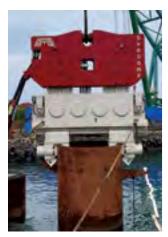


POWERFUL VIBRATORY PILE DRIVING EQUIPMENT BY OMS

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.

- Crane hanging, excavator mounted and side grip vibratory hammers,
- Vibroflot and wick drain installation machine,
- Hydraulic vibratory hammer from 2 kgm ~ 200 kgm, with centrifugal forces from 140 kN ~ 4380 kN.
- Combined with OMS power packs engine (kW/HP) up to 1170/1592,
- Wide range for various ground conditions and depths,
- Extensive range of accessories and clamps,
- Suitable for near historical buildings to use with variable (resonance - free) models,
- 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

Normal Frequency (NF) \longrightarrow Page 04 Variable Moment (VM) \longrightarrow Page 08

OVR Series

Excavator Mounted Vibro Hammer

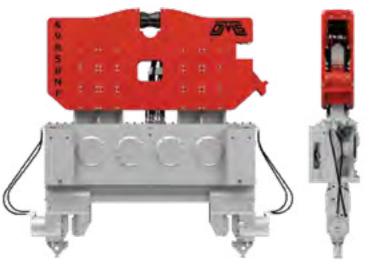
Standard (S) \longrightarrow Page 12 Variable Moment (VM) \longrightarrow Page 16

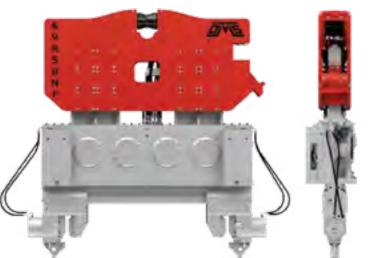


SVR Series

Crane Suspended Vibro Hammers

Normal Frequency (NF)

