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EMS GROUP

We manufacture ESF Series Vibratory Hammers

MODELS AVAILABLE

B Type - Excavator Mounted Hydraulic Vibratory Hammers

- ESF 03B
- ESF 1B
- ESF 2B
- ESF 3B
- ESF 4B
- ESF 6B
- ESF 8B
- ESF 12B

M Type - Excavator Mounted Hydraulic Vibratory Hammers

- ESF 6M
- ESF 7M
- ESF 8M
- ESF 12M

FREE - Free Hanging Crane Mounted Hydraulic Vibratory Hammers

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

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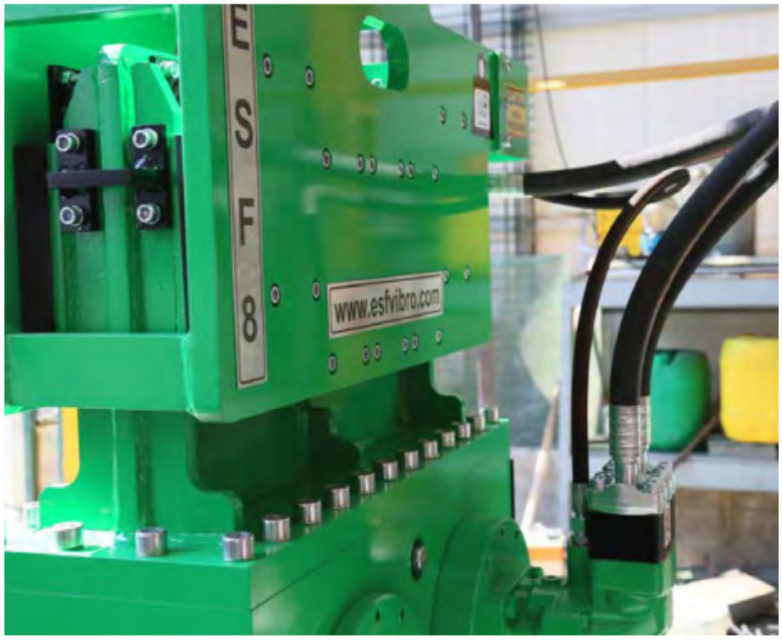
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B Type

Excavator Mounted Hydraulic Vibratory Hammers

"The values of our models are demonstrated by our first class quality and innovative designing process. We always anticipate market demands and change our strategies by innovative designs and actions to adapt current conditions accordingly. "



Our excavator mounted vibratory hammers are attached easily to excavator pump system and can be operated in a very short time. A line is a feeding line for hydromotor and B line is for clamp open action. Drain line is a connection from hydromotor oil leak- age to excavator tank.

OPTION : A line + Electric Line to open clamp
The clamp can be opened by remote control in excavator cabin.

Also we offer our customers small power packs to operate without excavator oil supply displacement. All of the power packs have wireless or wire type remote control utility.

Operator Friendly - Imperial Edition

Connection hitches are manufactured to match the excavator boom dimensions for easy attachment. Extension booms are available from approximately 6.6 ft to 13.1 ft and are supplied with hydraulic lines. Units connect to the excavator hydraulic system. Optional electric clamp-open control is available.

If
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B Type - Excavator Mounted Hydraulic Vibratory Hammers

- ESF 03B
- ESF 1B
- ESF 2B
- ESF 3B
- ESF 4B
- ESF 6B
- ESF 8B
- ESF 12B

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ESF 03B

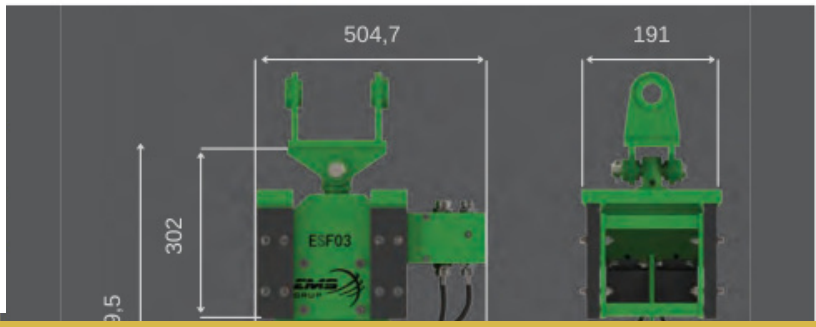
B TYPE - EXCAVATOR MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF03 is the smallest vibratory hammer in the world. Available as excavator mounted or suspended working of a small 30 lt/min. power pack. The unit weight is 160 kgs in mount- ed mode and 190 kgs in suspended due to the addition of reaction weights on unit



IMPERIAL SPECIFICATIONS

Compact excavator-mounted vibratory hammer. Available excavator-mounted or suspended. Approx. 7.9 GPM power-pack flow; mounted weight approx. 353 lb and suspended configuration approx. 419 lb with reaction weights.



ESF 03B - U.S. IMPERIAL DATA

Excavator Class	5.5 US tons	**Amplitude**	0.22 in
Centrifugal Force	7,419 lbf	**Power**	11 hp
Eccentric Moment	2.4 lb-ft	**Hydraulic Flow**	7.9 GPM
Speed	3,000 rpm	**Working Pressure**	2,176 psi
Pulling Force	3,372 lbf	**Height**	31.1 in
Push Down	3,372 lbf	**Width**	7.5 in
Total Weight (incl. clamp)	353 lb	**Length**	19.9 in
Dynamic Weight (incl. clamp)	265 lb		

Imperial values are converted from the manufacturer's metric specifications in the original brochure.

