

FREE

Free Hanging Crane Mounted Hydraulic Vibratory Hammers

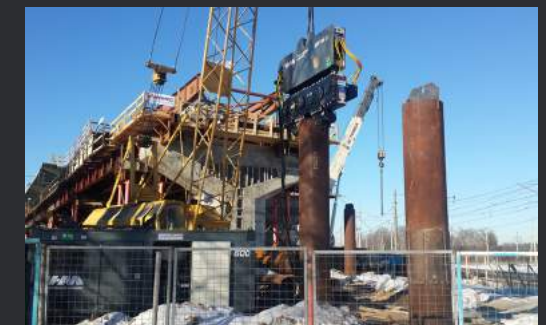
Crane mounted vibratory hammers are designed for long sheet pile or long steel tubes driving projects where excavator booms are not long enough. For instance, it is not possible to drive 25 meter or longer sheet piles by excavator mounted type vibratory hammers.



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.



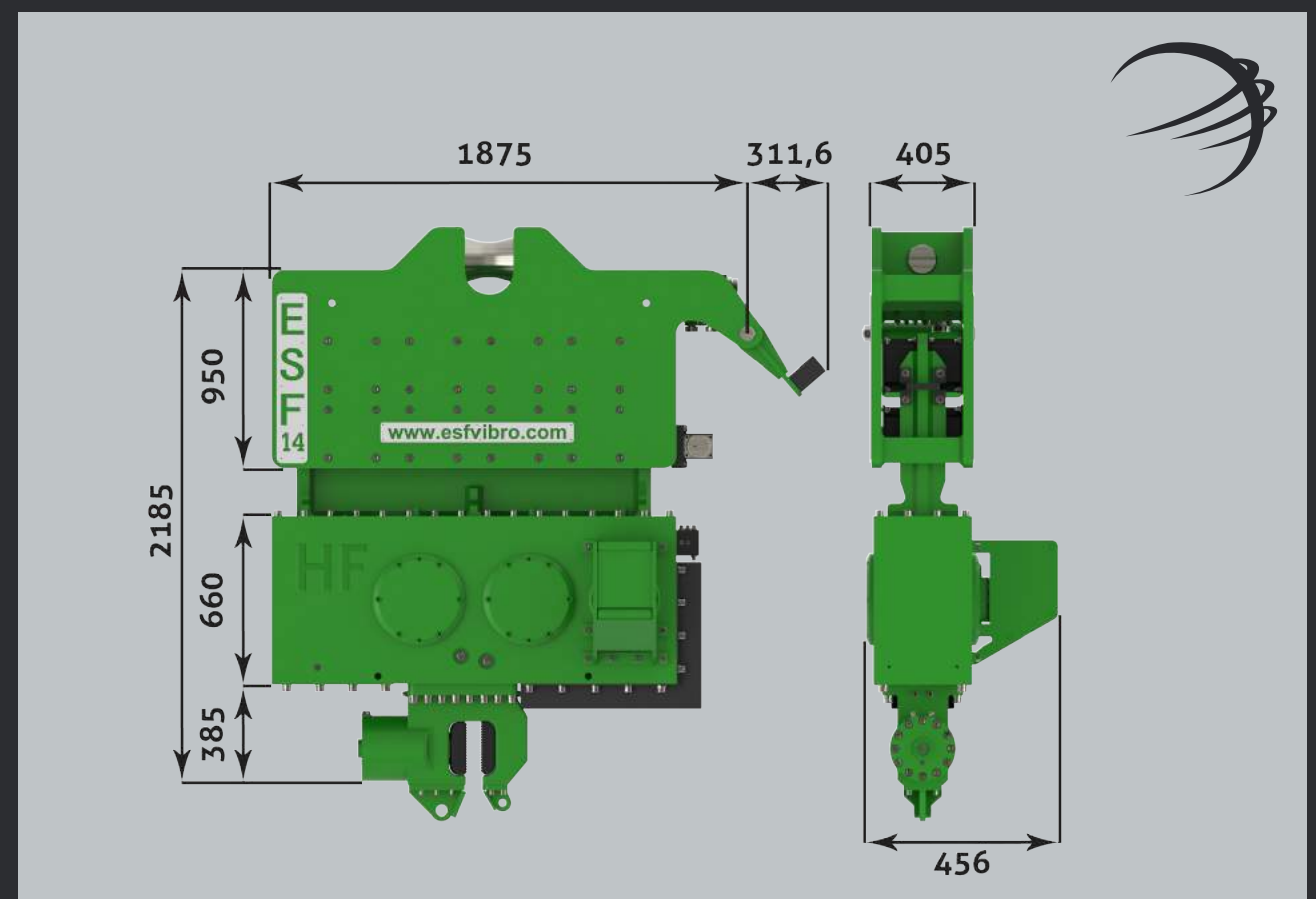
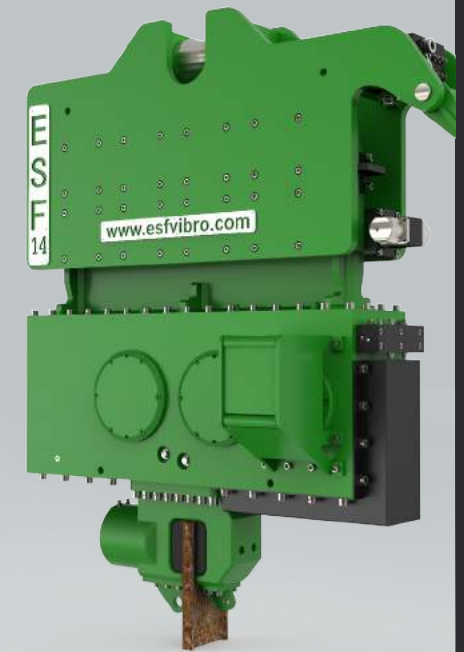
ESF 14