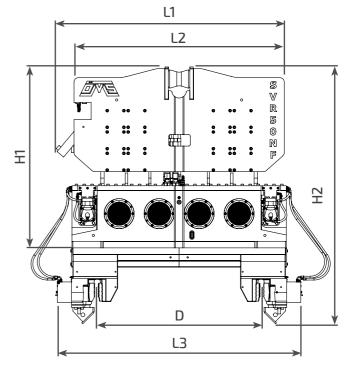


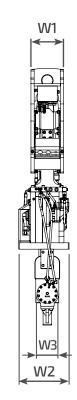


Metric System

| Technical Specifications | 25 NF | 30 NF | 50 NF | 80 NF | 120 NF | 200 NF |
|-----------------------------|------------|------------|------------|------------|------------|-------------|
| Eccentric Moment (kgm) | 25 | 32.6 | 50.2 | 82.6 | 120 | 203.2 |
| Centrifugal Force (kN) | 795 | 1036 | 1409 | 2318 | 2846 | 4380 |
| Frequency (rpm) | 1700 | 1700 | 1600 | 1600 | 1480 | 1400 |
| Oil Flow (lpm) | 366 | 421 | 605 | 959 | 1122 | 1792 |
| Power (kW) | 195 | 243 | 352 | 559 | 655 | 1045 |
| Amplitude (mm) | 22 | 24 | 24 | 23 | 26 | 19 |
| Pulling Force (kN) Max. | 470 | 590 | 706 | 1059 | 1059 | 1880 |
| Weight and Dimensions | | | • | | | |
| Dyn. Weight W/O Clamp (kg) | 2270 | 2750 | 4130 | 7109 | 9145 | 21700 |
| Total Weight W/O Clamp (kg) | 3100 | 4485 | 6150 | 10257 | 12172 | 26100 |
| Length / L1 (mm) | 1998 | 2599 | 2650 | 3315 | 3315 | 3660 |
| Length / L2 (mm) | 1796 | 2420 | 2460 | 3070 | 3070 | 3350 |
| Length / L3 (mm) | 1848 | 2812 | 2848 | 3410 | 3390 | _ |
| Height / H1 (mm) | 1610 | 2034 | 2117 | 2200 | 2682 | 3620 |
| Height / H2 (mm) | 2282 | 2704 | 2861 | 3615 | 3786 | _ |
| Width / W1 (mm) | 371 | 364 | 384 | 451 | 455 | 493 |
| Width / W2 (mm) | 550 | 575 | 590 | 761 | 728 | 2070 |
| Width / W3 (mm) | 250 | 250 | 292 | 370 | 370 | _ |
| Throat Width (mm) | 360 | 350 | 360 | 461 | 430 | 800 |
| Clamps for Sheet Piles | SCN 120 | SCN 120 | SCN 165 | SCN 350 | SCN 350 | - |
| Clamping Force (kN) | 1216 | 1216 | 1700 | 3560 | 3560 | - |
| Weight (kg) | 851 | 851 | 866 | 2553 | 2553 | _ |
| Clamps for Casing | KCN 60×2 | KCN 60x2 | KCN 90×2 | KCN 165×2 | KCN 185×2 | KCN 185x4 |
| Diameter (minmax.) / D (mm) | 340 - 1030 | 340 - 1900 | 460 - 1900 | 520 - 2100 | 520 - 2000 | 1000 - 3000 |
| Clamping Force (kN) | 643 x 2 | 643 x 2 | 890 x 2 | 1700 x 2 | 1858 x 2 | 1858 x 4 |
| Weight (kg) | 307 x 2 | 307 x 2 | 538 x 2 | 1164 x 2 | 1164x 2 | 1164 x 4 |
| Recommended Power Pack | PP 320 | PP 428 | PP 536 | PP 768 | PP 1072 | PP 1536 |
| Power (kW) | 235 | 315 | 394 | 565 | 394 x 2 | 565 x 2 |







Imperial System

| Technical Specifications | 25 NF | 30 NF | 50 NF | 80 NF | 120 NF | 200 NF |
|------------------------------|--|---------------------------------------|--|--|--|---------------------------------------|
| Eccentric Moment (in.lbs) | 2170 | 2830 | 4357 | 7170 | 10416 | 17637 |
| Centrifugal Force (tons) | 89 | 116 | 159 | 261 | 320 | 493 |
| Frequency (rpm) | 1700 | 1700 | 1600 | 1600 | 1480 | 1400 |
| Oil Flow (gpm) | 97 | 111 | 160 | 254 | 297 | 474 |
| Power (hP) | 262 | 326 | 472 | 750 | 878 | 1402 |
| Amplitude (in) | 0.9 | 0.9 | 0.9 | 0.9 | 1 | 0.7 |
| Pulling Force Max. (tons) | 53 | 66 | 80 | 119 | 119 | 212 |
| Weight and Dimensions | | • | ······································ | ······································ | • | |
| Dyn. Weight W/O Clamp (lbs) | 5004 | 6063 | 9105 | 15673 | 20162 | 47841 |
| Total Weight W/O Clamp (lbs) | 6834 | 9888 | 13559 | 22613 | 26835 | 57541 |
| Length / L1 (in) | 79 | 102 | 105 | 131 | 131 | 144 |
| Length / L2 (in) | 71 | 95 | 97 | 121 | 121 | 132 |
| Length / L3 (in) | 73 | 111 | 112 | 134 | 133 | - |
| Height / H1 (in) | 63 | 80 | 84 | 87 | 106 | 143 |
| Height / H2 (in) | 90 | 106 | 113 | 143 | 149 | - |
| Width / W1 (in) | 15 | 14 | 15 | 18 | 18 | 20 |
| Width / W2 (in) | 22 | 23 | 23 | 30 | 29 | 82 |
| Width / W3 (in) | 10 | 10 | 12 | 15 | 15 | - |
| Throat Width (in) | 14.2 | 13.8 | 14.2 | 18.2 | 16.9 | 31.5 |
| Clamps for Sheet Piles | SCN 120 | SCN 120 | SCN 165 | SCN 350 | SCN 350 | - |
| Clamping Force (tons) | 137 | 137 | 191 | 400 | 400 | - |
| Weight (lbs) | 1876 | 1876 | 1909 | 5629 | 5629 | - |
| Clamps for Casing | KCN 60×2 | KCN 60x2 | KCN 90x2 | KCN 165×2 | KCN 185x2 | KCN 185×4 |
| Diameter (minmax.)/D (in) | 14 - 41 | 14 - 75 | 18 - 75 | 21 - 83 | 21 - 83 | 40 - 118 |
| Clamping Force (tons) | 145 | 145 | 200 | 382 | 418 | 836 |
| Weight (lbs) | 1354 | 1354 | 2372 | 5133 | 5133 | 10264 |
| Recommended Power Pack | PP 320 | PP 428 | PP 536 | PP 768 | PP 1072 | PP 1536 |
| Power (hP) | 320 | 428 | 536 | 768 | 536 x 2 | 768 x 2 |
| • | ······································ | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | ······································ | ······································ | · · · · · · · · · · · · · · · · · · · |