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ESF 1B

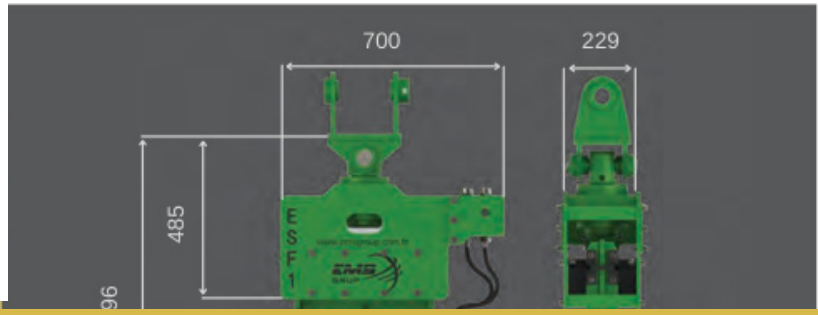
B TYPE - EXCAVATOR MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF1 model micro vibro hammer is a very unique and special for small size pile driving applications. This model is attached to Back Hoe loaders and mini loaders.



IMPERIAL SPECIFICATIONS

Micro vibratory hammer for small pile-driving applications, suitable for backhoe loaders and mini loaders.



ESF 1B - U.S. IMPERIAL DATA

Excavator Class	8.8-11.0 US tons	**Amplitude**	0.24 in
Centrifugal Force	18,210 lbf	**Power**	107 hp
Eccentric Moment	7.2 lb-ft	**Hydraulic Flow**	26.4 GPM
Speed	3,200 rpm	**Working Pressure**	4,641 psi
Pulling Force	6,744 lbf	**Height**	43.1 in
Push Down	4,496 lbf	**Width**	17.7 in
Total Weight (incl. clamp)	827 lb	**Length**	27.6 in
Dynamic Weight (incl. clamp)	639 lb		

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ESF 2B

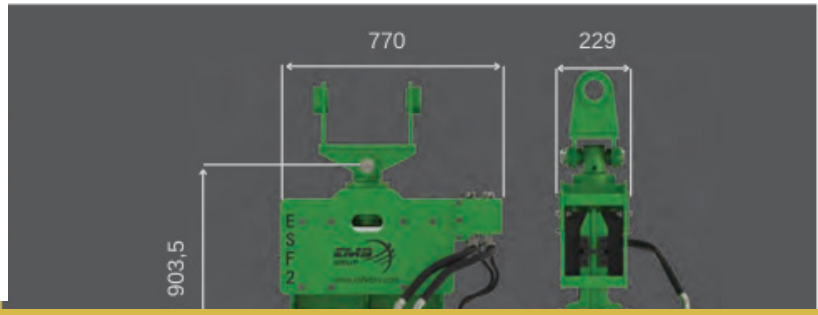
B TYPE - EXCAVATOR MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF2 model vibro hammer is a very unique and special for small size pile driving applica- tions. This model is attached to 14 tons class excavators.



IMPERIAL SPECIFICATIONS

Excavator-mounted vibratory hammer for small pile-driving applications.



ESF 2B - U.S. IMPERIAL DATA

Excavator Class	11.0-13.2 US tons	**Amplitude**	0.35 in
Centrifugal Force	58,001 lbf	**Power**	107 hp
Eccentric Moment	14.5 lb-ft	**Hydraulic Flow**	29.1 GPM
Speed	3,200 rpm	**Working Pressure**	4,641 psi
Pulling Force	17,985 lbf	**Height**	47.8 in
Push Down	8,992 lbf	**Width**	20.1 in
Total Weight (incl. clamp)	1,345 lb	**Length**	30.3 in
Dynamic Weight (incl. clamp)	1,091 lb		

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ESF 3B

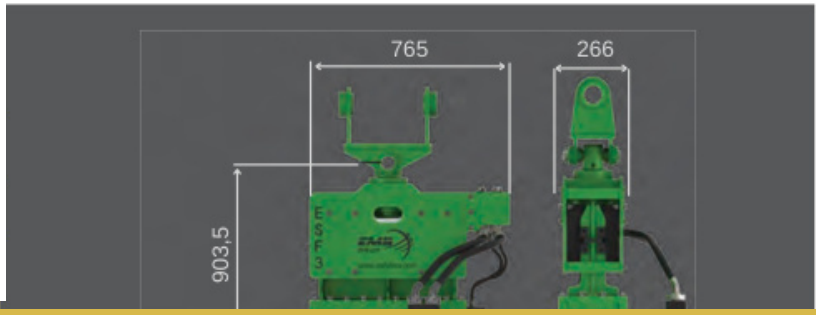
B TYPE - EXCAVATOR MOUNTED HYDRAULIC VIBRATORY HAMMER



ESF3 model vibro hammer is a very unique and special for small size pile driving applications. This model is attached to 16 tons class excavators. This size is optimum for PVC sheet piles driving

IMPERIAL SPECIFICATIONS

Excavator-mounted vibratory hammer for small pile-driving applications; well suited for PVC sheet piles.