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.

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



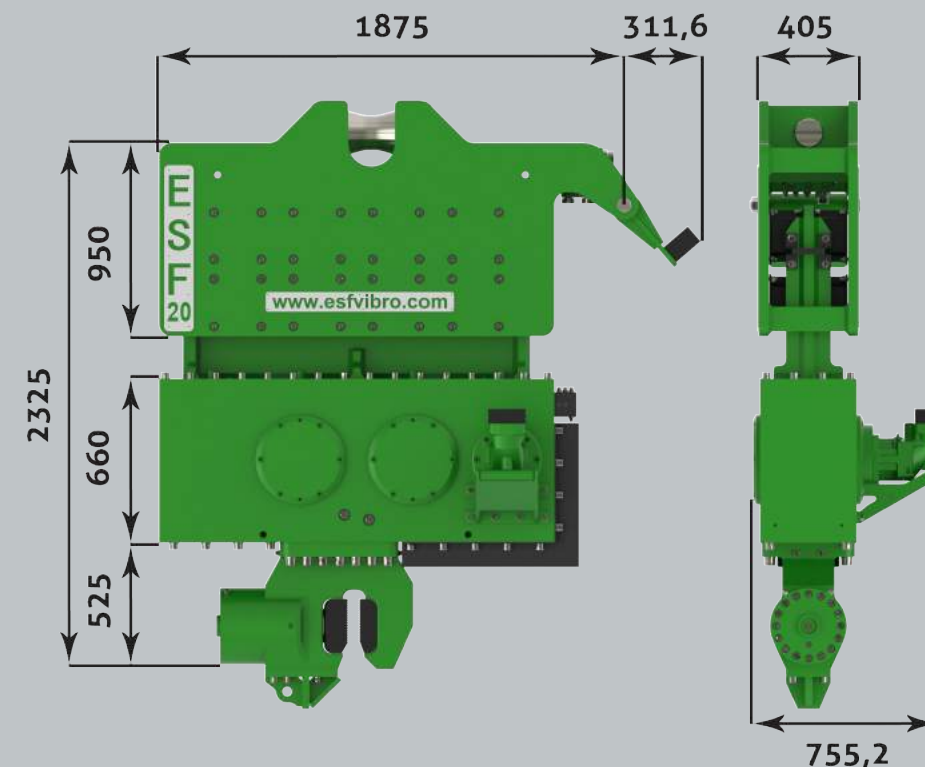
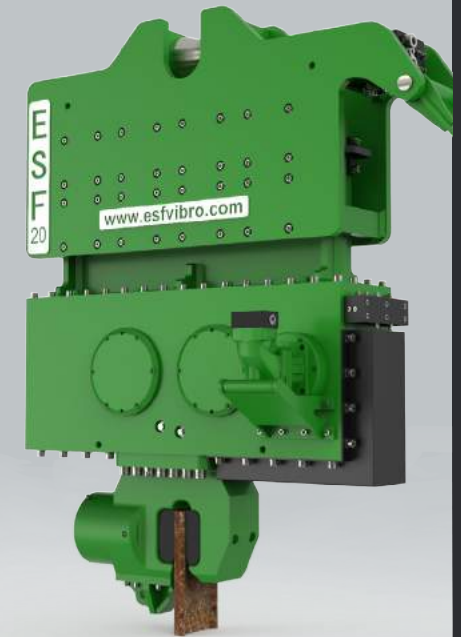
ESF 20

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.



