



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.

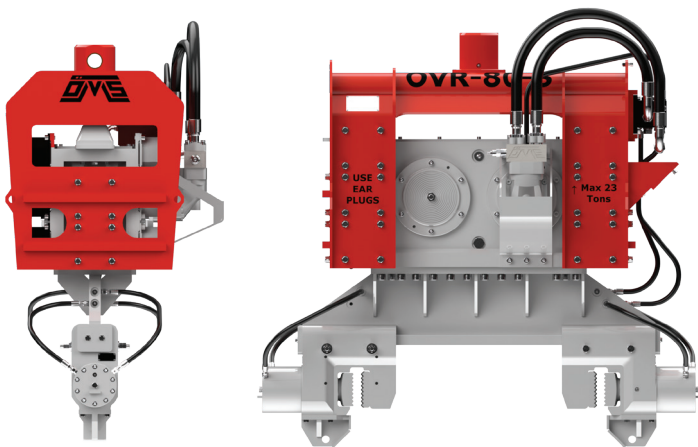
Advantages

- 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

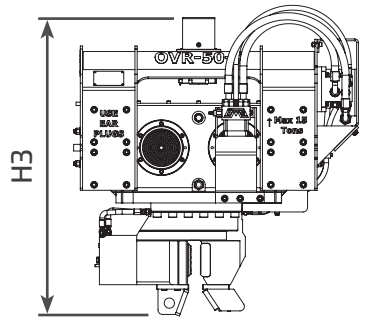
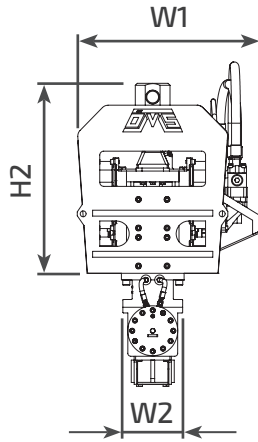
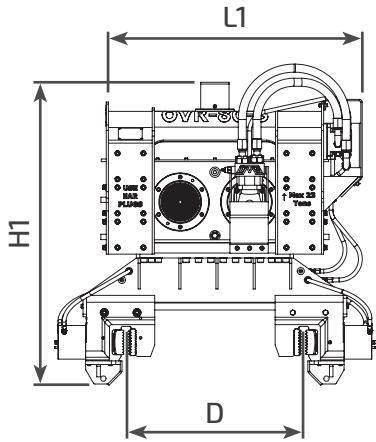
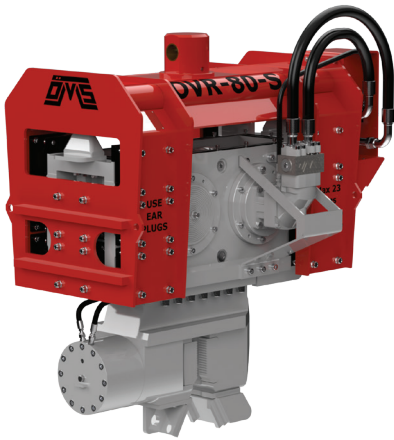
Excavator Mounted Vibro Hammers

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
Centrifugal Force (kN) Max.	170	334	428	525	607	744	1015
Frequency (rpm)	2500	2500	2500	2500	2500	2500	2500
Frequency (rpm) Max.	2750	2750	2750	2750	2750	2750	2750
Oil Flow (lpm)	62	100	150	201	233	275	313
Oil Flow (lpm) Max.	69	110	165	221	256	303	344
Power (kW)	33	53	80	107	124	147	167
Power (kW) Max.	37	59	88	118	137	162	183
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 40x2	KCN 40x2	KCN 40x2	KCN 60 x 2
Diameter (min.-max.) / D (mm)	-	-	-	350 - 670	350 - 670	350 - 970	360 - 940
Clamping Force (kN)	-	-	-	425 x 2	425 x 2	425 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