ESF 3B - U.S. IMPERIAL DATA

Excavator Class	13.2-16.5 US tons	**Amplitude**	0.47 in
Centrifugal Force	66,768 lbf	**Power**	107 hp
Eccentric Moment	21.7 lb-ft	**Hydraulic Flow**	29.1 GPM
Speed	3,000 rpm	**Working Pressure**	4,641 psi
Pulling Force	17,985 lbf	**Height**	47.8 in
Push Down	8,992 lbf	**Width**	20.1 in
Total Weight (incl. clamp)	1,400 lb	**Length**	30.3 in
Dynamic Weight (incl. clamp)	1,135 lb		

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ESF 4B

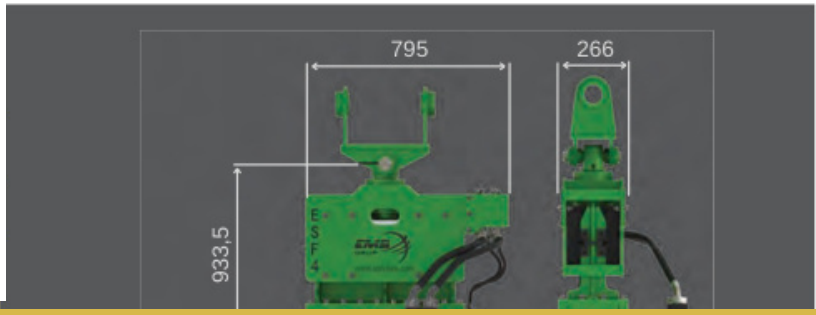
B TYPE - EXCAVATOR MOUNTED HYDRAULIC VIBRATORY HAMMER



ESF4 model vibro hammer is attached to 18/20 tons class excavators. In normal soil conditions and low weight materials enough to drive posts and sheet piles up to 6 mt.

IMPERIAL SPECIFICATIONS

Designed for approximately 19.7 ft pile lengths in normal soil conditions, depending on pile weight and job conditions.



ESF 4B - U.S. IMPERIAL DATA

Excavator Class	16.5-22.0 US tons	**Amplitude**	0.59 in
Centrifugal Force	72,388 lbf	**Power**	107 hp
Eccentric Moment	28.9 lb-ft	**Hydraulic Flow**	29.1 GPM
Speed	3,750 rpm	**Working Pressure**	4,641 psi
Pulling Force	17,985 lbf	**Height**	47.8 in
Push Down	8,992 lbf	**Width**	20.1 in
Total Weight (incl. clamp)	1,433 lb	**Length**	30.3 in
Dynamic Weight (incl. clamp)	1,168 lb		

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ESF 6B

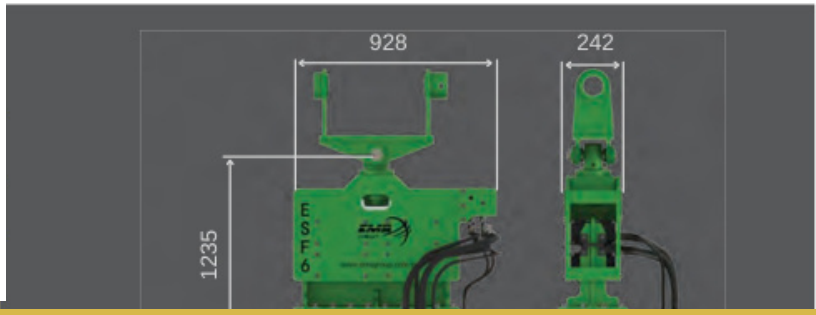
B TYPE - EXCAVATOR MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF 6 size vibratory hammer is attached to 30 tons class excavators. This size vibratory hammers is efficient to drive sheet piles or steel tubes up to 10 meters in normal soil conditions.



IMPERIAL SPECIFICATIONS

Designed for larger excavators and capable of driving sheet piles or steel tubes up to approximately 32.8 ft in normal soil conditions.



ESF 6B - U.S. IMPERIAL DATA

Excavator Class	27.6-33.1 US tons	**Amplitude**	0.47 in
Centrifugal Force	78,234 lbf	**Power**	165 hp
Eccentric Moment	43.4 lb-ft	**Hydraulic Flow**	55.5 GPM
Speed	2,300 rpm	**Working Pressure**	4,351 psi
Pulling Force	26,977 lbf	**Height**	64.2 in
Push Down	17,985 lbf	**Width**	26.4 in
Total Weight (incl. clamp)	2,668 lb	**Length**	36.5 in
Dynamic Weight (incl. clamp)	2,205 lb		

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ESF 8B

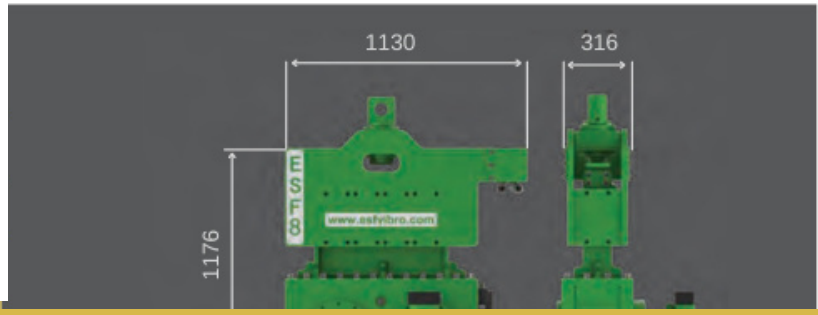
B TYPE - EXCAVATOR MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF 8 size vibratory hammer is attached to 38-40 tons class excavators. Capable to drive steel sheeet piles, steel tubes up to 12 meters in normal soft ground formations.



IMPERIAL SPECIFICATIONS

Heavy excavator-mounted vibratory hammer capable of driving sheet piles and steel tubes up to approximately 39.4 ft in normal soft-ground formations.



