

CRANE SUSPENDED VIBRO HAMMER  
SVR 200 NF // INDONESIA



[www.omsvibro.com](http://www.omsvibro.com)

# OMS VIBRATORY HAMMERS

SVR 200 NF Video



## SVR SERIES

Crane Suspended Vibro Hammer  
(Normal Frequency & Variable Moment)

## OVR SERIES

Excavator Mounted Vibro Hammer  
(Standard & Variable Moment)

# POWERFUL VIBRATORY PILE DRIVING EQUIPMENT BY **OMS**

Manufacturer of Pile Driving Equipment for over 35 years!

## Why Choose the OMS?

OMS offers its nature-respecting and sustainable solutions, which are part of our mission to our customers and business partners in the best way with its quality and the environment of trust it provides. Also, OMS is growing rapidly by including new dealers in its structures while continuing to have a say in international trade. These are the top reasons why OMS is preferred and why we are getting closer to our vision of being situated in the most reliable and respected position in the sector and being the "brand of the future" day by day.



*OMS vibratory pile driving equipment is used in the field of construction and infrastructure in all conditions around the globe.*

- Wide Range Products for Various Ground Condition and Depth,
- Crane hanging, excavator mounted and side grip vibratory hammers,
- Suitable for near historical buildings to use with variable (resonance - free) models,
- Stone column vibroflotation equipment for vibro compaction and vibro replacement,
- Wick drain installation equipment (PVD insertion equipment),
- Hydraulic power units,
- Extensive range of accessories and clamps,
- 70% in-house production provides the quality control,
- Fast delivery and professional after sales team,
- Spare parts and training support,
- Easy and effortless documentation and shipping.

## **SVR Series**

### Crane Suspended Vibro Hammer

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## **OVR Series**

### Excavator Mounted Vibro Hammer

Standard (S) —→ Page 12

Variable Moment (VM) —→ Page 16

OMS vibratory pile driving machines save time and cost by providing the latest technology and the best performance. With 24/7 access to technical and spare part support, all piling applications can be conducted without any problem occurring.



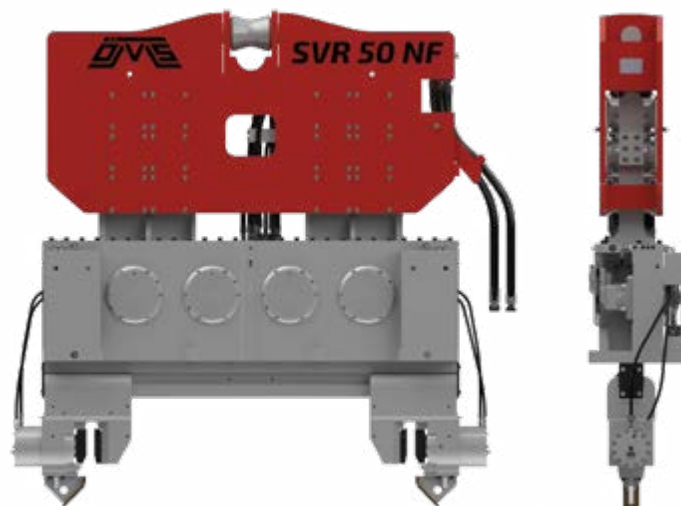
Scan the code with your mobile camera or with a QR reader app to watch the working video of SVR 30 NF.

*For various ground conditions and depths, long-lasting, powerful and high-performance vibratory pile driver / extractor.*

# SVR Series

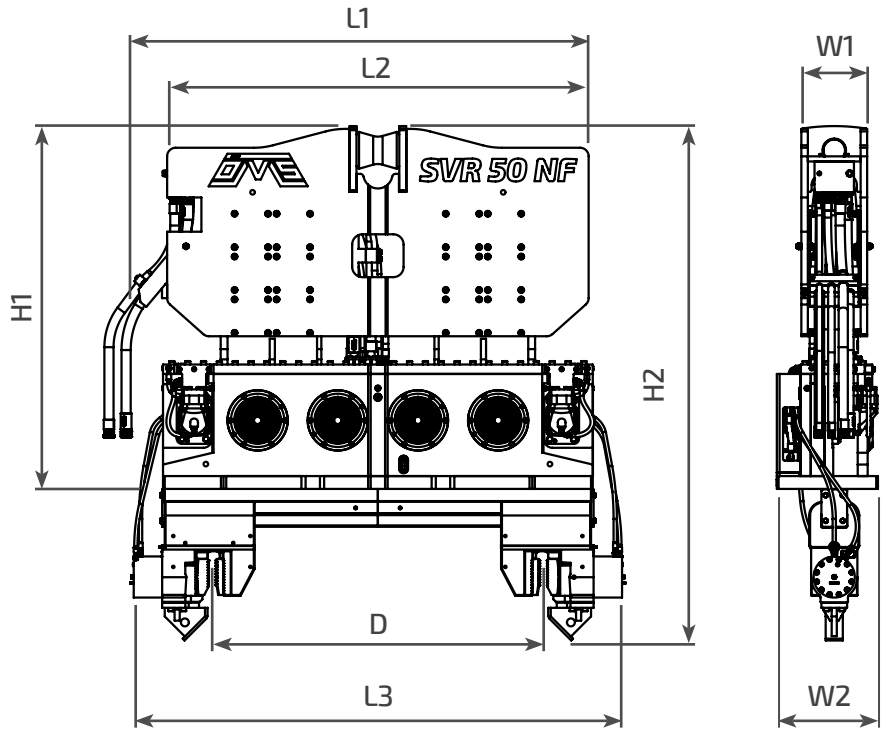
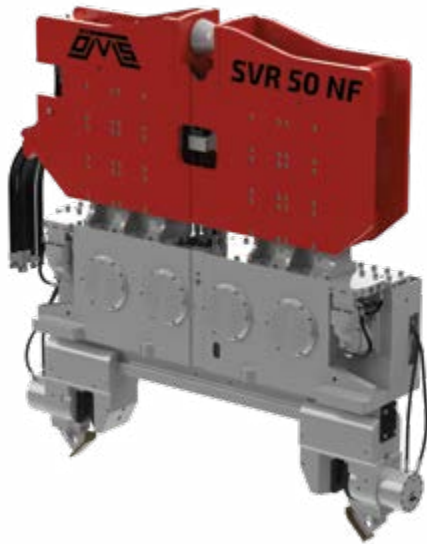
Crane Suspended Vibro Hammers