OMS Pile Driving Equipment GmbH. / 5 4 / www.omsvibro.com



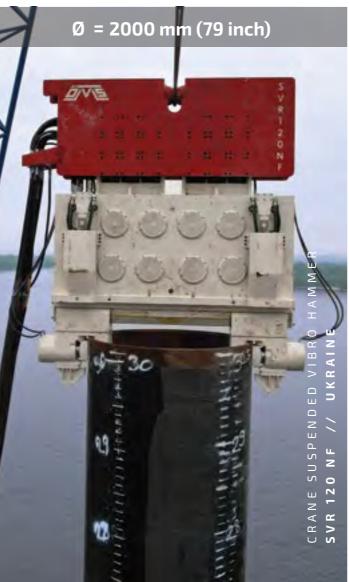
High Eccentric Moment and Vibration Amplitude...

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.

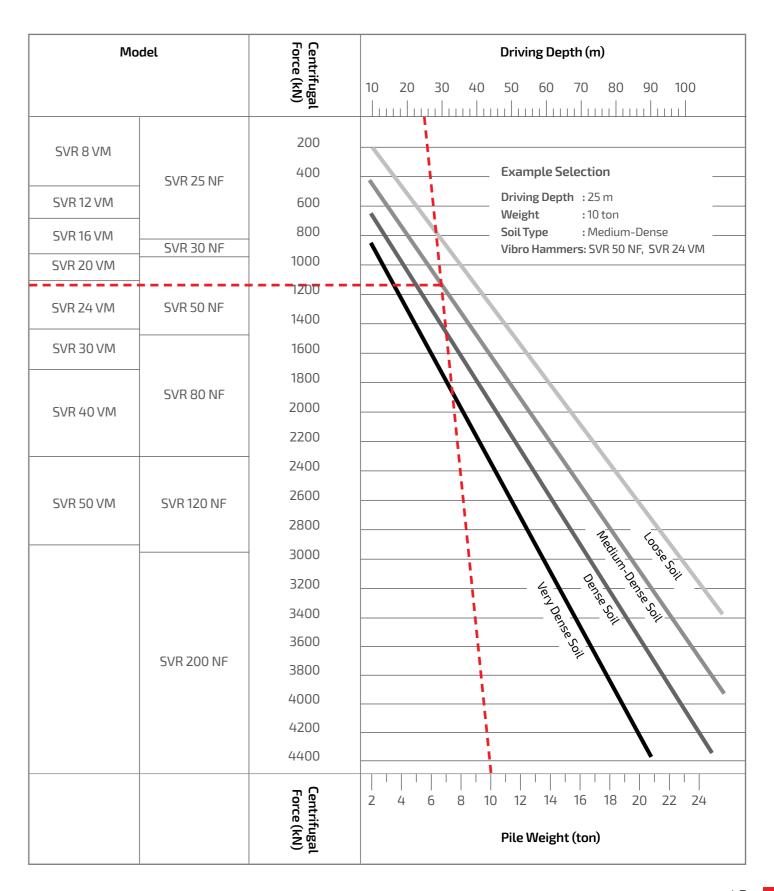
Advantages

- 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.