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
Centrifugal Force (tons) Max.	19	38	48	59	68	84	114
Frequency (rpm)	2500	2500	2500	2500	2500	2500	2500
Frequency (rpm) Max.	2750	2750	2750	2750	2750	2750	2750
Oil Flow (gpm)	16	26	40	53	62	73	83
Oil Flow (gpm) Max.	18	29	44	58	68	80	91
Power (hP)	44	71	107	143	166	197	224
Power (hP) Max.	50	79	118	158	184	217	245
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 40x2	KCN 40x2	KCN 40x2	KCN 60 x 2
Diameter (min.-max.) / D (in)	-	-	-	14 - 26	14 - 26	14 - 38	14 - 37
Clamping Force (tons)	-	-	-	48x2	48x2	48x2	145
Weight (lbs)	-	-	-	408x2	408x2	408x2	1354

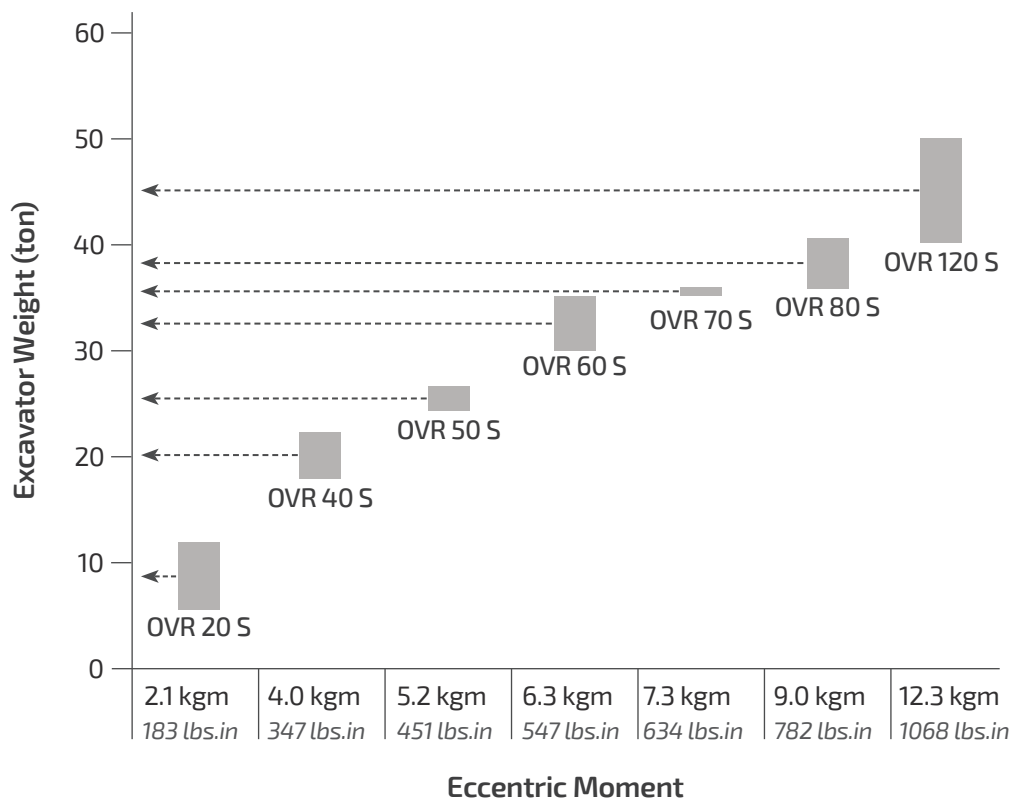
Recommended Excavator Working Weight (ton)	6 - 12	18 - 22	24 - 26	25 - 30	30 - 36	36 - 40	40 - 50
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EXCAVATOR MOUNTED VIBRO HAMMER
OVR 50 S // ITALY