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



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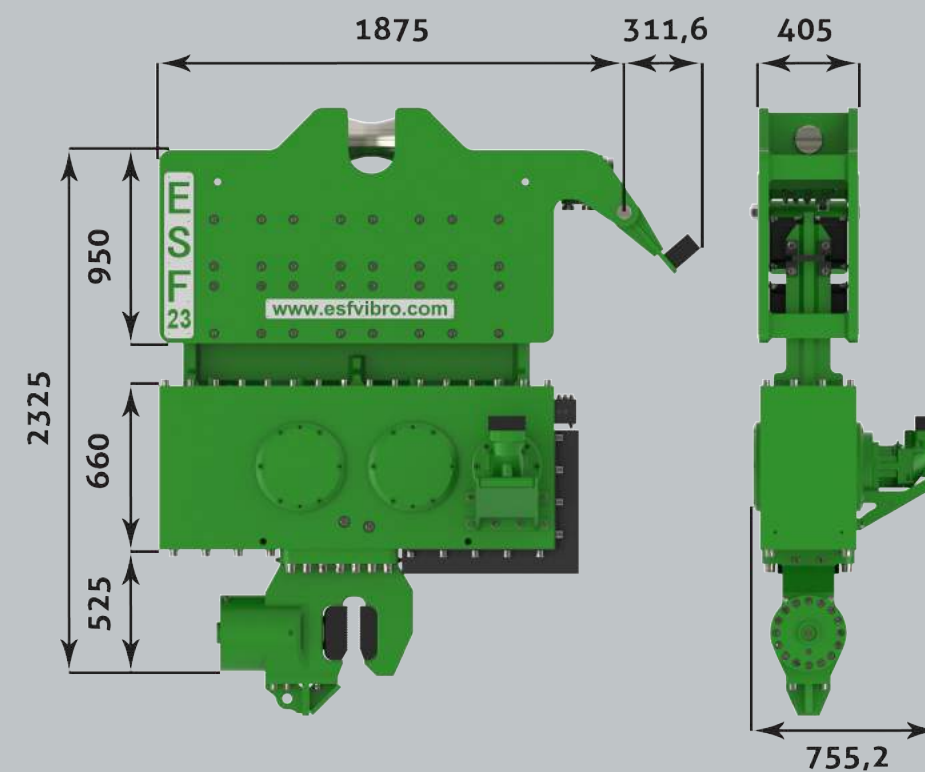
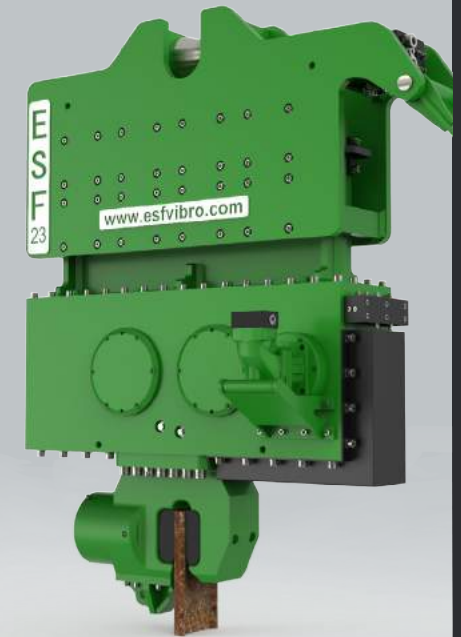
ESF 23

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 P5350 power pack. The FCM100 sheet pile clamp and 2xPCM60 pipe clamp can be mounted.