Selection Chart

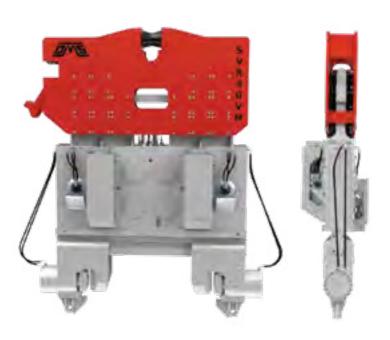
Crane Suspended Vibro Hammers



SVR Series

Crane Suspended Vibro Hammers

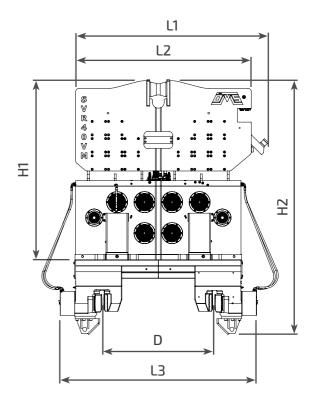
Variable Moment (VM)

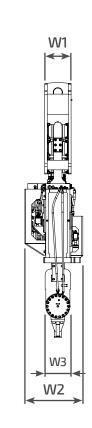


Metric System

| 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) | 237 | 362 | 492 | 500 | 675 | 767 | 934 | 1380 |
| Power (kW) | 138 | 211 | 287 | 292 | 394 | 448 | 548 | 805 |
| Amplitude (mm) | 12 | 13 | 12 | 13 | 15 | 13 | 16 | 16 |
| Pulling Force (kN) Max. | 147 | 235 | 235 | 471 | 471 | 706 | 942 | 1060 |
| Weight and Dimensions | • | ••••• | • | •••••• | | | • | |
| Dyn. Weight W/O Clamp (kg) | 1337 | 1850 | 2733 | 3000 | 3252 | 4650 | 5094 | 6200 |
| Total Weight W/O Clamp (kg) | 1857 | 2570 | 3650 | 4280 | 4523 | 6218 | 7603 | 8200 |
| Length / L1 (mm) | 1280 | 1695 | 1945 | 2080 | 2080 | 2210 | 2797 | 2885 |
| Length / L2 (mm) | 1070 | 1395 | 1750 | 1840 | 1840 | 1990 | 2550 | 2650 |
| Length / L3 (mm) | 895 | 1822 | 2084 | 2002 | 2002 | 1900 | 2849 | 2847 |
| Height / H1 (mm) | 1566 | 1695 | 2002 | 2115 | 2115 | 2460 | 2616 | 1971 |
| Height / H2 (mm) | 2312 | 2407 | 2785 | 3005 | 3005 | 3364 | 3701 | 2861 |
| Width / W1 (mm) | 300 | 301 | 315 | 380 | 388 | 388 | 384 | 384 |
| Width / W2 (mm) | 471 | 485 | 659 | 635 | 655 | 729 | 841 | 950 |
| Width / W3 (mm) | 320 | 200 | 350 | 380 | 460 | 400 | 370 | 292 |
| Throat Width (mm) | 320 | 320 | 314 | 360 | 360 | 390 | 360 | 350 |
| Clamps for Sheet Piles | SCN 60 | SCN 75/100 | SCN 120 | SCN 165 | SCN 165 | SCN 200 | SCN 350 | SCN 350 |
| Clamping Force (kN) | 643 | 814/1005 | 1216 | 1700 | 1700 | 2262 | 3560 | 3560 |
| Weight (kg) | 327 | 502/620 | 851 | 866 | 866 | 1195 | 2553 | 2553 |
| Clamps for Casing | KCN 40x2 | KCN 40x2 | KCN 60x2 | KCN 80x2 | KCN 90x2 | KCN 120x2 | KCN 165x2 | KCN 185x2 |
| Diameter (minmax.) / D (mm) | 320 - 700 | 320 - 970 | 340 - 1300 | 460 - 1260 | 460 - 1260 | 540 - 1500 | 520 - 1580 | 520 - 1700 |
| Clamping Force (kN) | 425 x 2 | 425 x 2 | 643 x 2 | 814 x 2 | 890 x 2 | 1216 x 2 | 1700 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 |
| Recommended Power Pack | PP 218 | PP 320 | PP 428 | PP 536 | PP 536 | PP 768 | PP 1072 | PP 1536 |