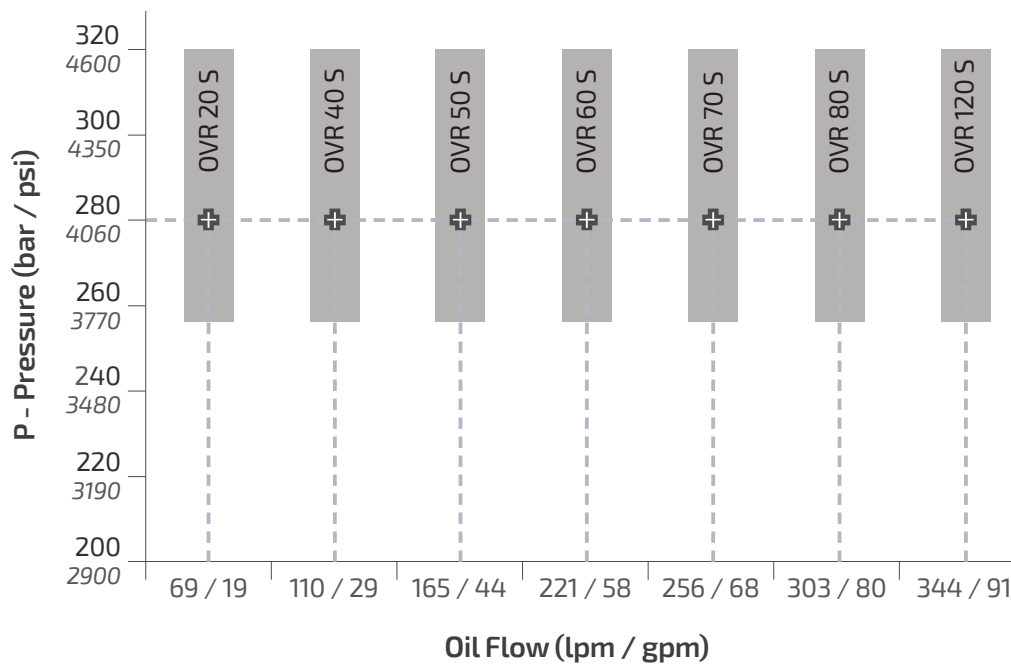
Selection Chart

Excavator Mounted Vibro Hammers



Oil Pressure & Oil Flow (Optimum)

Excavator Mounted Vibro Hammers





OMS PILE DRIVING EQUIPMENT GMBH.

EXCAVATOR CONNECTION SCHEME

OVR S SERIES

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Required Pressure (P) and Flow Rate (Q)

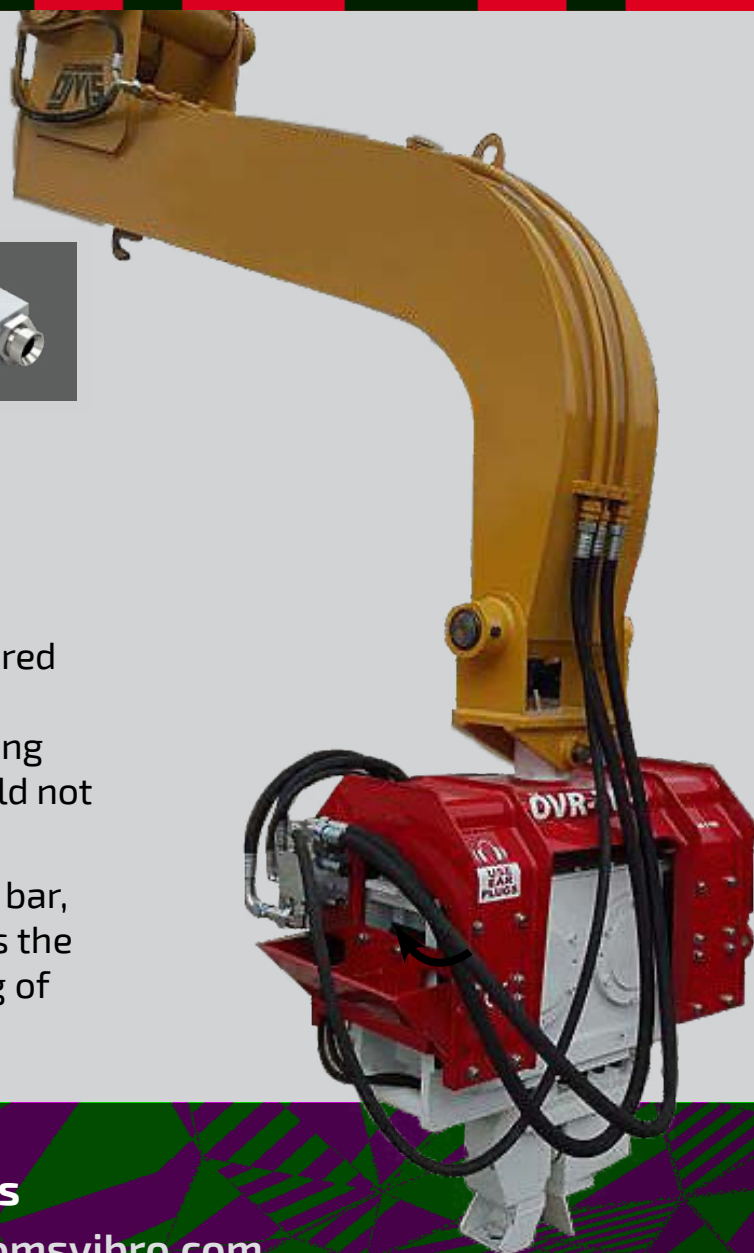
Vibro Hammer	P (Bar) Q	(lpm)
OVR 20 S	280 - 320	62
OVR 40 S	280 - 320	100
OVR 50 S	280 - 320	150
OVR 60 S	280 - 320	201
OVR 70 S	280 - 320	233
OVR 80 S	280 - 320	275
OVR 120 S	280 - 320	313