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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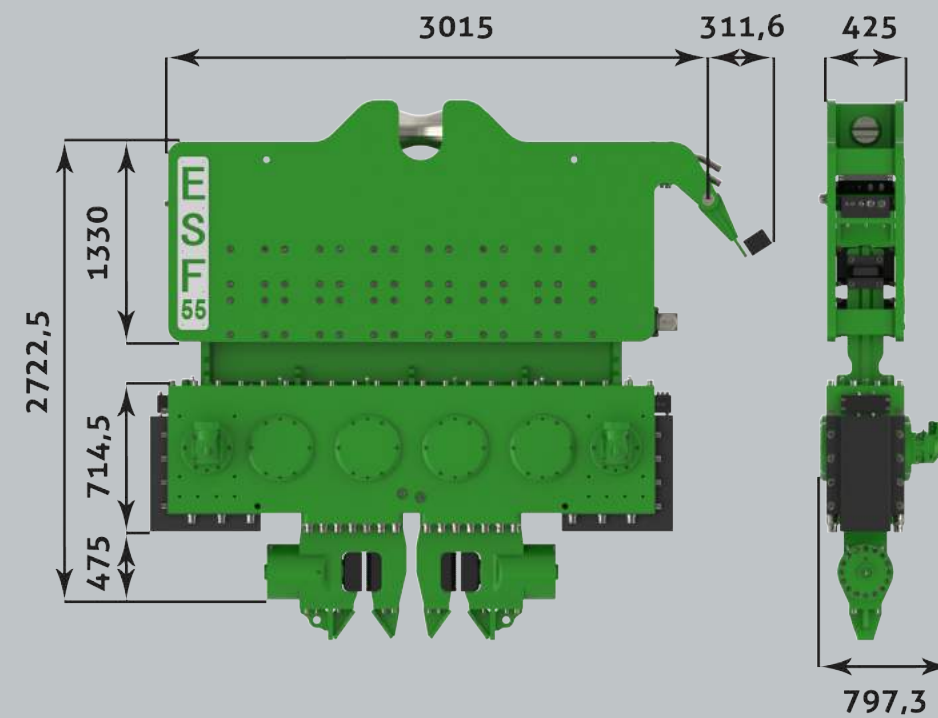
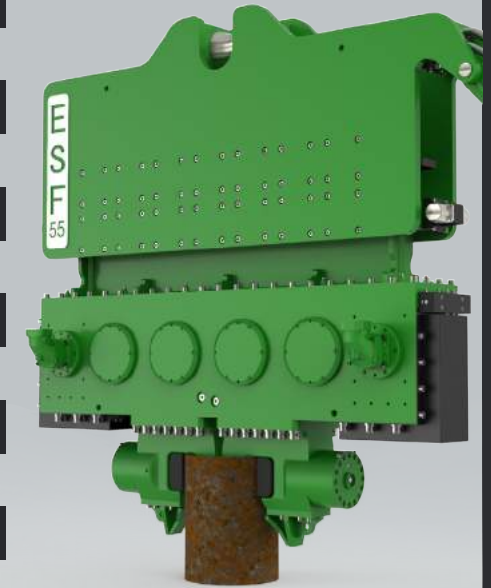
ESF 55



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 P5600 power pack. The FCM180 sheet pile clamp and 2xPCM100 pipe clamp can be mounted.