| Power (kW) | 160 | 235 | 315 | 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 - 695 | 0 - 1041 | 0 - 1389 | 0 - 1736 | 0 - 2083 | 0 - 2603 | 0 - 3472 | 0 - 4340 |
| Centrifugal Force Max. (tons) | 52 | 79 | 105 | 131 | 154 | 197 | 264 | 329 |
| Frequency (rpm) | 2300 | 2300 | 2300 | 2300 | 2300 | 2300 | 2300 | 2300 |
| Oil Flow (gpm) | 63 | 96 | 130 | 132 | 179 | 203 | 247 | 365 |
| Power (hP) | 185 | 283 | 385 | 392 | 529 | 601 | 735 | 1080 |
| Amplitude (in) | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.5 | 0.6 | 0.6 |
| Pulling Force Max. (tons) | 17 | 27 | 27 | 53 | 53 | 80 | 106 | 120 |
| Weight and Dimensions | | - | | • | | • | • | |
| Dyn. Weight W/O Clamp (lbs) | 2948 | 4079 | 6026 | 6614 | 7170 | 10252 | 11230 | 13669 |
| Total Weight W/O Clamp (lbs) | 4094 | 5666 | 8047 | 9436 | 9972 | 13709 | 16762 | 18078 |
| Length / L1 (in) | 51 | 67 | 77 | 82 | 82 | 87 | 110 | 114 |
| Length / L2 (in) | 42 | 55 | 69 | 72 | 73 | 79 | 100 | 105 |
| Length / L3 (in) | 35 | 72 | 82 | 79 | 79 | 75 | 112 | 112 |
| Height / H1 (in) | 62 | 67 | 79 | 83 | 83 | 97 | 103 | 78 |
| Height / H2 (in) | 91 | 95 | 110 | 118 | 118 | 133 | 146 | 113 |
| Width / W1 (in) | 12 | 12 | 13 | 15 | 15 | 15 | 15 | 15 |
| Width / W2 (in) | 19 | 19 | 26 | 25 | 26 | 29 | 33 | 38 |
| Width / W3 (in) | 13 | 8 | 14 | 15 | 18 | 16 | 15 | 12 |
| Throat Width (in) | 12.6 | 12.6 | 12.4 | 14.2 | 14.2 | 15.4 | 14.2 | 13.8 |
| Clamps for Sheet Piles | SCN 60 | SCN 75/100 | SCN 120 | SCN 165 | SCN 165 | SCN 200 | SCN 350 | SCN 350 |
| Clamping Force (tons) | 73 | 92/113 | 137 | 191 | 191 | 255 | 400 | 400 |
| Weight (lbs) | 721 | 1106/1367 | 1876 | 1909 | 1909 | 2635 | 5629 | 5629 |
| Clamps for Casing | KCN 40x2 | KCN 40x2 | KCN 60x2 | KCN 80x2 | KCN 90x2 | KCN 120×2 | KCN 165x2 | KCN 185x2 |
| Diameter (minmax.)/D (in) | 13 - 28 | 13 - 38 | 14 - 51 | 18 - 50 | 18 - 50 | 22 - 59 | 21 - 63 | 21 - 67 |
| Clamping Force (tons) | 96 | 96 | 145 | 183 | 200 | 273 | 382 | 418 |
| Weight (lbs) | 815 | 815 | 1354 | 2372 | 2372 | 4180 | 5133 | 5133 |
| Recommended Power Pack | PP 218 | PP 320 | PP 428 | PP 536 | PP 536 | PP 768 | PP 1072 | PP 1536 |
| Power (hP) | 218 | 320 | 428 | 536 | 536 | 768 | 536 x 2 | 768 x 2 |



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.