Flowmeter



Install flowmeter between excavator and vibrator
Pressure (P) and **Return (R)** line hoses. Adjust and set required pressure and flow rate with excavator main pump's adjusting valve. **Drain (D)** pressure should not exceed 8 bar.

If the drain pressure exceed 8 bar, the rain line relief valve relieves the pressure to prevent damaging of hydraulic motor rod seal.



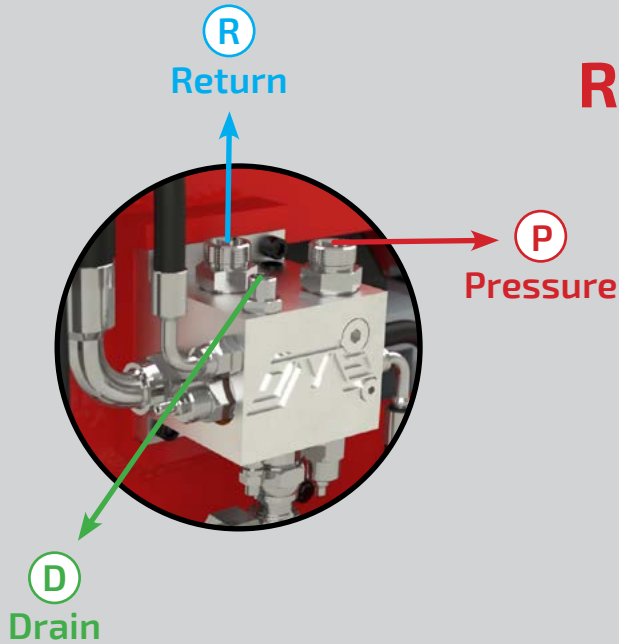
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RIGGING OF VIBRATOR

EXCAVATOR PREPARATION

- Remove bucket pivot pin, bucket link pin and bucket.
- Remove bucket linkage pin from stick (dipper arm) and bucket cylinder pin (rod end). Remove the bucket linkage.



INSTALLATION

Move excavator to the vibrator location. Lift, and safely support the vibrator in a vertical position.

Check the yoke to be sure that the ears fit onto the excavator stick in the area of the bucket pivot.

Check the fit of the yoke pin in the bucket pivot bore on the stick.

