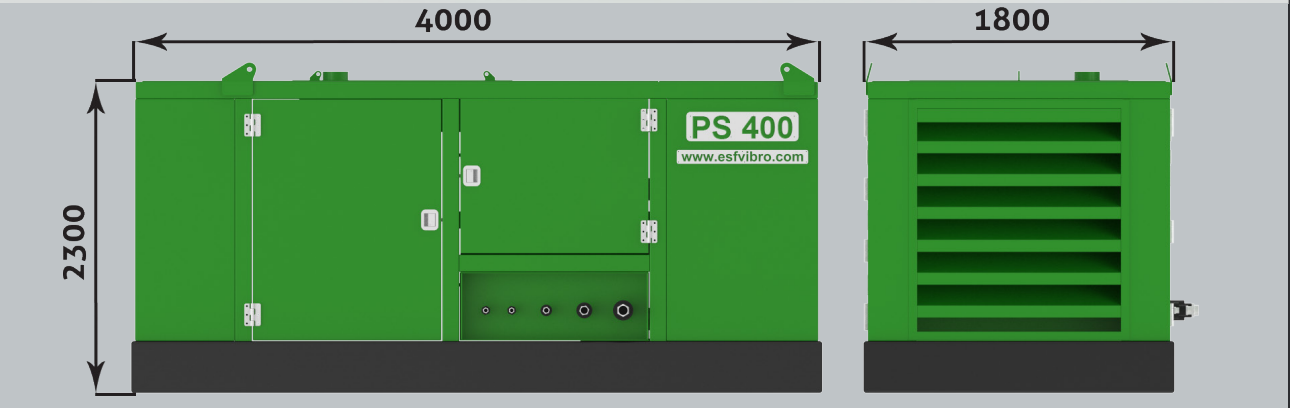
PS 400

Power Pack

PS 400 is designed and manufactured to operate ESF 30 size Normal Frequency Vibratory Hammer. This size power pack is optimum size.



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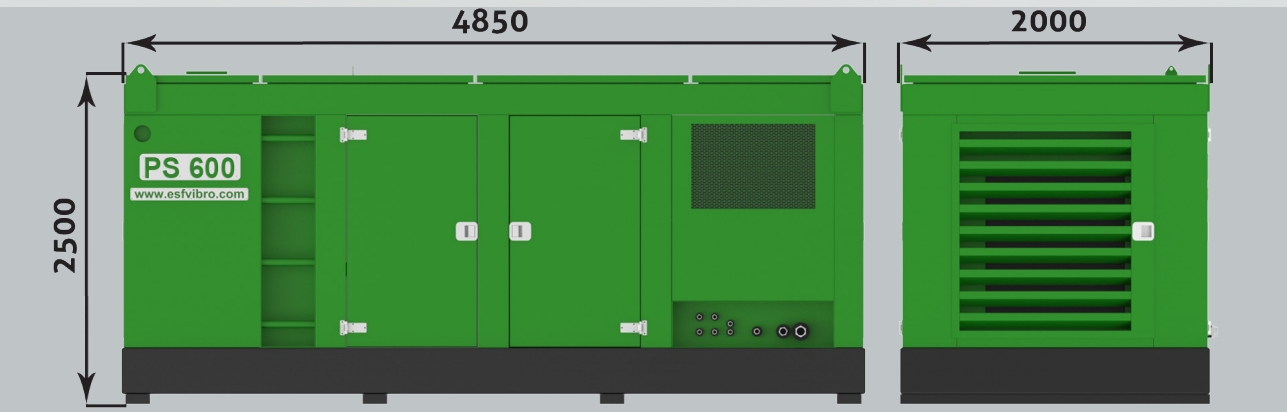


Power Pack (For Vibro Hammer)		ESF 30-33
Diesel Engine		Optional
Max. Working Pressure	bar	350
Max. Flow	l/min	400
Pump		Optional
Fueltank	lt	660
Hydraulic Tank	lt	950
Weight	kg	5600
Length	mm	4000
Width	mm	1800
Height	mm	2300

PS 600

Power Pack

PS 600 is designed and manufactured to operate ESF 55 size vibratory hammer. This power pack is capable to supply 600lt /min . oil flow @ 300 bar pressure.