## Normal Frequency (NF)



### Metric System

Technical Specifications	25 NF	30 NF	50 NF	80 NF	82 NF	120 NF	200 NF
Eccentric Moment (kgm)	25	32.6	50.2	80.3	82.3	120	203.2
Centrifugal Force (kN)	795	1036	1409	1988	2310	2846	4380
Frequency (rpm)	1700	1700	1600	1500	1600	1480	1400
Oil Flow (lpm)	366	421	605	899	925	1122	1792
Power (kW)	195	243	352	524	540	655	1045
Amplitude (mm)	22	24	24	27.5	27.5	26	19
Pulling Force (kN) Max.	470	590	706	941	941	1059	1880
<b>Weight and Dimensions</b>							
Dyn. Weight W/O Clamp (kg)	2270	2750	4130	5850	6000	9145	21700
Total Weight W/O Clamp (kg)	3100	4485	6150	9100	8950	12172	26100
Length / L1 (mm)	1998	2599	2650	3315	2740	3315	3660
Length / L2 (mm)	1796	2420	2460	3070	2500	3070	3350
Length / L3 (mm)	1942	2812	2848	3410	2950	3360	-
Height / H1 (mm)	1705	2034	2117	2200	2675	2682	3620
Height / H2 (mm)	2376	2704	3002	3290	3765	3766	-
Width / W1 (mm)	371	364	384	451	408	455	493
Width / W2 (mm)	550	575	590	761	700	728	2070
Throat Width (mm)	366	350	360	461	360	480	800
<b>Clamps for Sheet Piles</b>							
	SCN 120	SCN 120	SCN 165	SCN 350	SCN 200	SCN 350	-
Clamping Force (kN)	1216	1216	1700	3560	2262	3560	-
Weight (kg)	851	851	866	2560	1195	2560	-
<b>Clamps for Casing</b>							
	KCN 60x2	KCN 60x2	KCN 90x2	KCN 185x2	KCN 185x2	KCN 185x2	KCN 185x4
Diameter (min.-max.) / D (mm)	360 - 1030	360 - 1900	520 - 1900	600 - 2100	600 - 1650	600 - 2050	1000 - 3000
Clamping Force (kN)	643 x 2	643 x 2	890 x 2	1858 x 2	1858 x 2	1858 x 2	1858 x 4
Weight (kg)	307 x 2	307 x 2	538 x 2	1164 x 2	1164 x 2	1164 x 2	1164 x 4
<b>Recommended Power Pack</b>							
	PP 320	PP 380	PP 536	PP 768	PP 768	PP 1072	PP 1536
Output (kW)	235	285	394	565	565	394 x 2	565 x 2



## Imperial System

Technical Specifications	25 NF	30 NF	50 NF	80 NF	82 NF	120 NF	200 NF
Eccentric Moment (in.lbs)	2170	2830	4357	6970	7143	10416	17637
Centrifugal Force (tons)	89	116	159	223	260	320	493
Frequency (rpm)	1700	1700	1600	1500	1600	1480	1400
Oil Flow (gpm)	97	111	160	237	244	297	474
Power (hP)	262	326	472	703	724	878	1402
Amplitude (in)	0.9	0.9	0.9	1.08	1.08	1.02	0.75
Pulling Force Max. (tons)	53	66	79	106	106	119	211
Weight and Dimensions							
Dyn. Weight W/O Clamp (lbs)	5004	6063	9105	12897	13228	20162	47840
Total Weight W/O Clamp (lbs)	6834	9888	13559	20062	19731	26835	57541
Length / L1 (in)	79	102	104	131	108	131	144
Length / L2 (in)	71	95	97	121	98	121	132
Length / L3 (in)	77	111	112	134	116	132	-
Height / H1 (in)	67	80	84	87	105	106	143
Height / H2 (in)	94	106	118	130	148	148	-
Width / W1 (in)	15	14	15	18	16	18	19
Width / W2 (in)	22	23	23	30	28	29	82
Throat Width (in)	14.4	13.8	14.2	18.1	14.2	18.9	31.5
Clamps for Sheet Piles	SCN 120	SCN 120	SCN 165	SCN 350	SCN 200	SCN 350	-
Clamping Force (tons)	137	137	191	400	254	400	-
Weight (lbs)	1876	1876	1909	5644	2634	5644	-
Clamps for Casing	KCN 60x2	KCN 60x2	KCN 90x2	KCN 185x2	KCN 185x2	KCN 185x2	KCN 185x4
Diameter (min.-max.)/D (in)	14 - 41	14 - 75	21 - 75	24 - 83	24 - 83	24 - 81	39 - 118
Clamping Force (tons)	73x2	73x2	100x2	209x2	209x2	209x2	418x2
Weight (lbs)	677x2	677x2	1186x2	2567x2	2567x2	2567x2	5133x2
Recommended Power Pack	PP 320	PP 380	PP 536	PP 768	PP 768	PP 1072	PP 1536
Output (hP)	320	380	536	768	768	536 x 2	768 x 2



Scan the code  
with your mobile  
camera or  
with a QR reader  
app to watch  
the working video  
of SVR 50 NF.



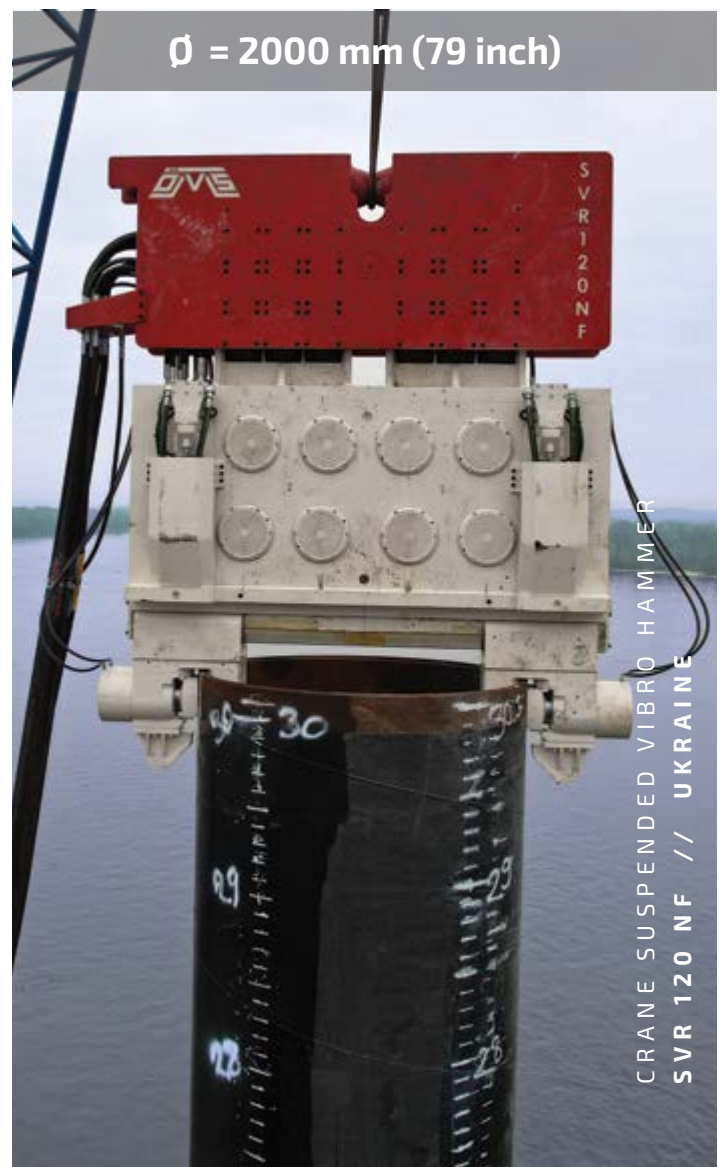
## High Eccentric Moment and Vibration Amplitude...