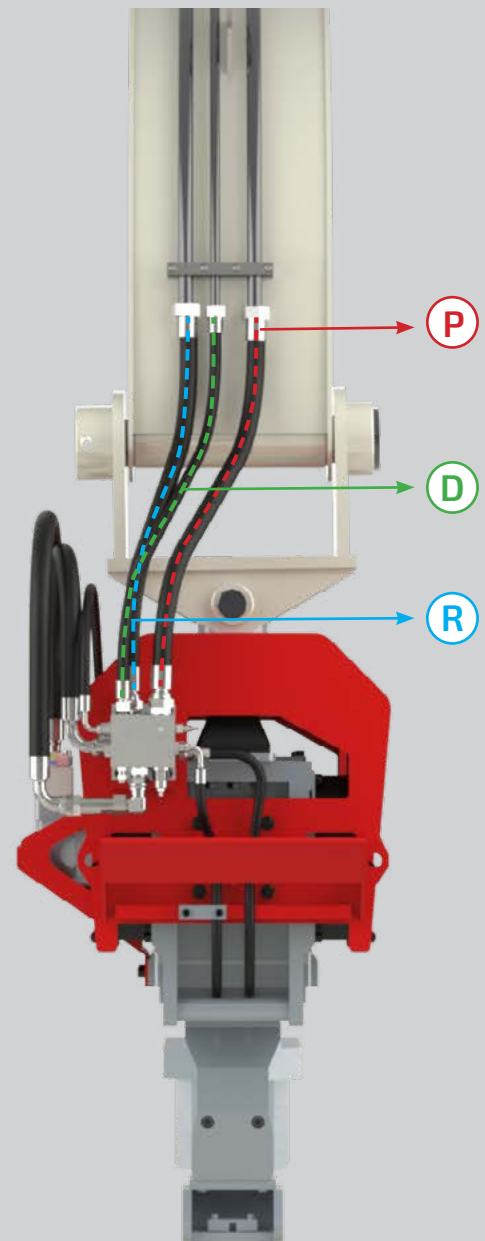
If all fits are correct, connect the yoke to the excavator stick.

Fully retract the bucket cylinder and turn off excavator.

Disconnect the bucket cylinder hoses and plug them with proper size plug.

Remove the plugs (P, R and D) from the manifold and install the excavator hoses to vibrator and tighten. Use below picture for reference.

To bleed the air from hoses, loosen the hoses at the clamp cylinder (approximately one turn). Run the excavator on low speed, move the bucket lever/joy stick slightly to close clamp. Wait until oil flows from the connection at the clamp. When oil flows without air, tighten the connection.



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OMS Vibro Website



OVR Animation



OMS Pile Driving Equipment GmbH.

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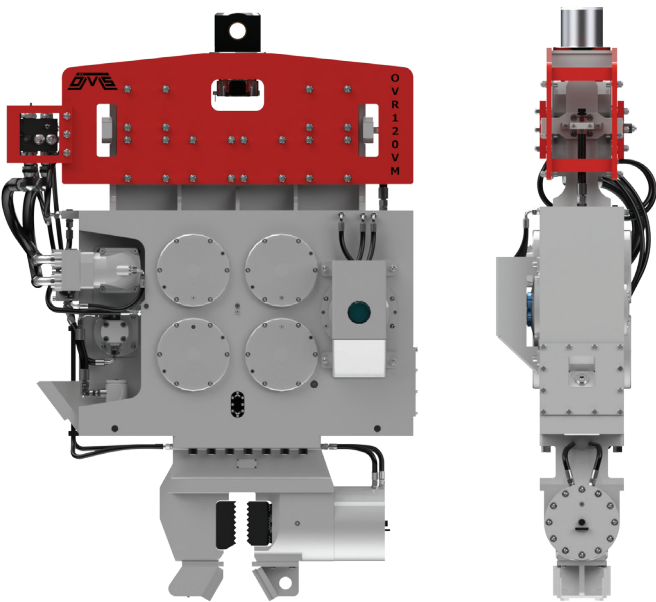
OMS Vibro Hammer - Excavator Connection Scheme
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OVR Series