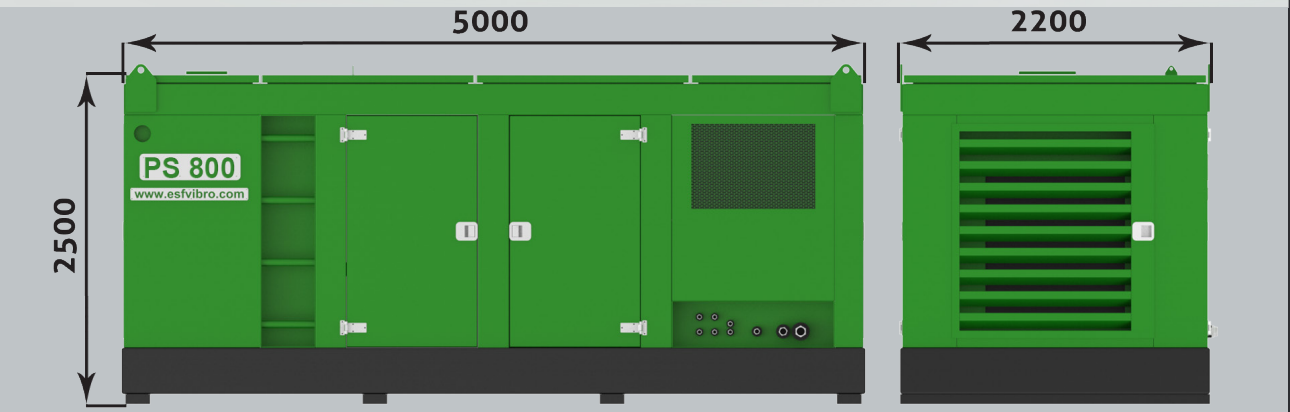
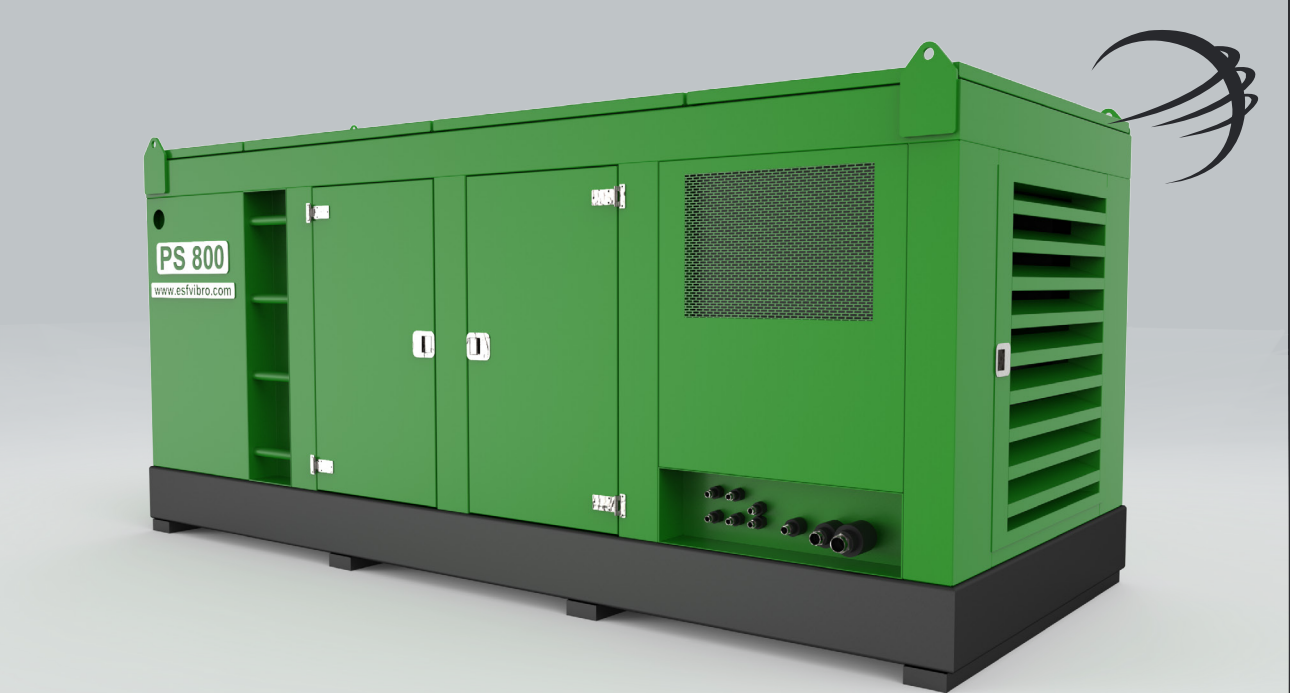