ESF 8B - U.S. IMPERIAL DATA

Excavator Class	41.9-44.1 US tons	**Amplitude**	0.51 in
Centrifugal Force	108,808 lbf	**Power**	198 hp
Eccentric Moment	57.9 lb-ft	**Hydraulic Flow**	66.8 GPM
Speed	2,300 rpm	**Working Pressure**	5,076 psi
Pulling Force	33,721 lbf	**Height**	68.9 in
Push Down	20,233 lbf	**Width**	25.2 in
Total Weight (incl. clamp)	3,549 lb	**Length**	44.5 in
Dynamic Weight (incl. clamp)	2,844 lb		

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ESF 12B

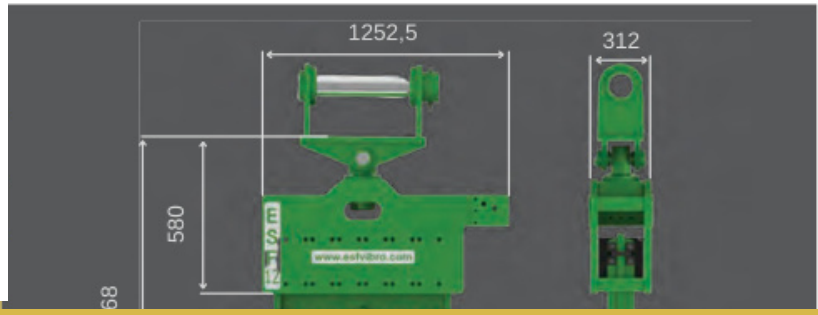
B TYPE - EXCAVATOR MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF12 size vibratory hammer is attached to 47-50 tons class excavators or can be ope- rated by power pack unit like PS 300. ESF 12 Vibratory Hammer is the biggest excavator size vibratory hammer and can drive sheet piles or steel tubes up to 15



IMPERIAL SPECIFICATIONS

Large excavator-mounted vibratory hammer, also suitable for power-pack operation; capable of driving sheet piles or steel tubes up to approximately 49.2 ft in hard-ground formations.



ESF 12B - U.S. IMPERIAL DATA

Excavator Class	49.6-55.1 US tons	**Amplitude**	0.58 in
Centrifugal Force	209,972 lbf	**Power**	248 hp
Eccentric Moment	91.1 lb-ft	**Hydraulic Flow**	83.2 GPM
Speed	2,600 rpm	**Working Pressure**	4,351 psi
Pulling Force	44,962 lbf	**Height**	82.7 in
Push Down	44,962 lbf	**Width**	28.3 in
Total Weight (incl. clamp)	5,181 lb	**Length**	43.0 in
Dynamic Weight (incl. clamp)	3,748 lb		

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M Type
Excavator Mounted Hydraulic Vibratory Hammers

We manufacture M Type excavator mounted vibratory hammers as per request. The big- gest advantage of this type is the increase of total length of the sheet pile or steel tube. We recommend these M types for un-skilled new sheet pile excavator operators. M type is easy used on the other hand, in hard conditions B type is more effective types.





M Type - Excavator Mounted Hydraulic Vibratory Hammers

M-Type excavator-mounted vibratory hammers are available by request. Their configuration can increase usable pile or steel-tube length and can simplify handling for newer operators. In harder ground conditions, the B-Type configuration may provide greater effectiveness.

M Type - Excavator Mounted Hydraulic Vibratory Hammers

- ESF 6M
- ESF 7M
- ESF 8M
- ESF 12M

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ESF 6M

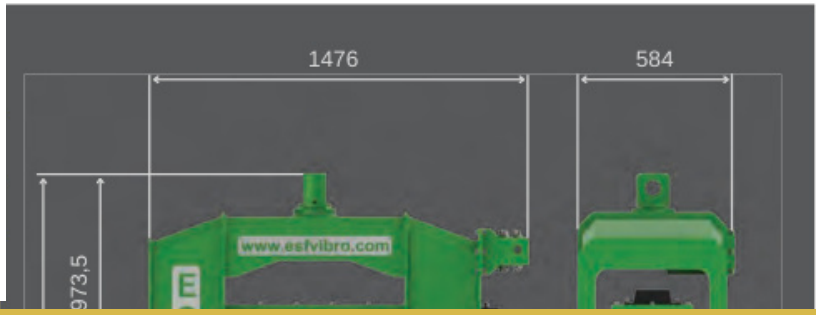
M TYPE - EXCAVATOR MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF 6M is suitable to attach to 25 tons class excavators and capable to drive up to 8 mt sheet piles or steel tubes in normal ground formations.



IMPERIAL SPECIFICATIONS

M-Type excavator-mounted vibratory hammer capable of driving sheet piles or steel tubes up to approximately 26.2 ft in normal ground formations.