SVR series are designed to drive and extract all types of piles including sheet, tube (casing), also H - beam, I - beam, and steel plates.

SVR series is recommended in projects requiring a high driving or extracting force. SVR type vibro hammers are powered by OMS Power Packs, which have equipped with remote control and touch screen control panels.

### Advantages

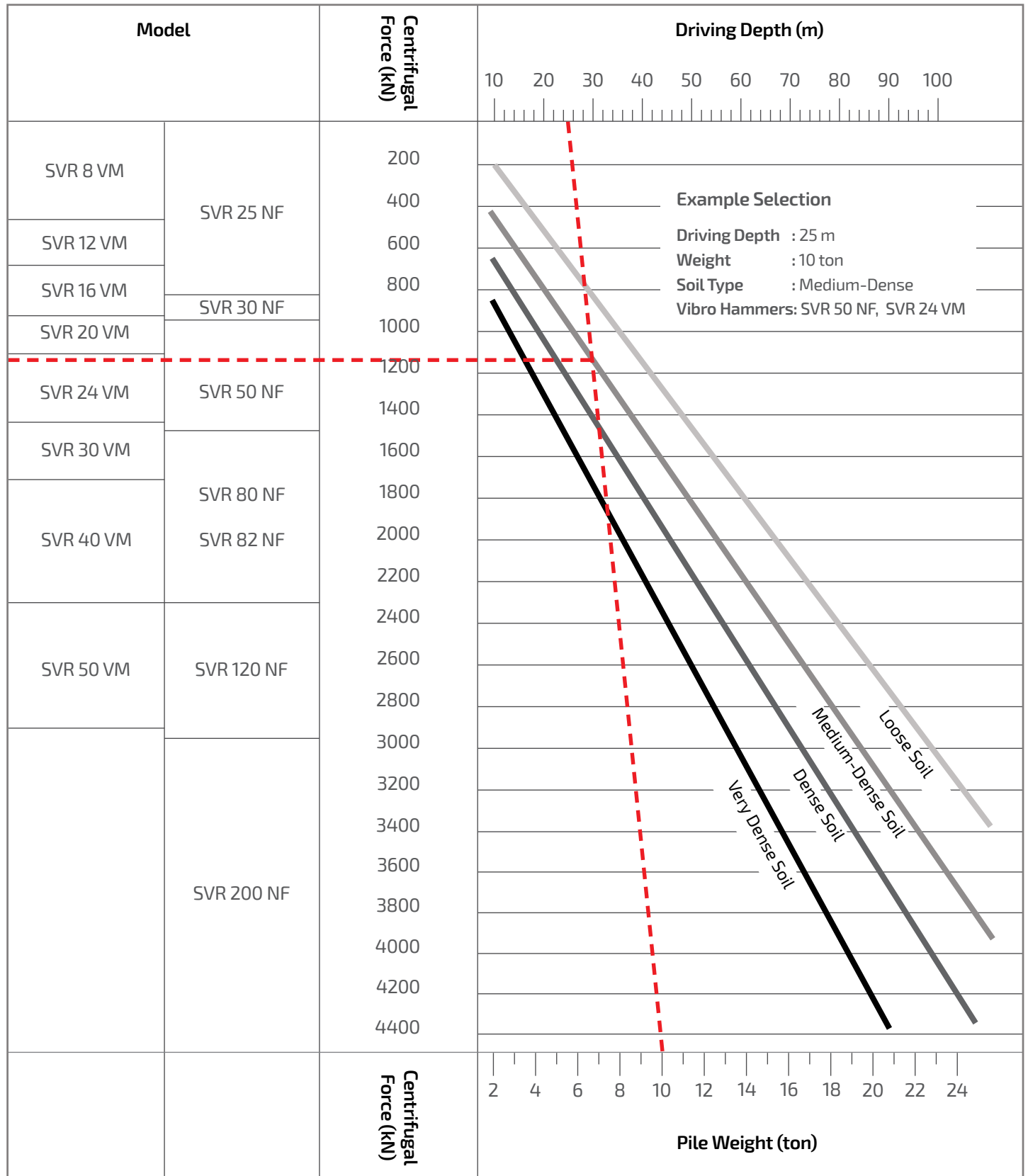
- Various clamp types to suit all pile types,
- High eccentric moment and vibration amplitude,
- Adjustment of power settings and monitoring of the process through the control system,
- Powerful, reliable and long life.