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



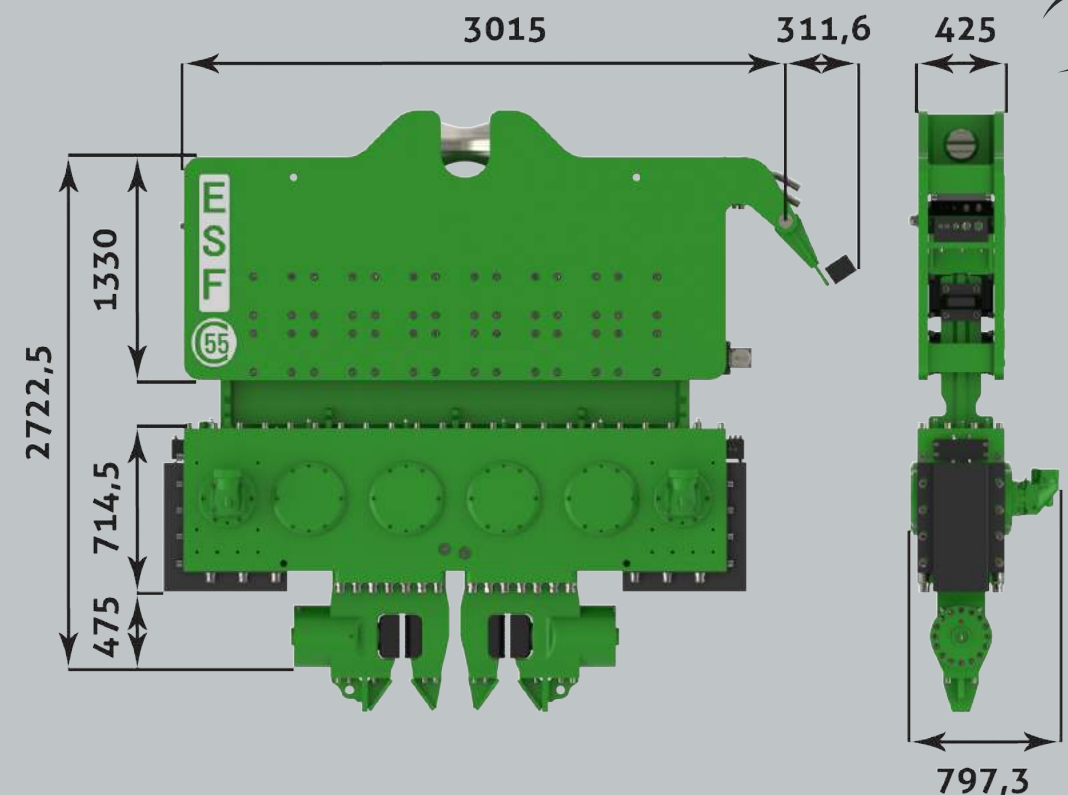
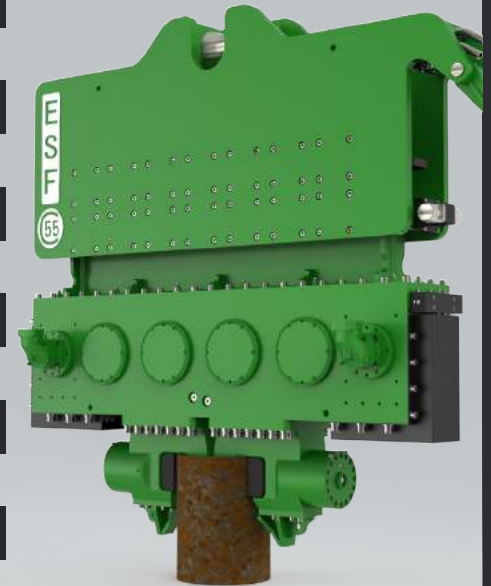
ESF 55C

ESF 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 P5600 power pack. The FCM180 sheet pile clamp and 2xPCM100 pipe clamp can be mounted. This model is specially designed for hard-clay ground formations.