ESF 6M - U.S. IMPERIAL DATA

Excavator Class	27.6-33.1 US tons	**Amplitude**	0.47 in
Centrifugal Force	97,567 lbf	**Power**	172 hp
Eccentric Moment	43.4 lb-ft	**Hydraulic Flow**	52.8 GPM
Speed	2,500 rpm	**Working Pressure**	4,351 psi
Pulling Force	17,985 lbf	**Height**	57.7 in
Push Down	17,985 lbf	**Width**	23.0 in
Total Weight (incl. clamp)	2,866 lb	**Length**	58.1 in
Dynamic Weight (incl. clamp)	2,205 lb		

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ESF 7M

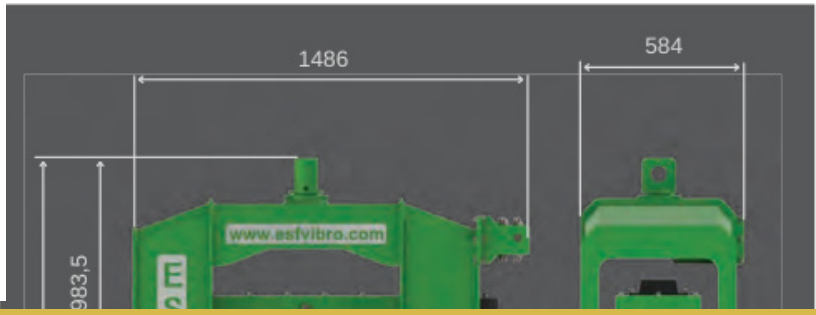
M TYPE - EXCAVATOR MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF 7M is attached to 30 tons class excavators and capable to drive up to 10 mt steel sheet piles or steel tubes in soft soil formations.



IMPERIAL SPECIFICATIONS

M-Type unit for larger excavators; capable of driving steel sheet piles or steel tubes up to approximately 32.8 ft in soft-soil formations.



ESF 7M - U.S. IMPERIAL DATA

Excavator Class	33.1 US tons	**Amplitude**	0.47 in
Centrifugal Force	135,785 lbf	**Power**	176 hp
Eccentric Moment	50.6 lb-ft	**Hydraulic Flow**	59.2 GPM
Speed	2,800 rpm	**Working Pressure**	4,351 psi
Pulling Force	33,721 lbf	**Height**	58.5 in
Push Down	33,721 lbf	**Width**	23.0 in
Total Weight (incl. clamp)	3,505 lb	**Length**	58.5 in
Dynamic Weight (incl. clamp)	2,557 lb		

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ESF 8M

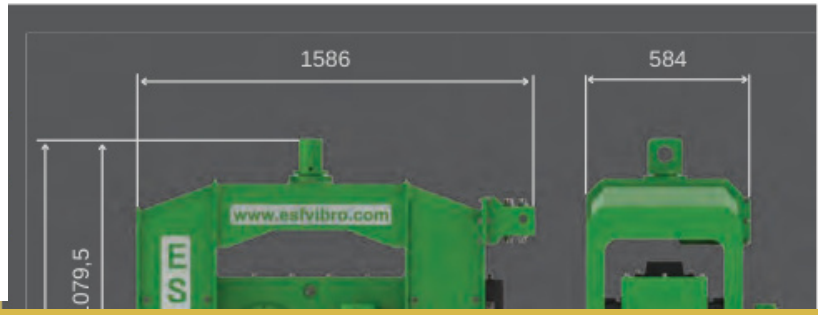
M TYPE - EXCAVATOR MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF 8M is attached to 40 tons class excavators and capable to drive steel sheet piles and steel tubes up to 12 mt in normal ground formations.



IMPERIAL SPECIFICATIONS

M-Type unit for heavy excavators; capable of driving steel sheet piles and steel tubes up to approximately 39.4 ft in normal ground formations.



ESF 8M - U.S. IMPERIAL DATA

Excavator Class	38.6-44.1 US tons	**Amplitude**	0.51 in
Centrifugal Force	168,832 lbf	**Power**	192 hp
Eccentric Moment	68.0 lb-ft	**Hydraulic Flow**	64.2 GPM
Speed	2,700 rpm	**Working Pressure**	4,351 psi
Pulling Force	33,721 lbf	**Height**	62.3 in
Push Down	33,721 lbf	**Width**	23.0 in
Total Weight (incl. clamp)	4,321 lb	**Length**	62.4 in
Dynamic Weight (incl. clamp)	3,241 lb		

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ESF 12M

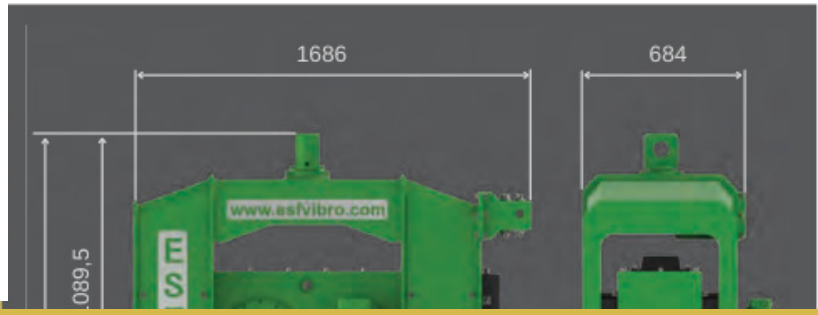
M TYPE - EXCAVATOR MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF 12M is attached to 45-50 tons class excavators and capable to drive steel sheet piles and steel tunes in hard - clay ground formations.



IMPERIAL SPECIFICATIONS

M-Type heavy-duty vibratory hammer for steel sheet piles and steel tubes in hard-clay ground formations.



ESF 12M - U.S. IMPERIAL DATA

Excavator Class	49.6-55.1 US tons	**Amplitude**	0.58 in
Centrifugal Force	209,972 lbf	**Power**	248 hp
Eccentric Moment	91.1 lb-ft	**Hydraulic Flow**	83.2 GPM
Speed	2,600 rpm	**Working Pressure**	4,351 psi
Pulling Force	44,962 lbf	**Height**	62.7 in
Push Down	44,962 lbf	**Width**	26.9 in
Total Weight (incl. clamp)	5,071 lb	**Length**	66.4 in
Dynamic Weight (incl. clamp)	3,748 lb		

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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 .