$\varnothing = 2000 \text{ mm (79 inch)}$

# Selection Chart

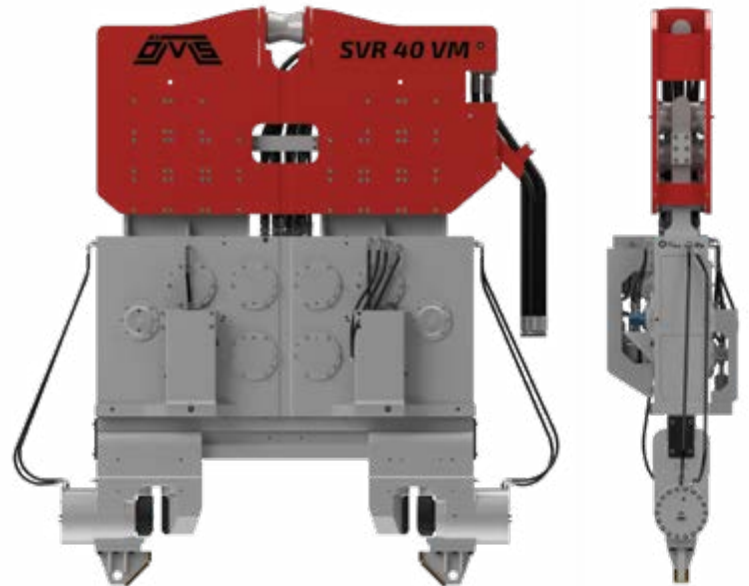
## Crane Suspended Vibro Hammers



# SVR Series

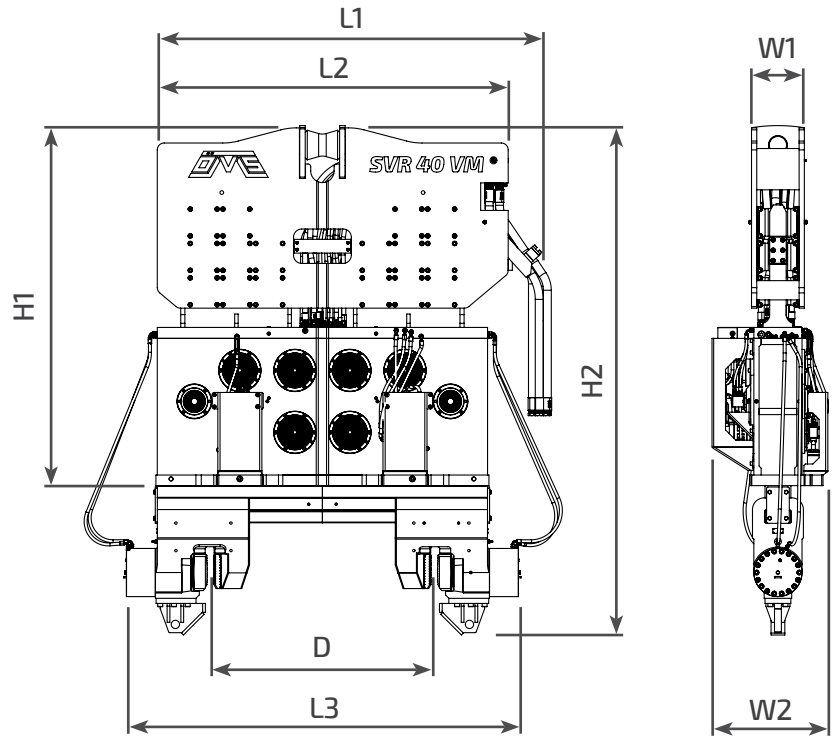
Crane Suspended Vibro Hammers

## Variable Moment (VM)



### Metric System

Technical Specifications	8 VM	12 VM	16 VM	20 VM	24 VM	30 VM	40 VM	50 VM
Eccentric Moment (kgm)	0 - 8	0 - 12	0 - 16	0 - 20	0 - 24	0 - 30	0 - 40	0 - 50
Centrifugal Force (kN) Max.	464	698	934	1166	1370	1746	2348	2923
Frequency (rpm)	2300	2300	2300	2300	2300	2300	2300	2300
Oil Flow (lpm)	176	362	492	500	675	767	934	1380
Power (kW)	103	211	287	292	394	448	548	805
Amplitude (mm)	12	13	12	13	15	13	16	16
Pulling Force (kN)	147	235	235	471	471	706	942	1060
<b>Weight and Dimensions</b>								
Dyn. Weight W/O Clamp (kg)	1337	1850	2733	3000	3252	3785	5094	6400
Total Weight W/O Clamp (kg)	1857	2570	3650	4280	4523	5700	7603	8900
Length / L1 (mm)	1490	1695	1925	2060	2060	2210	2797	3135
Length / L2 (mm)	1190	1395	1750	1840	1840	1990	2550	2790
Length / L3 (mm)	1521	1822	1945	2002	2002	2248	2849	3085
Height / H1 (mm)	1566	1660	2002	2115	2115	2460	2616	2450
Height / H2 (mm)	2312	2407	2675	3005	3005	3400	3700	3539
Width / W1 (mm)	300	301	321	388	388	388	384	388
Width / W2 (mm)	471	511	650	635	655	708	841	862
Throat Width (mm)	320	320	314	343	360	390	360	360
<b>Clamps for Sheet Piles</b>								
	SCN 60	SCN 100	SCN 120	SCN 165	SCN 165	SCN 200	SCN 350	SCN 350
Clamping Force (kN)	643	1005	1216	1700	1700	2262	3560	3560
Weight (kg)	327	620	851	866	866	1195	2560	2560
<b>Clamps for Casing</b>								
	KCN 45x2	KCN 45x2	KCN 60x2	KCN 90x2	KCN 90x2	KCN 120x2	KCN 185x2	KCN 185x2
Diameter (min.-max.) / D (mm)	350 - 700	350 - 970	360 - 1020	520 - 1020	520 - 1020	620 - 1020	600 - 1600	600 - 1800
Clamping Force (kN)	465 x 2	465 x 2	643 x 2	890 x 2	890 x 2	1216 x 2	1858 x 2	1858 x 2
Weight (kg)	185 x 2	185 x 2	307 x 2	538 x 2	538 x 2	948 x 2	1164 x 2	1164 x 2
<b>Recommended Power Pack</b>								
	PP 218	PP 320	PP 422	PP 536	PP 536	PP 768	PP 1072	PP 1536
Output (kW)	160	235	310	394	394	565	394 x 2	565 x 2



## Imperial System

Technical Specifications	8 VM	12 VM	16 VM	20 VM	24 VM	30 VM	40 VM	50 VM
Eccentric Moment (in.lbs)	0 - 694	0 - 1042	0 - 1389	0 - 1736	0 - 2083	0 - 2604	0 - 3472	0 - 4340
Centrifugal Force Max. (tons)	52	78	105	131	154	196	264	329
Frequency (rpm)	2300	2300	2300	2300	2300	2300	2300	2300
Oil Flow (gpm)	46	96	130	132	179	203	247	365
Power (hP)	138	283	385	392	528	601	735	1080
Amplitude (in)	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.6
Pulling Force Max.	17	26	26	53	53	79	106	120
<b>Weight and Dimensions</b>								
Dyn. Weight W/O Clamp (lbs)	2948	4079	6025	6614	7169	8345	11230	14109
Total Weight W/O Clamp (lbs)	4094	5666	8047	9436	9972	12566	16762	19621
Length / L1 (in)	59	67	76	81	81	87	110	123
Length / L2 (in)	47	55	69	72	72	78	100	110
Length / L3 (in)	60	72	77	79	79	89	112	121
Height / H1 (in)	62	65	79	83	83	97	103	96
Height / H2 (in)	91	95	105	118	118	134	146	139
Width / W1 (in)	12	12	13	15	15	15	15	15
Width / W2 (in)	19	20	26	25	26	28	33	34
Throat Width (in)	12.6	12.6	12.4	13.5	14.2	15.4	14.2	14.2
<b>Clamps for Sheet Piles</b>								
	SCN 60	SCN100	SCN 120	SCN 165	SCN 165	SCN 200	SCN 350	SCN 350
Clamping Force (tons)	72	113	137	191	191	254	400	400
Weight (lbs)	721	1367	1876	1909	1909	2635	5644	5629
<b>Clamps for Casing</b>								
	KCN 45x2	KCN 45x2	KCN 60x2	KCN 90x2	KCN 90x2	KCN 120x2	KCN 185x2	KCN 185x2
Diameter (min.-max.)/D (in)	14 - 28	14 - 38	14 - 40	20 - 40	20 - 40	24 - 40	24 - 63	24 - 71
Clamping Force (tons)	52x2	52x2	73x2	92x2	100x2	137x2	209x2	209x2
Weight (lbs)	408x2	408x2	677x2	1186x2	1186x2	2090x2	2567x2	2567x2
<b>Recommended Power Pack</b>								
	PP 218	PP 320	PP 422	PP 536	PP 536	PP 768	PP 1072	PP 1536
Output (hP)	218	320	422	536	536	768	536 x 2	768 x 2