Power Pack (For Vibro Hammer)		ESF 55
Diesel Engine		Optional
Max. Working Pressure	bar	350
Max. Flow	l/min	600
Pump		Optional
Fueltank	lt	660
Hydraulic Tank	lt	1400
Weight	kg	7790
Length	mm	4850
Width	mm	2000
Height	mm	2500

PS 800

Power Pack

PS 800 is designed and manufactured to operate ESF 88 vibratory hammer. This power pack is capable to supply 800 lt/min.oil flow @ 350 bar pressure.



Power Pack (For Vibro Hammer)	ESF 88
Diesel Engine	Optional
Max. Working Pressure	bar350
Max. Flow	l/min800
Pump	Optional
Fueltank	lt1200
Hydraulic Tank	lt2450
Weight	kg10400
Length	mm5000
Width	mm2200
Height	mm2500

PS 1000



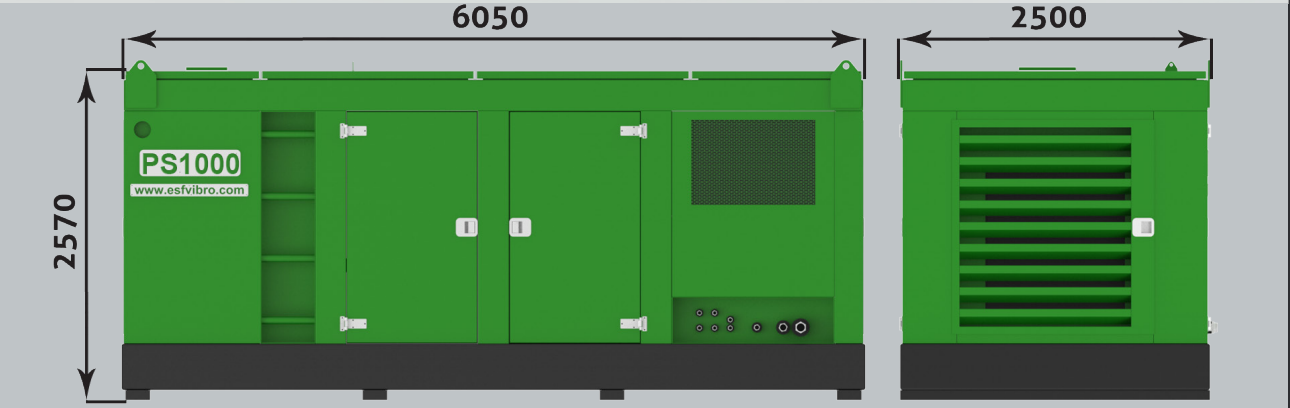
Power Pack

PS1000 is designed and manufactured to operate ESF110 vibratory hammer. This power pack is capable to supply 1000 lt/min.oil flow @ 350 bar pressure.

To operate ESF200 size Vibratory Hammer 2xPS1000 is used.



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Power Pack (For Vibro Hammer)		ESF 110
Diesel Engine		Optional
Max. Working Pressure	bar	350
Max. Flow	l/min	1000
Pump		Optional
Fueltank	lt	1300
Hydraulic Tank	lt	2600
Weight	kg	1200
Length	mm	6050
Width	mm	2500
Height	mm	2570

Clamps For any configuration Pile.