Free-Hanging Crane Mounted Vibratory Hammers

Crane-mounted vibratory hammers are designed for long sheet piles or steel tubes where excavator boom reach is insufficient. For example, pile lengths of approximately 82 ft or more generally require a crane-mounted system. These hammers operate from separate hydraulic power packs and are used on major bridge, seaport and stone-column projects. Their high centrifugal force also makes them suitable for demanding soil conditions.

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

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ESF 14

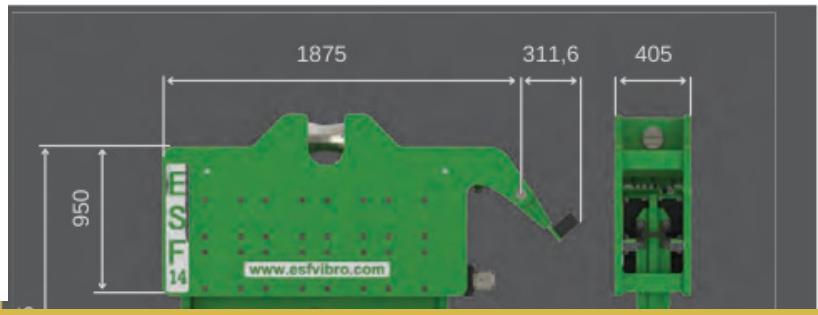
CRANE MOUNTED HYDRAULIC VIBRATORY HAMMER

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



IMPERIAL SPECIFICATIONS

Crane-mounted high-frequency vibratory hammer with gearbox cooling system for sheet pile or steel tube driving in hard soil. Operated by PS350 power pack.



ESF 14 - U.S. IMPERIAL DATA

Centrifugal Force	167,033 lbf	**Power**	253 hp
Eccentric Moment	101.3 lb-ft	**Hydraulic Flow**	85.1 GPM
Speed	2,200 rpm	**Working Pressure**	4,351 psi
Pulling Force	71,939 lbf	**Height**	86.0 in
Total Weight (incl. clamp)	8,267 lb	**Width**	15.9 in
Dynamic Weight (incl. clamp)	5,291 lb	**Length**	73.8 in
Amplitude	0.47 in		

Imperial values are converted from the manufacturer's metric specifications in the original brochure.

INTERNATIONAL ATTACHMENTS

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ESF 20

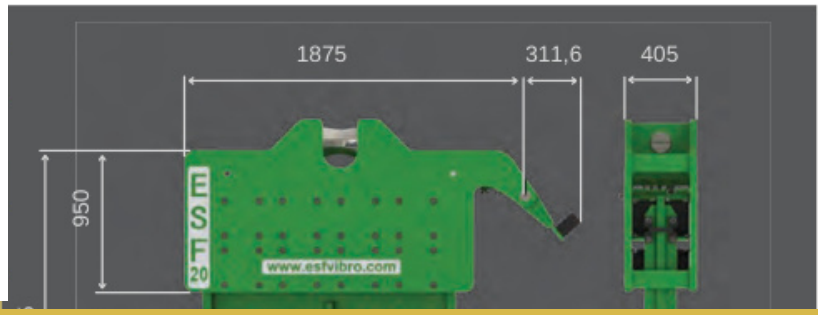
CRANE MOUNTED HYDRAULIC VIBRATORY HAMMER

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.



IMPERIAL SPECIFICATIONS

Crane-mounted normal-frequency vibratory hammer with gearbox cooling system. Operated by PS300 power pack.



ESF 20 - U.S. IMPERIAL DATA

Centrifugal Force	126,343 lbf	**Power**	184 hp
Eccentric Moment	144.7 lb-ft	**Hydraulic Flow**	72.1 GPM
Speed	1,500 rpm	**Working Pressure**	4,351 psi
Pulling Force	71,939 lbf	**Height**	91.5 in
Total Weight (incl. clamp)	8,267 lb	**Width**	29.7 in
Dynamic Weight (incl. clamp)	5,732 lb	**Length**	73.8 in
Amplitude	0.93 in		

Imperial values are converted from the manufacturer's metric specifications in the original brochure.

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ESF 23

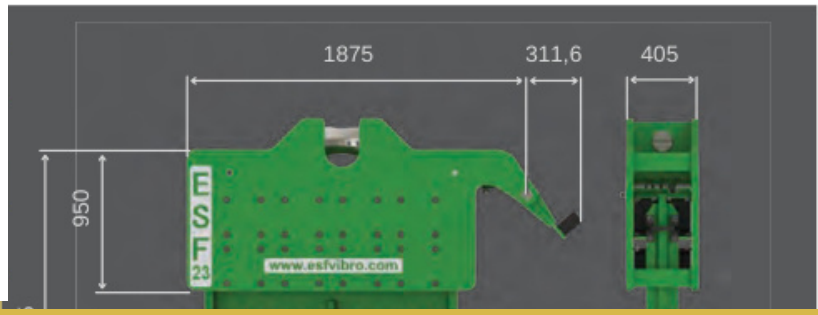
CRANE MOUNTED HYDRAULIC VIBRATORY HAMMER

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.



IMPERIAL SPECIFICATIONS

Crane-mounted normal-frequency vibratory hammer with gearbox cooling system. Operated by PS350 power pack.