VARIABLE MOMENT VIBRO HAMMER  
SVR 24 VM // RUSSIA

## Principle of Resonance - Free Starting and Stopping Vibration Case

The "Phase Shifter Mechanism" patented by OMS, displaces the eccentric masses and allows the adjustment of the amplitude.



### Eccentric Masses in Balance State

The phase shifter changes the position of eccentric masses to the balance situation by remote control or control panel which means no resonance.

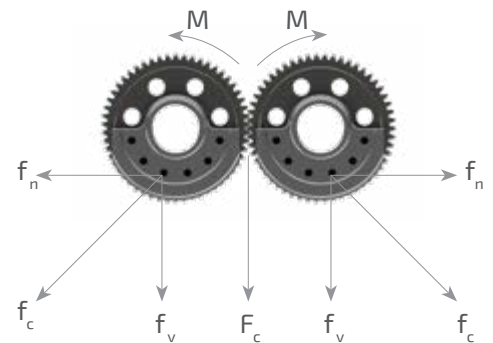
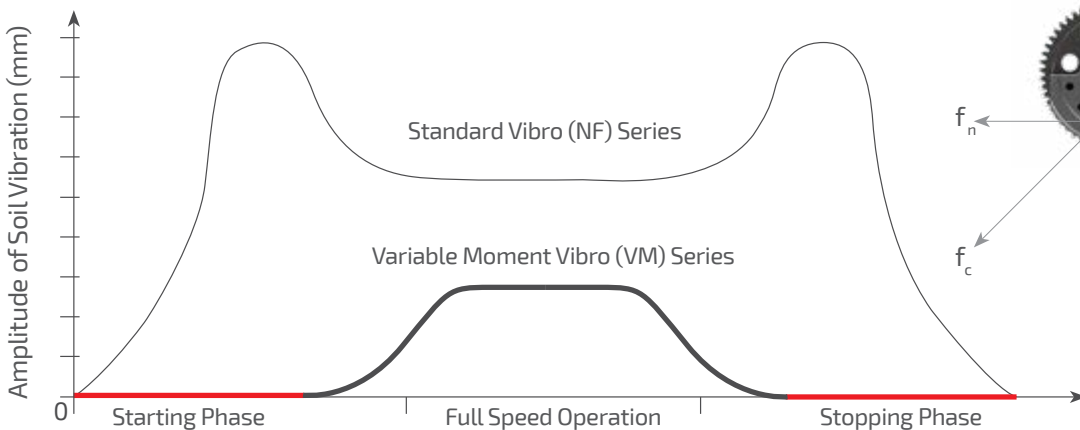


### Eccentric masses shifting to unbalance state from balance state

The phase shifter changes the position of eccentric masses from 0° to 180° so that the vibratory pile driver can work at maximum amplitude.



### Eccentric Masses in Unbalance State (180° Full Power)



**Amplitude / eccentric moment can easily be adjusted between its minimum and maximum by variable moment technology.**

The variable moment technology (phase shifter mechanism) of SVR Variable Moment Vibratory Hammers is to adjust the position of eccentric masses with respect to the resonance free starting and stopping of vibration case.

Scan the code with your mobile camera or with a QR reader app to watch the working video of SVR 24 VM.



### Advantages

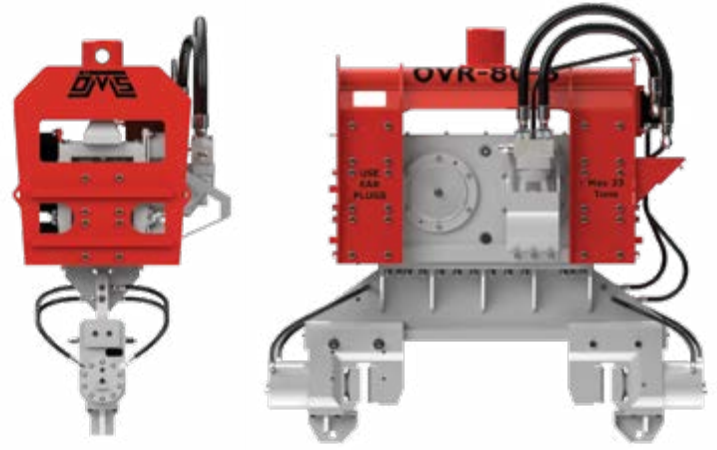
- Environmentally friendly technology,
- Controlled amplitude by means of adjustable eccentric moment,
- Resonance free start - stop,
- Optimum force application to the ground through variable moment feature,
- Minimized sound transmission through high-capacity anti-vibration mounts,
- Powerful, reliable and long life.

VARIABLE MOMENT VIBRO HAMMER  
SVR 24 VM // USA

# OVR Series

Excavator Mounted Vibro Hammers

## Standard (S)



### Metric System

Technical Specifications	20 S	40 S	50 S	60 S	70 S	80 S	120 S
Eccentric Moment (kgm)	2.1	4	5.2	6.3	7.3	9	12.3
Centrifugal Force (kN)	140	276	354	434	502	615	838
Frequency (rpm)	2500	2500	2500	2500	2500	2500	2500
Oil Flow (lpm)	62	100	150	201	233	275	313
Power (kW)	33	53	80	107	124	147	167
Amplitude (mm)	16	15	14	16	16	14	19
Pulling Force (kN) Max.	59	88	147	147	147	235	235