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



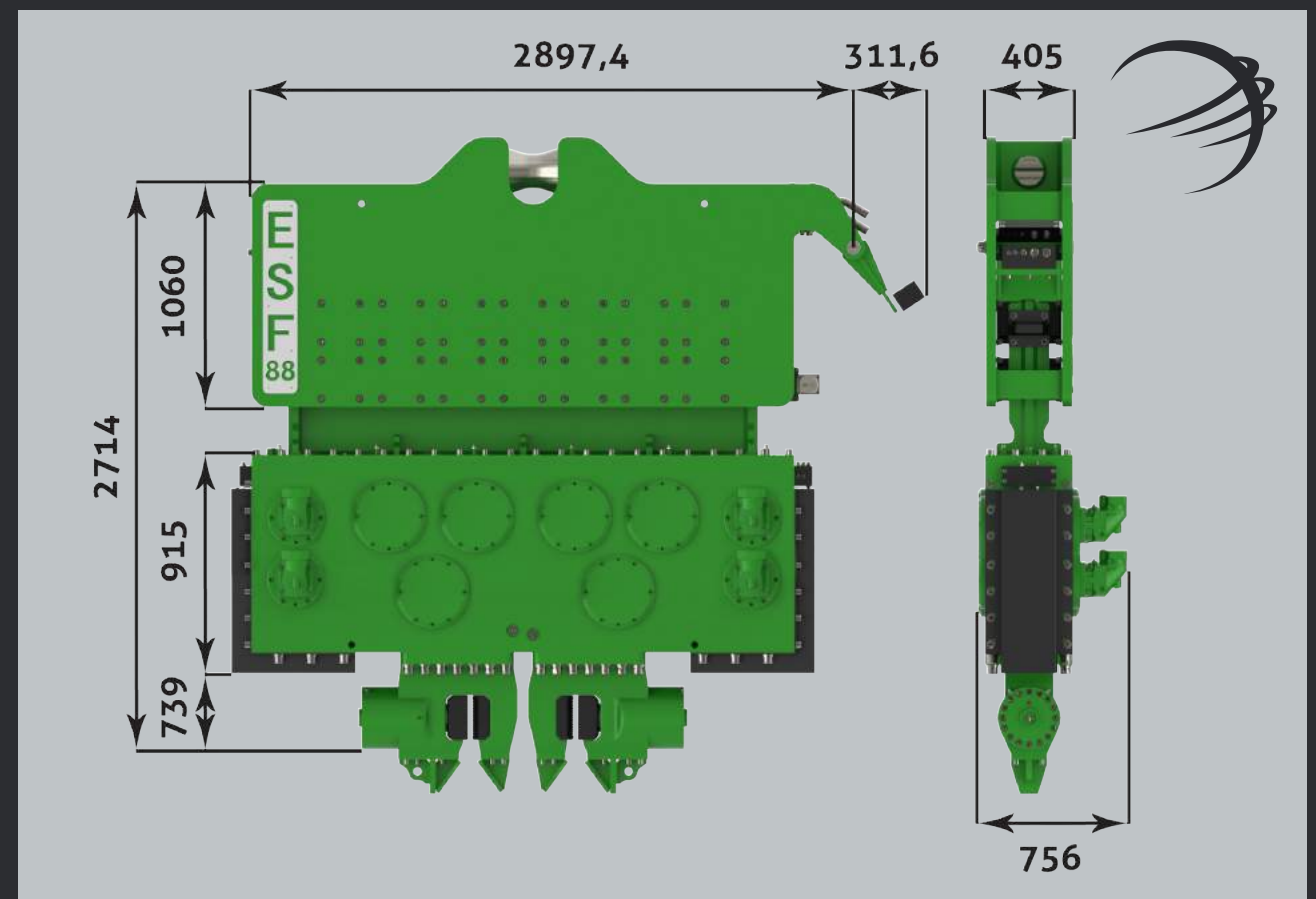
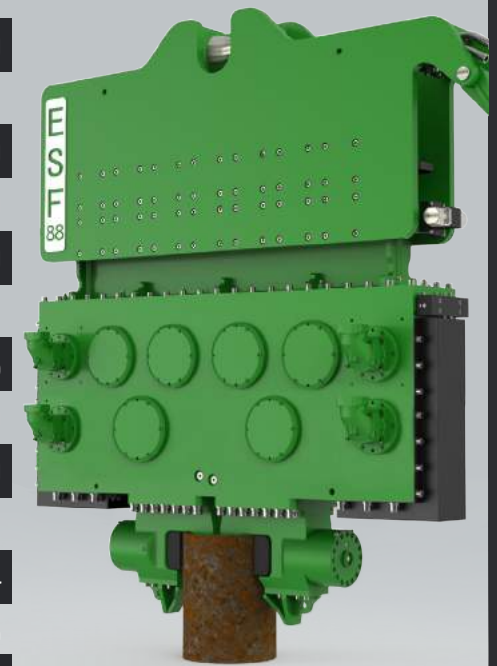
ESF 88



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.