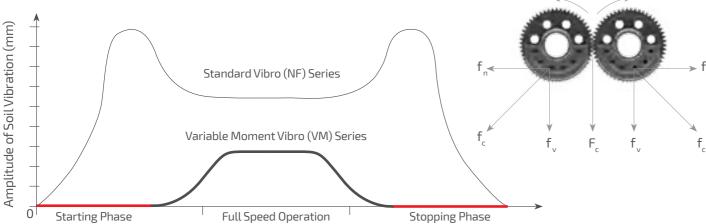


Eccentric masses shifting to unbalance state from balance state

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.

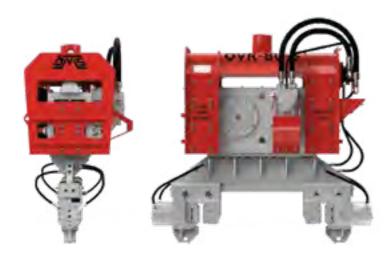
The variable moment technology (phase shifter mechanism) of SVR Variable Moment Vibratory Hammers is to adjust the position of eccentric masses with respect to the resonance free starting and stopping of vibration case.



OVR Series

Excavator Mounted Vibro Hammers

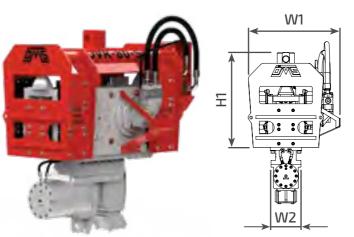
Standard (S)

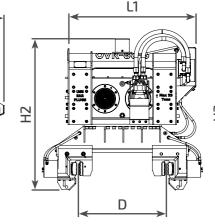


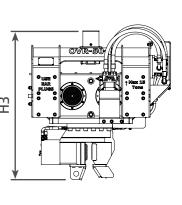
am



| 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 | 147 | 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 | 1466 | 1487 |
| Height / H1 (mm) | 891 | 762 | 835 | 779 | 893 | 970 | 1027 |
| Height / H2 (mm) | - | - | - | 1352 | 1480 | 1547 | 1842 |
| Height / H3 (mm) | 1295 | 1250 | 1320 | 1344 | 1402 | 1510 | 1634 |
| Width / W1 (mm) | 482 | 735 | 778 | 778 | 804 | 890 | 842 |
| Clamps for Sheet Piles | SCN 20 | SCN 30 | SCN 60 | SCN 60 | SCN 60/75 | SCN 75/100 | SCN 100 |
| Width / W2 (mm) | 160 | 200 | 262 | 262 | 262 / 305 | 305 / 320 | 320 |
| Clamping Force (kN) | 203 | 304 | 643 | 643 | 643 / 814 | 814 / 1005 | 1005 |
| Weight (kg) | 88 | 192 | 327 | 327 | 327 / 502 | 502 / 620 | 620 |
| Clamps for Casing | - | - | - | KCN 40x2 | KCN 40x2 | KCN 40x2 | KCN 60 x 2 |
| Diameter (minmax.) / D (mm) | - | _ | - | 320 - 666 | 320 - 666 | 320 - 970 | 340 - 1000 |
| 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 Wor | rking Weight (| (ton) | ······································ | | | | |
| | 6 - 12 | 18 - 22 | 24 - 26 | 25 - 30 | 30 - 36 | 36 - 40 | 40 - 50 |