### Weight and Dimensions

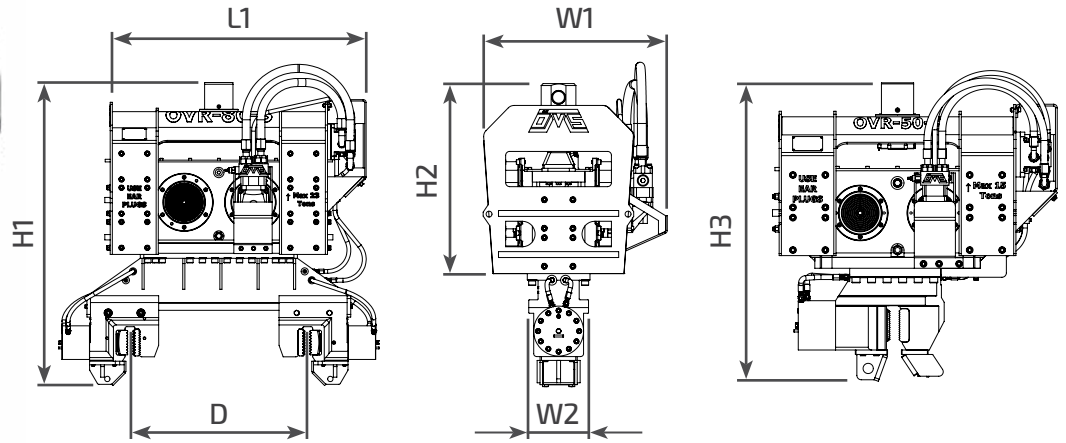
Dyn. Weight W/O Clamp (kg)	270	534	749	771	929	1255	1292
Total Weight W/O Clamp (kg)	384	786	1080	1096	1253	1740	1798
Length / L1 (mm)	755	1200	1282	1282	1343	1473	1506
Height / H1 (mm)	-	-	-	1581	1639	1716	1850
Height / H2 (mm)	891	762	835	835	893	970	1030
Height / H3 (mm)	1226	1203	1344	1344	1402/1476	1553	1647
Width / W1 (mm)	456	735	778	778	804	890	842

Clamps for Sheet Piles	SCN 20	SCN 30	SCN 60	SCN 60	SCN 60/75	SCN 75	SCN 100
Width / W2 (mm)	220	230	320	320	320 / 320	320	320
Clamping Force (kN)	203	304	643	643	643 / 814	814	1005
Weight (kg)	88	192	327	327	327 / 502	502	620

Clamps for Casing	-	-	-	KCN 45x2	KCN 45x2	KCN 45x2	KCN 60 x 2
Diameter (min.-max.) / D (mm)	-	-	-	350 - 670	350 - 670	350 - 970	360 - 940
Clamping Force (kN)	-	-	-	465 x 2	465 x 2	465 x 2	643 x 2
Weight (kg)	-	-	-	185 x 2	185 x 2	185 x 2	307 x 2

### Recommended Excavator Working Weight (ton)

	6 - 12	18 - 22	24 - 26	25 - 30	30 - 36	36 - 40	40 - 50
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## Imperial System

Technical Specifications	20 S	40 S	50 S	60 S	70 S	80 S	120 S
Eccentric Moment (lbs.in)	182	347	451	547	634	781	1068
Centrifugal Force (tons)	16	31	40	49	56	69	94
Frequency (rpm)	2500	2500	2500	2500	2500	2500	2500
Oil Flow (gpm)	16	26	40	53	62	73	83
Power (hP)	44	71	107	143	166	197	224
Amplitude (in)	0.6	0.6	0.6	0.6	0.6	0.6	0.7
Pulling Force (tons) Max.	7	10	17	17	17	26	26

## Weight and Dimensions

Dyn. Weight W/O Clamp (lbs)	595	1177	1651	1700	2048	2767	2848
Total Weight W/O Clamp (lbs)	847	1733	2381	2416	2762	3836	3964
Length / L1 (in)	30	47	50	50	53	58	59
Height / H1 (in)	-	-	-	62	65	68	73
Height / H2 (in)	35	30	33	33	35	38	41
Height / H3 (in)	48	47	53	53	55/58	61	65
Width / W1 (in)	18	29	31	31	32	35	33

Clamps for Sheet Piles	SCN 20	SCN 30	SCN 60	SCN 60	SCN 60 / 75	SCN 75	SCN 100
Width / W2 (in)	9	9	13	13	13 / 13	13	13
Clamping Force (tons)	23	34	72	72	72 / 92	92	113
Weight (lbs)	194	423	721	721	721 / 1107	1107	1367

Clamps for Casing	-	-	-	KCN 45x2	KCN 45x2	KCN 45x2	KCN 60 x 2
Diameter (min.-max.) / D (in)	-	-	-	14 - 26	14 - 26	14 - 38	14 - 37
Clamping Force (tons)	-	-	-	52x2	52x2	52x2	145
Weight (lbs)	-	-	-	408x2	408x2	408x2	1354

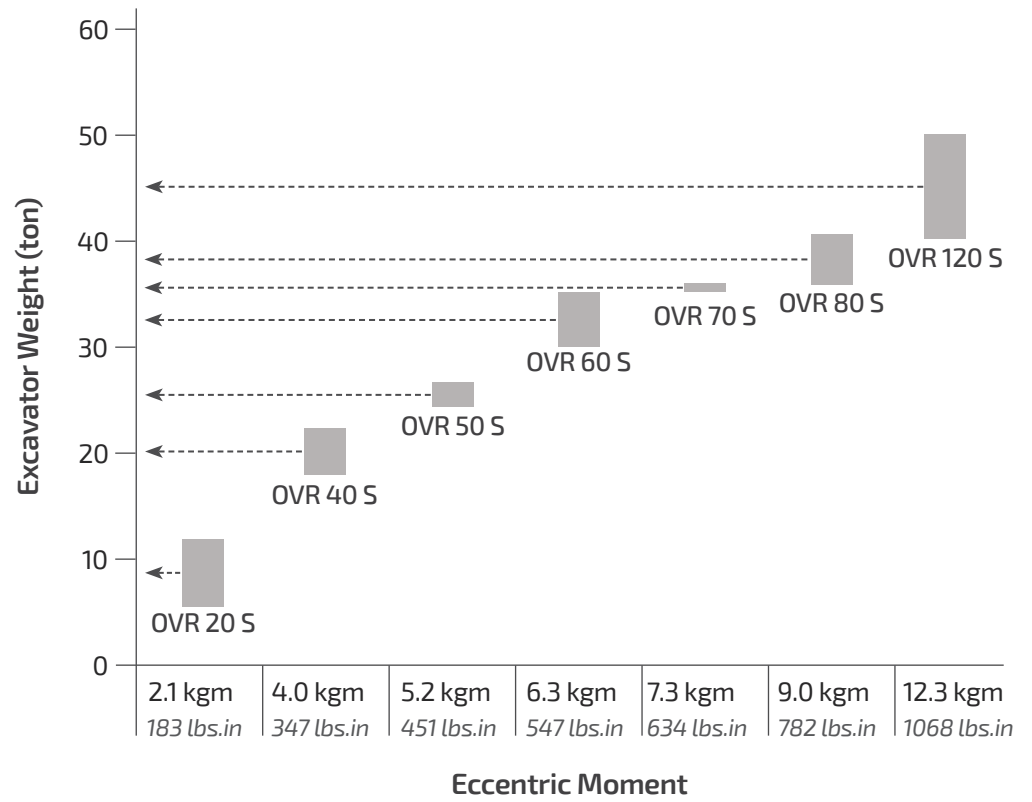
## Recommended Excavator Working Weight (ton)