ESF 23 - U.S. IMPERIAL DATA

Centrifugal Force	145,002 lbf	**Power**	184 hp
Eccentric Moment	166.4 lb-ft	**Hydraulic Flow**	72.1 GPM
Speed	1,500 rpm	**Working Pressure**	4,351 psi
Pulling Force	145,002 lbf	**Height**	91.5 in
Total Weight (incl. clamp)	6,724 lb	**Width**	29.7 in
Dynamic Weight (incl. clamp)	3,902 lb	**Length**	73.8 in
Amplitude	1.02 in		

Imperial values are converted from the manufacturer's metric specifications in the original brochure.

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ESF 55

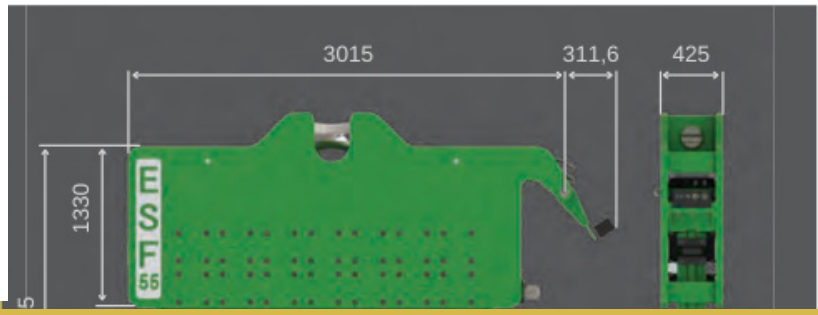
CRANE MOUNTED HYDRAULIC VIBRATORY HAMMER

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



IMPERIAL SPECIFICATIONS

Crane-mounted normal-frequency vibratory hammer with gearbox cooling system. Operated by PS600 power pack.



ESF 55 - U.S. IMPERIAL DATA

Centrifugal Force	347,330 lbf	**Power**	553 hp
Eccentric Moment	397.8 lb-ft	**Hydraulic Flow**	211.3 GPM
Speed	1,500 rpm	**Working Pressure**	5,076 psi
Pulling Force	112,404 lbf	**Height**	107.2 in
Total Weight (incl. clamp)	12,787 lb	**Width**	31.4 in
Dynamic Weight (incl. clamp)	8,113 lb	**Length**	118.7 in
Amplitude	1.18 in		

Imperial values are converted from the manufacturer's metric specifications in the original brochure.

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ESF 55C

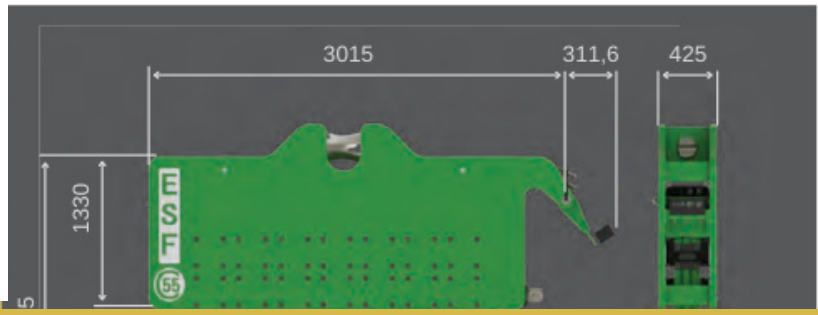
CRANE MOUNTED HYDRAULIC VIBRATORY HAMMER

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



IMPERIAL SPECIFICATIONS

Crane-mounted high-frequency vibratory hammer with gearbox cooling system. Designed especially for hard-clay ground formations and operated by PS600 power pack.



ESF 55C - U.S. IMPERIAL DATA

Centrifugal Force	437,928 lbf	**Power**	553 hp
Eccentric Moment	397.8 lb-ft	**Hydraulic Flow**	211.3 GPM
Speed	1,900 rpm	**Working Pressure**	5,076 psi
Pulling Force	179,847 lbf	**Height**	107.2 in
Total Weight (incl. clamp)	17,857 lb	**Width**	31.4 in
Dynamic Weight (incl. clamp)	8,488 lb	**Length**	118.7 in
Amplitude	1.12 in		

Imperial values are converted from the manufacturer's metric specifications in the original brochure.

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ESF 88

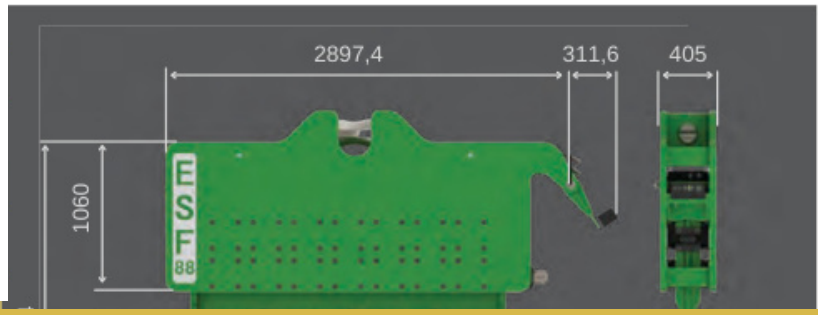
CRANE MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF 88 is Normal Frequency vibratory hammer with gear box cooling system as stan- dard. 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



IMPERIAL SPECIFICATIONS

Crane-mounted normal-frequency vibratory hammer for long sheet piles and steel tubes in seaport and bridge projects. Operated by PS800 power pack.