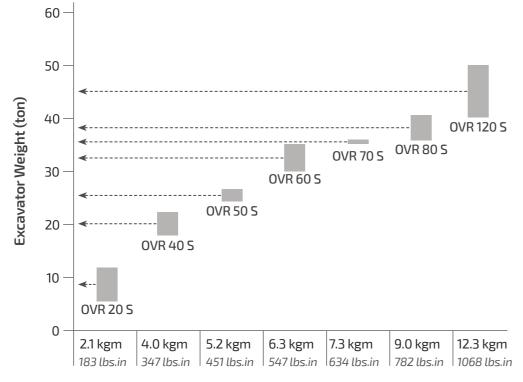
Imperial System

| Technical Specifications | 20 S | 40 S | 50 S | 60 S | 70 S | 80 S | 120 S |
|-------------------------------|---|---------|---------|----------|------------|-------------|------------|
| Eccentric Moment (lbs.in) | 183 | 347 | 451 | 547 | 634 | 782 | 1068 |
| Centrifugal Force (tons) | 16 | 31 | 40 | 49 | 57 | 70 | 94 |
| Centrifugal Force (tons) Max. | 20 | 38 | 49 | 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) | 17 | 27 | 40 | 53 | 62 | 73 | 83 |
| Oil Flow (gpm) Max. | 19 | 29 | 44 | 58 | 68 | 80 | 91 |
| Power (hP) | 45 | 71 | 108 | 144 | 166 | 198 | 224 |
| Power (hP) Max. | 49 | 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 | 17 | 17 | 17 | 17 | 27 | 27 |
| Weight and Dimensions | ••••••••••••••••••••••••••••••••••••••• | | ••••• | •••• | | •••• | |
| Dyn. Weight W/O Clamp (lbs) | 596 | 1178 | 1651 | 1700 | 2048 | 2767 | 2848 |
| Total Weight W/O Clamp (lbs) | 847 | 1732 | 2380 | 2417 | 2762 | 3836 | 3964 |
| Length / L1 (in) | 30 | 47 | 51 | 51 | 53 | 58 | 59 |
| Height / H1 (in) | 35 | 30 | 33 | 31 | 35 | 38 | 41 |
| Height / H2 (in) | _ | _ | - | 53 | 58 | 61 | 73 |
| Height / H3 (in) | 51 | 50 | 52 | 53 | 55 | 60 | 64 |
| Width / W1 (in) | 19 | 29 | 31 | 31 | 32 | 35 | 33 |
| Clamps for Sheet Piles | SCN 20 | SCN 30 | SCN 60 | SCN 60 | SCN 60/75 | SCN 75/100 | SCN 100 |
| Width / W2 (in) | 6 | 8 | 10 | 10 | 10 / 12 | 12 / 13 | 13 |
| Clamping Force (tons) | 23 | 34 | 73 | 73 | 73 / 92 | 92 / 113 | 113 |
| Weight (lbs) | 194 | 423 | 720 | 720 | 720 / 1106 | 1106 / 1367 | 1367 |
| Clamps for Casing | _ | _ | _ | KCN 40x2 | KCN 40x2 | KCN 40×2 | KCN 60 x 2 |
| Diameter (minmax.) / D (in) | - | - | - | 13 - 26 | 13 - 26 | 13 - 38 | 14 - 40 |
| Clamping Force (tons) | - | - | - | 96 | 96 | 96 | 145 |
| Weight (lbs) | - | - | - | 815 | 815 | 815 | 1354 |
| Recommended Excavator World | king Weight (1 | ton) | | | | | |
| | 6 - 12 | 18 - 22 | 24 - 26 | 25 - 30 | 30 - 36 | 36 - 40 | 40 - 50 |