	6 - 12	18 - 22	24 - 26	25 - 30	30 - 36	36 - 40	40 - 50
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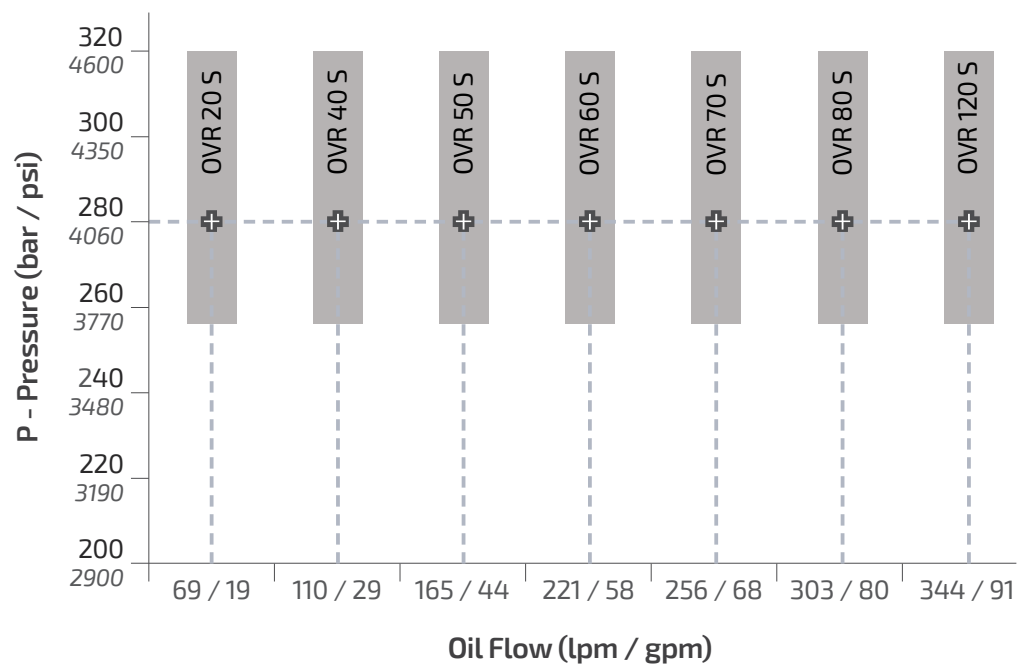


EXCAVATOR MOUNTED VIBRO HAMMER  
OVR 50 S // ITALY

## Selection Chart Excavator Mounted Vibro Hammers

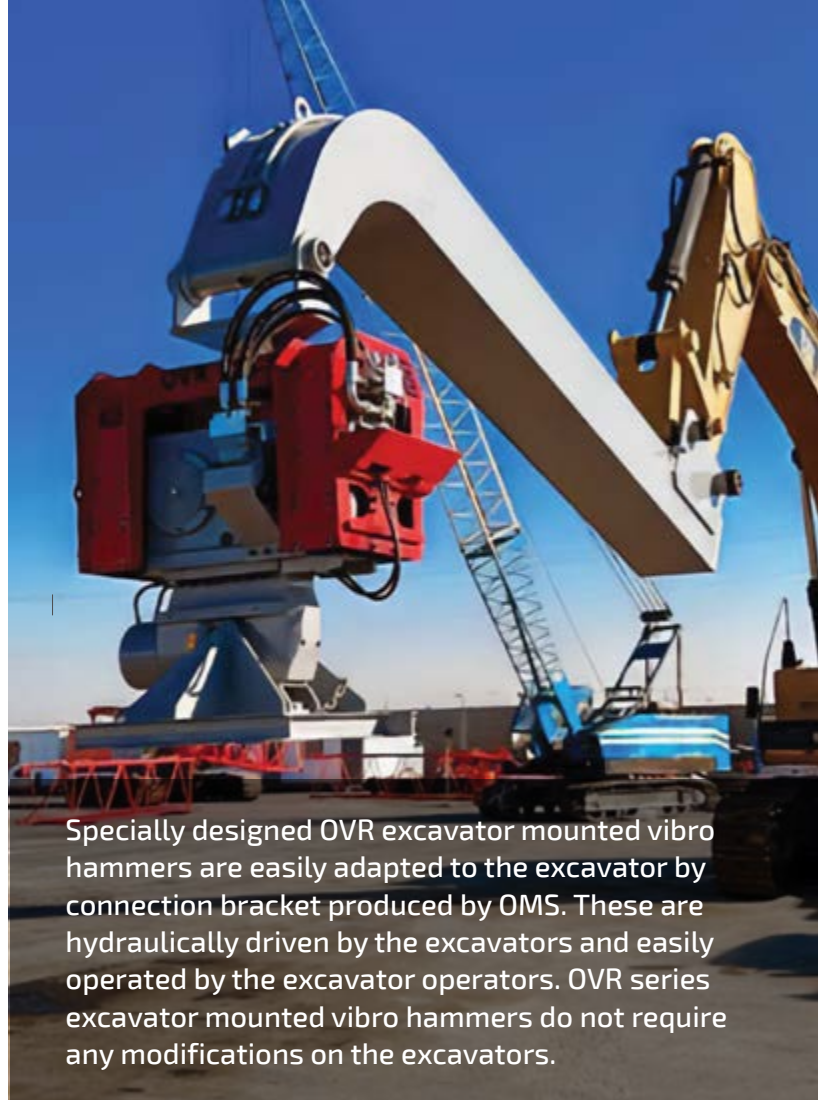


## Oil Pressure & Oil Flow (Optimum) Excavator Mounted Vibro Hammers





EXCAVATOR MOUNTED VIBRO HAMMER  
OVR 120 S // SAUDI ARABIA



Specially designed OVR excavator mounted vibro hammers are easily adapted to the excavator by connection bracket produced by OMS. These are hydraulically driven by the excavators and easily operated by the excavator operators. OVR series excavator mounted vibro hammers do not require any modifications on the excavators.

## High Performance and Pile Driving / Extracting Power!..

With its ergonomic design and high performance, OMS excavator mounted vibro hammers with various capacities provide long lasting, problem free piling applications.

OVR series vibro hammers can be used with all types of piles by means of OMS hydraulic clamps and, thus provide time and cost efficiency.