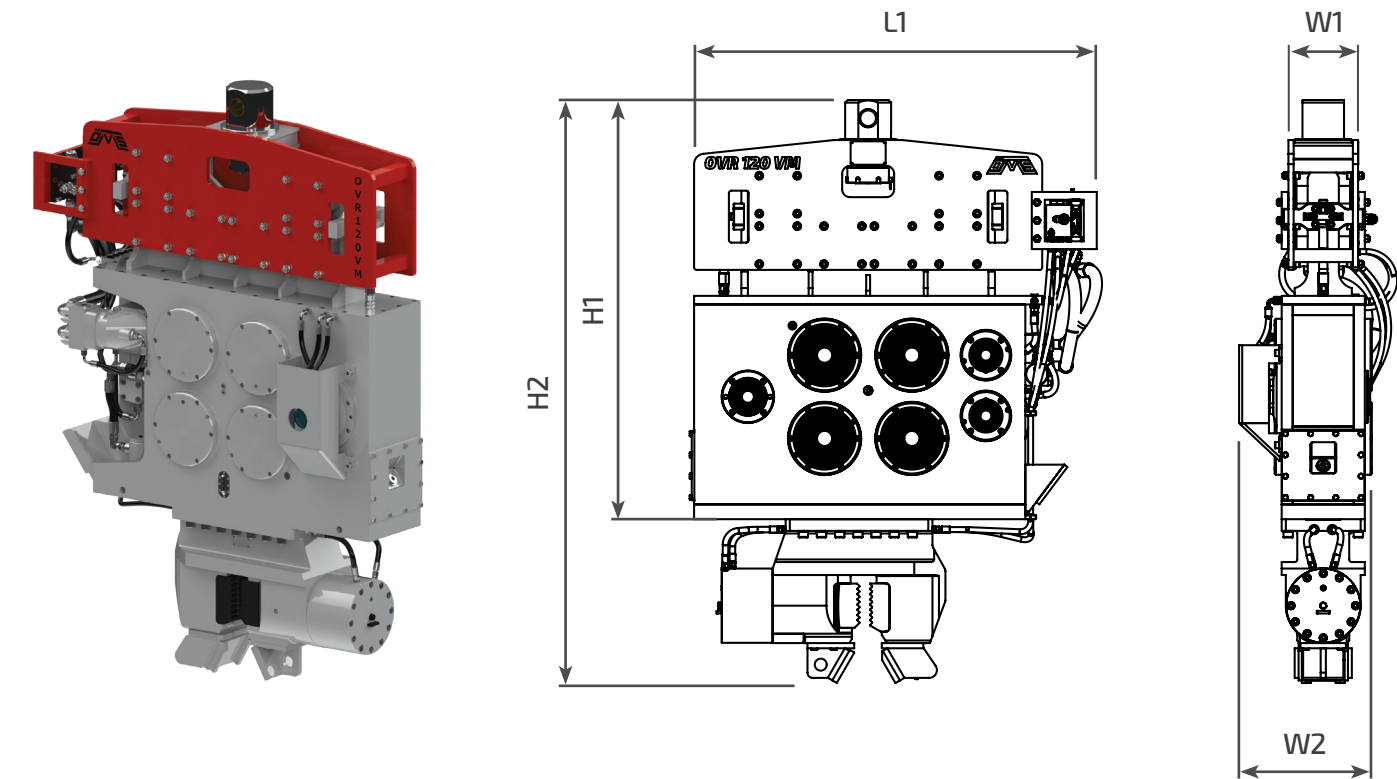
Excavator Mounted Vibro Hammers

Variable Moment (VM)



Metric System

Technical Specifications	OVR 80 VM	OVR120VM
Eccentric Moment (kgm) Max.	0 - 8	0 - 12
Centrifugal Force (kN) Max.	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 40x2	KCN 40x2
Diameter (min.-max.) / D (mm)	350 - 970	350 - 970
Clamping Force (kN)	425 x 2	425 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) Max.	0 - 694	0 - 1042
Centrifugal Force (tons) Max.	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 40x2	KCN 40x2
Diameter (min.-max.) / D (in)	14 - 38	14 - 38
Clamping Force (tons)	48x2	48x2
Weight (lbs)	408x2	408x2
Recommended Excavator Working Weight (ton)		
	36 - 40	40 - 50



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.



VARIABLE MOMENT VIBRO HAMMER
ÖVR 70 VM // TURKIYE