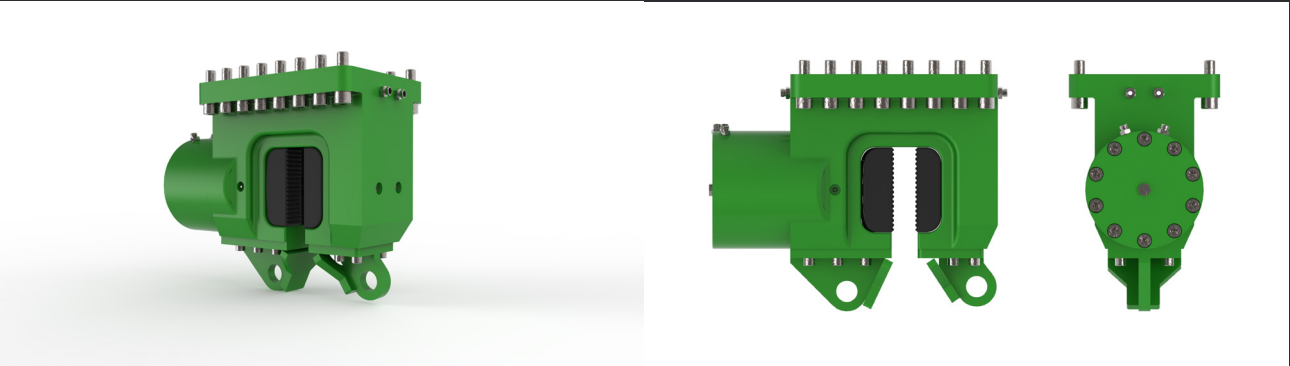
CLAMPS

FCM & PCM Series Clamps

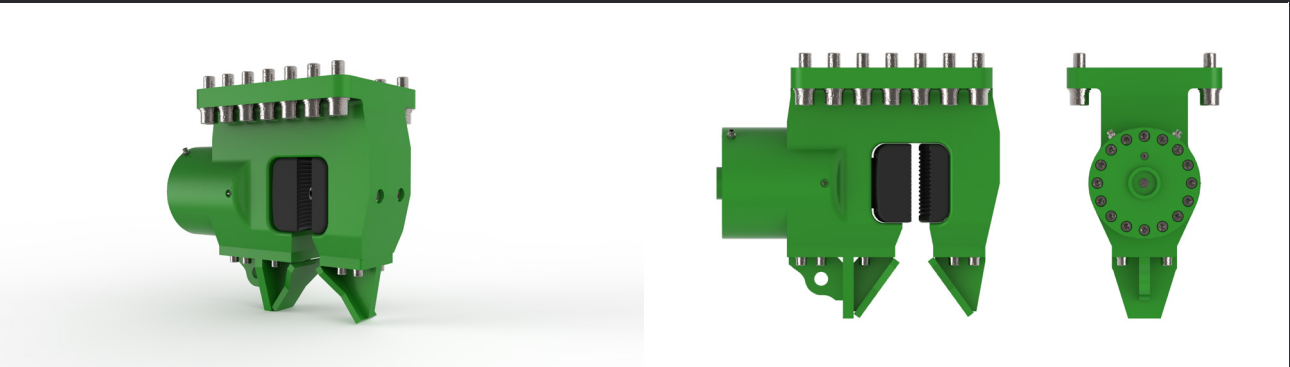
We manufacture the clamps out of solid steels not to let happen any crack during application. FCM and PCM series clamps are specially designed for ESF Series Vibratory Hammers on the other hand, we can also manufacture clamps for any other brand vibratory hammers.



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FCM 5	5 tons clamp	18 mm Mouth	Suitable for ESF 03
FCM 15	15 tons clamp	20 mm Mouth	Suitable for ESF 1
FCM 30	30 tons clamp	28 mm Mouth	Suitable for ESF 2-3-4
FCM 60	60 tons clamp	40 mm Mouth	Suitable for ESF 6
FCM 75	75 tons clamp	40 mm Mouth	Suitable for ESF 7
FCM 90	90 tons clamp	55 mm Mouth	Suitable for ESF 8-12-14
FCM 100	100 tons clamp	45 mm Mouth	Suitable for ESF 20-23



PCM 40	40 tons clamp	With Radius Clamp Shoes	Suitable for ESF 20-23
PCM 80	80 tons clamp	With Radius Clamp Shoes	Suitable for ESF 20-23
PCM 100	100 tons clamp	With Radius Clamp Shoes	Suitable for ESF 55

Tension Bar

From Ø 600 mm to 3000 mm
Suitable for ESF 20-23-55-88-110