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



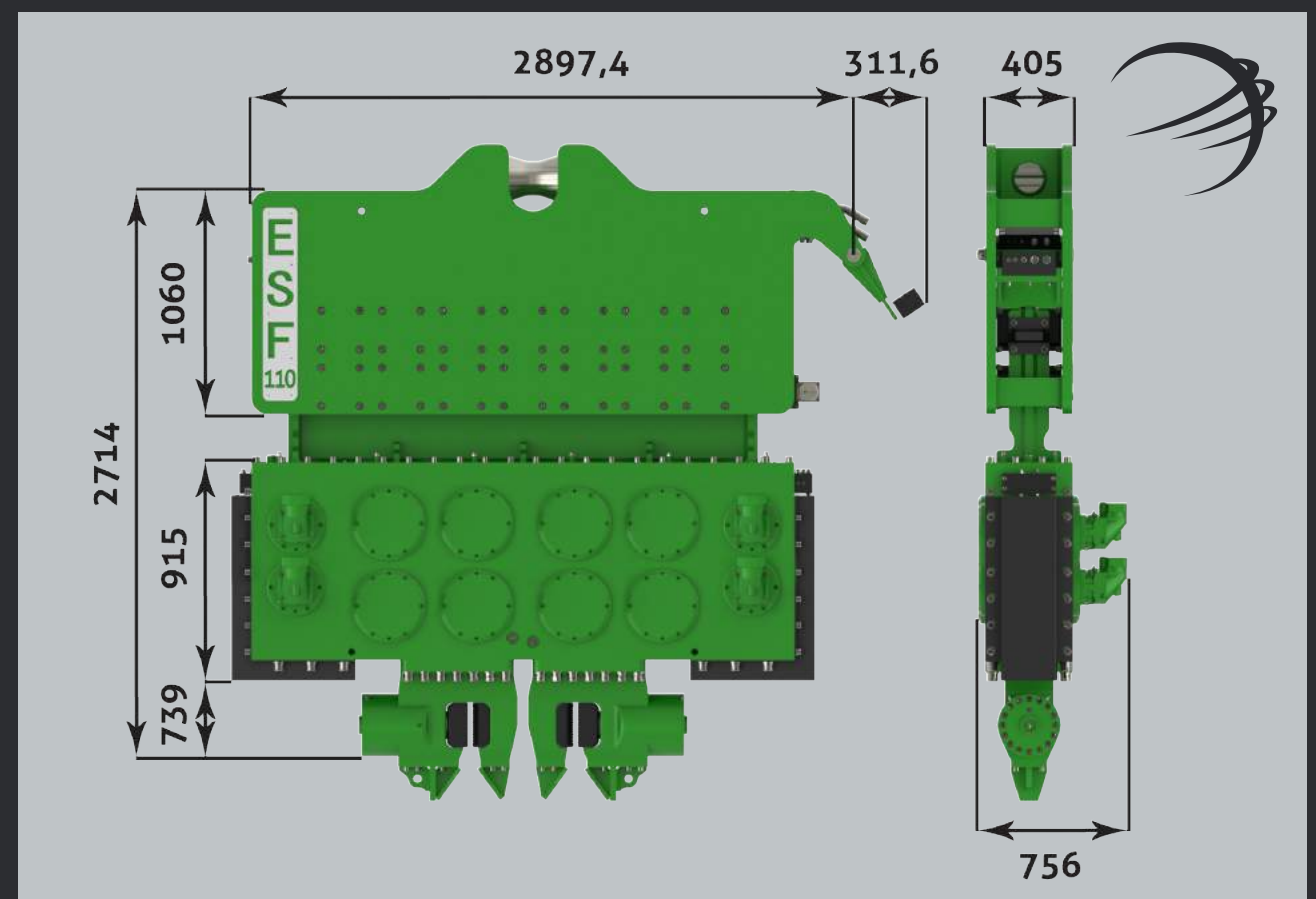
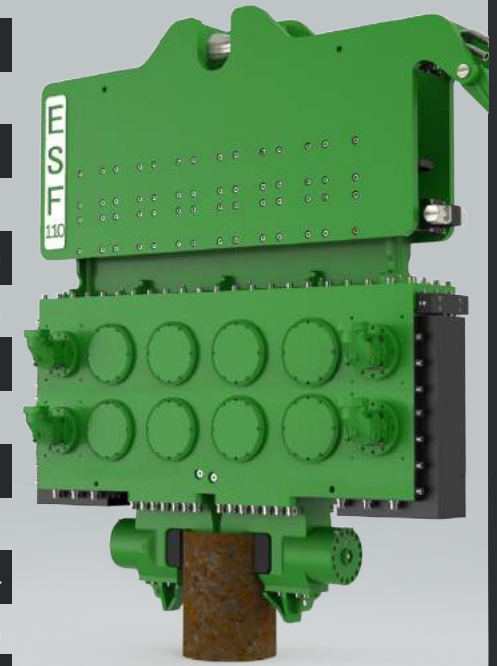


ESF 110

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 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.

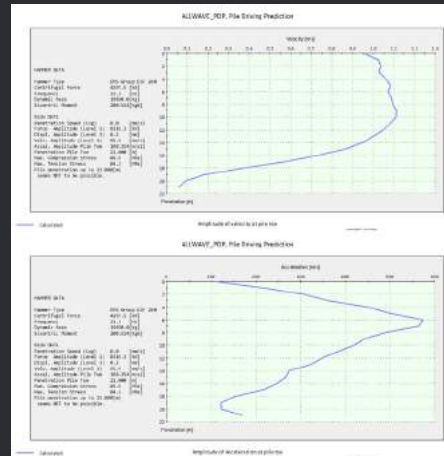
Centrifugal Force	kN	3088
Eccentric Moment	kgm	110
Speed	rpm	1600
Pulling Force	kN	3000
Total Weight (excl.Clamp)	kg	9200
Dynamic Weight (excl.Clamp)	kg	5365
Amplitude	mm	41
Power	kW	550
Displacement	liter/min	1000
Working Pressure	bar	350
Height	mm	2714
Width	mm	756
Length	mm	2897,4