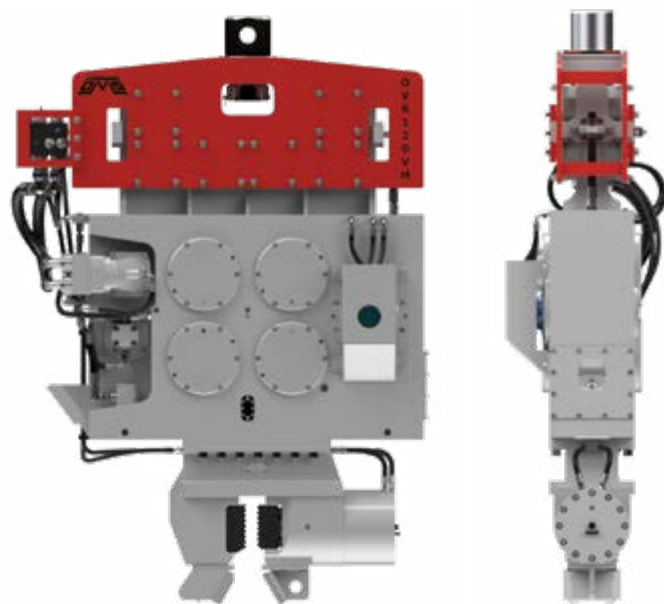
### Advantages

- Wide range of products,
- Fast, reliable and easy excavator connection,
- Ergonomic design providing practical use,
- Safe movement around link yoke,
- High-performance and driving/extracting power,
- Minimum vibration transmission to its surrounding.
- Double or single clamping the steel tube piles can be driven easily and powerfully,
- Powerful, reliable and long-life.

# OVR Series

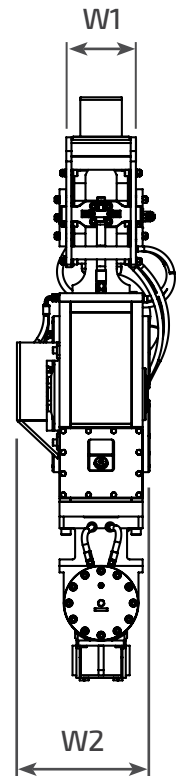
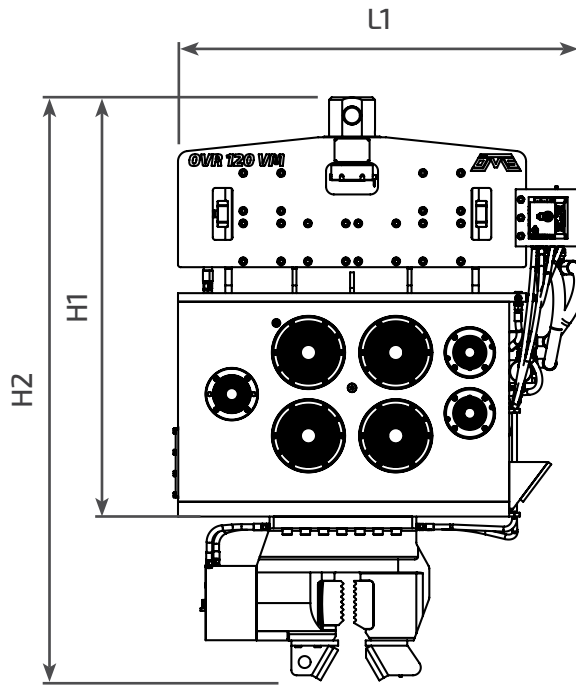
Excavator Mounted Vibro Hammers

## Variable Moment (VM)



### Metric System

Technical Specifications	OVR 80 VM	OVR120VM
Eccentric Moment	0 - 8	0 - 12
Centrifugal Force	464	698
Frequency (rpm)	2300	2300
Oil Flow (lpm)	176	362
Power (kW)	103	193
Amplitude (mm)	12	14
Pulling Force (kN) Max.	147	177
Weight and Dimensions		
Dyn. Weight W/O Clamp (kg)	1337	1750
Total Weight W/O Clamp (kg)	1650	2160
Length / L1 (mm)	1280	1566
Height / H1 (mm)	1680	1614
Height / H2 (mm)	2075	2245
Width / W1 (mm)	255	314
Width / W2 (mm)	471	511
Clamps for Sheet Piles	SCN 60	SCN 100
Clamping Force (kN)	643	1005
Weight (kg)	327	620
Clamps for Casing	KCN 45x2	KCN 45x2
Diameter (min.-max.) / D (mm)	350 - 970	350 - 970
Clamping Force (kN)	465 x 2	465 x 2
Weight (kg)	185 x 2	185 x 2
Recommended Excavator Working Weight (ton)		
	36 - 40	40 - 50



## Imperial System

Technical Specifications	OVR 80 VM	OVR120 VM
Eccentric Moment (in.lbs)	0 - 694	0 - 1042
Centrifugal Force (tons)	52	78
Frequency (rpm)	2300	2300
Oil Flow (gpm)	46	96
Power (hP)	138	259
Amplitude (in)	0.5	0.6
Pulling Force (tons) Max.	17	20

### Weight and Dimensions

Dyn. Weight W/O Clamp (lbs)	2948	3858
Total Weight W/O Clamp (lbs)	3637	4762
Length / L1 (in)	50	62
Height / H1 (in)	66	64
Height / H2 (in)	82	88
Width / W1 (in)	10	12
Width / W2 (in)	19	20

Clamps for Sheet Piles	SCN 60	SCN 100
Clamping Force (tons)	72	113
Weight (lbs)	721	1367

Clamps for Casing	KCN 45x2	KCN 45x2
Diameter (min.-max.) / D (in)	14 - 38	14 - 38
Clamping Force (tons)	52x2	52x2
Weight (lbs)	408x2	408x2

### Recommended Excavator Working Weight (ton)

	36 - 40	40 - 50
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Amplitude / eccentric moment can easily be adjusted between its minimum and maximum by variable moment technology.

The variable moment technology (phase shifter mechanism) of OVR Variable Moment Vibratory Hammers is to adjust the position of eccentric masses with respect to the resonance free starting and stopping of vibration case.

Scan the code with your mobile camera or with a QR reader app to watch the working video of OVR 70 VM.



VARIABLE MOMENT VIBRO HAMMER  
OVR 70 VM // TURKIYE

**Suitable for near historical buildings to use with variable (resonance - free) models.**

### **Advantages**

- Environmentally friendly technology,
- Controlled amplitude by means of adjustable eccentric moment,
- Resonance free start - stop,
- Optimum force application to the ground through variable moment feature,
- Minimized sound transmission through high-capacity anti-vibration mounts,
- Powerful, reliable and long life.



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*OMS Vibro Website*

*SVR 40 VM Video*



### OMS Pile Driving Equipment

✉ [oms@omsvibro.com](mailto:oms@omsvibro.com)

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#### OMS Vibro Hammer Catalog

OMS has the right to change indicated technical data without prior notice.

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