ESF 88 - U.S. IMPERIAL DATA

Centrifugal Force	654,194 lbf	**Power**	684 hp
Eccentric Moment	636.5 lb-ft	**Hydraulic Flow**	211.3 GPM
Speed	1,500 rpm	**Working Pressure**	4,931 psi
Pulling Force	613,729 lbf	**Height**	106.9 in
Total Weight (incl. clamp)	17,306 lb	**Width**	29.8 in
Dynamic Weight (incl. clamp)	11,085 lb	**Length**	114.1 in
Amplitude	1.38 in		

Imperial values are converted from the manufacturer's metric specifications in the original brochure.

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ESF 110

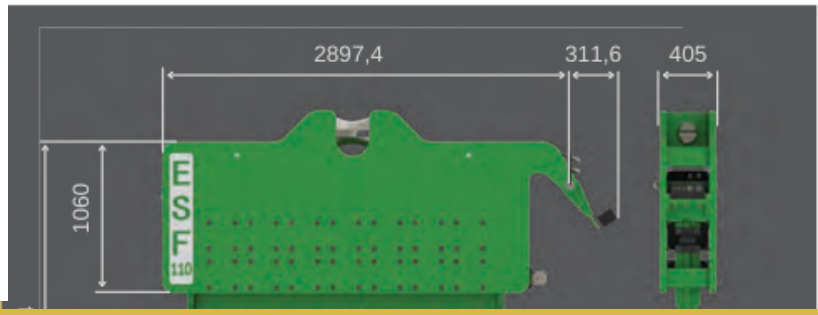
CRANE MOUNTED HYDRAULIC VIBRATORY HAMMER

ESF 110 is Normal Frequency vibratory hammer with gear box cooling system as stan- dard. 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



IMPERIAL SPECIFICATIONS

Crane-mounted normal-frequency vibratory hammer for long sheet piles and steel tubes in seaport and bridge projects. Operated by PS1000 power pack.



ESF 110 - U.S. IMPERIAL DATA

Centrifugal Force	694,210 lbf	**Power**	738 hp
Eccentric Moment	795.6 lb-ft	**Hydraulic Flow**	264.2 GPM
Speed	1,500 rpm	**Working Pressure**	5,076 psi
Pulling Force	674,427 lbf	**Height**	106.9 in
Total Weight (incl. clamp)	20,283 lb	**Width**	29.8 in
Dynamic Weight (incl. clamp)	11,872 lb	**Length**	114.1 in
Amplitude	1.61 in		

Imperial values are converted from the manufacturer's metric specifications in the original brochure.

INTERNATIONAL ATTACHMENTS

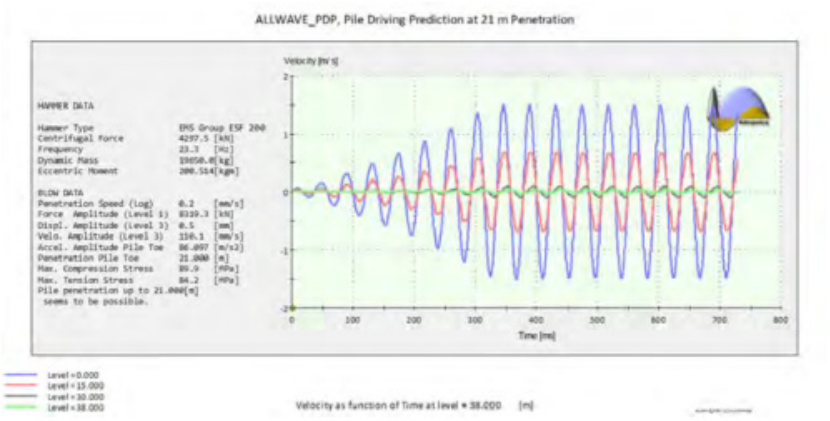
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ESF 200C

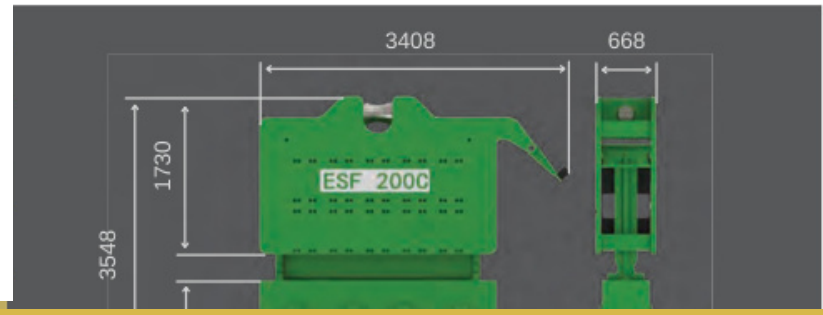
CRANE MOUNTED HYDRAULIC VIBRATORY HAMMER



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

IMPERIAL SPECIFICATIONS

Heavy crane-mounted vibratory hammer for offshore, seaport and bridge projects. Designed for steel tubes up to approximately 78.7 in outside diameter in hard-ground formations.



ESF 200C - U.S. IMPERIAL DATA

Centrifugal Force	1,020,633 lbf	**Power**	1,475 hp
Eccentric Moment	1,446.6 lb-ft	**Hydraulic Flow**	396.3 GPM
Speed	1,400 rpm	**Working Pressure**	5,511 psi
Pulling Force	1,348,854 lbf	**Height**	139.7 in
Total Weight (incl. clamp)	34,613 lb	**Width**	26.3 in
Dynamic Weight (incl. clamp)	28,440 lb	**Length**	134.2 in
Amplitude	1.22 in		

Imperial values are converted from the manufacturer's metric specifications in the original brochure.