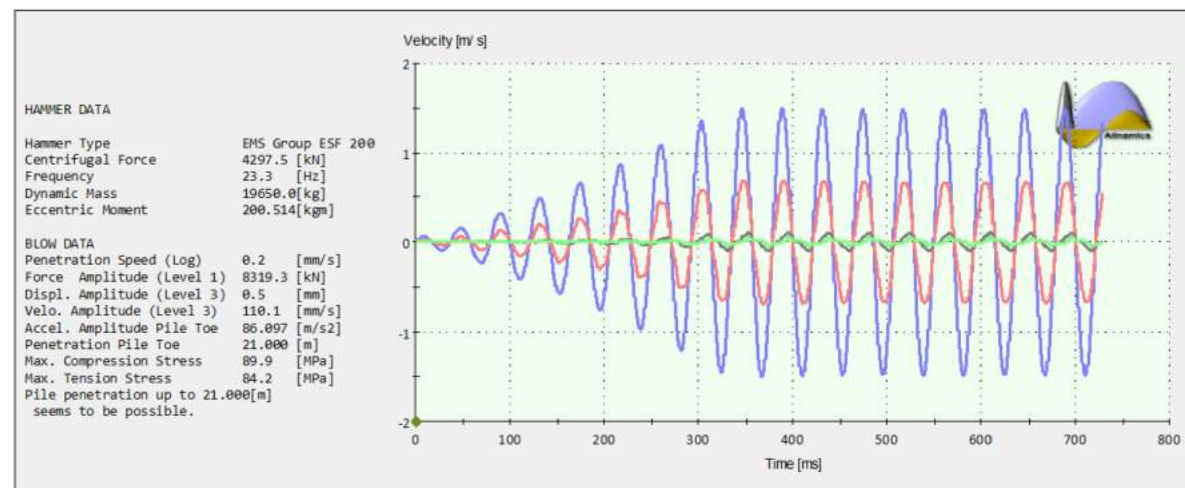
ESF 200C

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.

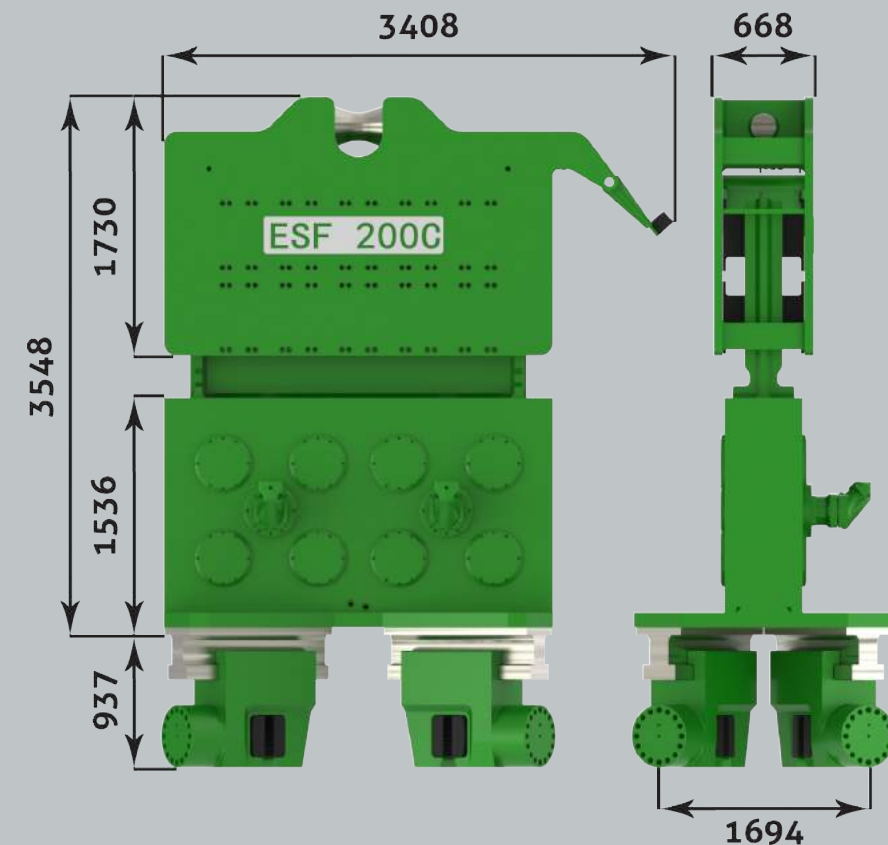


ALLWAVE_PDP, Pile Driving Prediction at 21 m Penetration



Velocity as function of Time at level = 38.000 [m]

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





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