Selection Chart

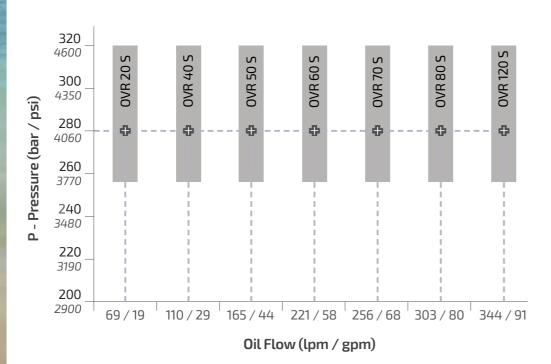
Excavator Mounted Vibro Hammers



Eccentric Moment

Oil Pressure & Oil Flow (Optimum)

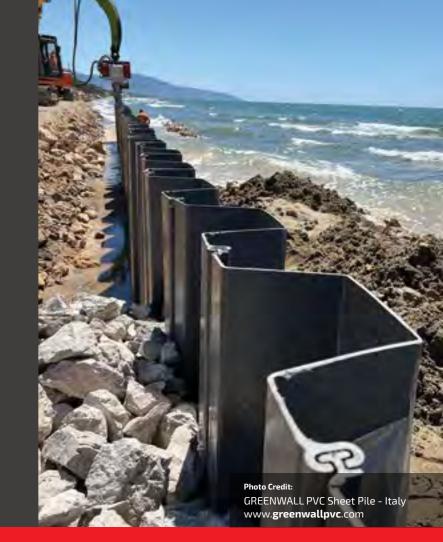
Excavator Mounted Vibro Hammers



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.

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. 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.



OMS is All Over The World!



OVR Series

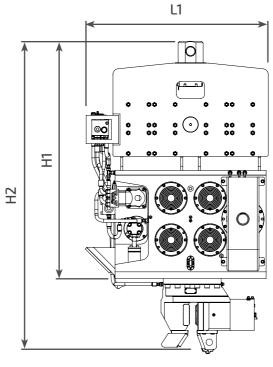
Excavator Mounted Vibro Hammers

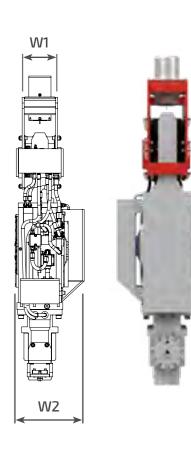
Variable Moment (VM)

Advantages

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







Metric System

| Technical Specifications | OVR 80 VM | OVR 120 VM |
|-----------------------------|-----------------|------------|
| Eccentric Moment (kgm) Max. | 0 - 8 | 0 - 12 |
| Centrifugal Force (kN) Max. | 464 | 698 |
| Frequency (rpm) | 2300 | 2300 |
| Oil Flow (lpm) | 237 | 362 |
| Power (kW) | 127 | 193 |
| Amplitude (mm) | 12 | 13 |
| Pulling Force (kN) Max. | 147 | 235 |
| Weight and Dimensions | | |
| Dyn. Weight W/O Clamp (kg) | 1337 | 1850 |
| Total Weight W/O Clamp (kg) | 1650 | 2300 |
| Length / L1 (mm) | 1280 | 1477 |
| Height / H1 (mm) | 1680 | 1774 |
| Height / H2 (mm) | 2075 | 2358 |
| Width / W1 (mm) | 255 | 255 |
| Width / W2 (mm) | 471 | 471 |
| Clamps for Sheet Piles | SCN 60 | SCN 75/100 |
| Clamping Force (kN) | 643 | 814 / 1005 |
| Weight (kg) | 327 | 502 / 620 |
| Clamps for Casing | KCN 40×2 | KCN 40x2 |
| Diameter (minmax.) / D (mm) | 320 - 700 | 320 - 970 |
| Clamping Force (kN) | 425 x 2 | 425 x 2 |
| Weight (kg) | 185 x 2 | 185 x 2 |
| Recommended Excavator Worki | ng Weight (ton) | |
| | 20 - 28 | 25 - 35 |



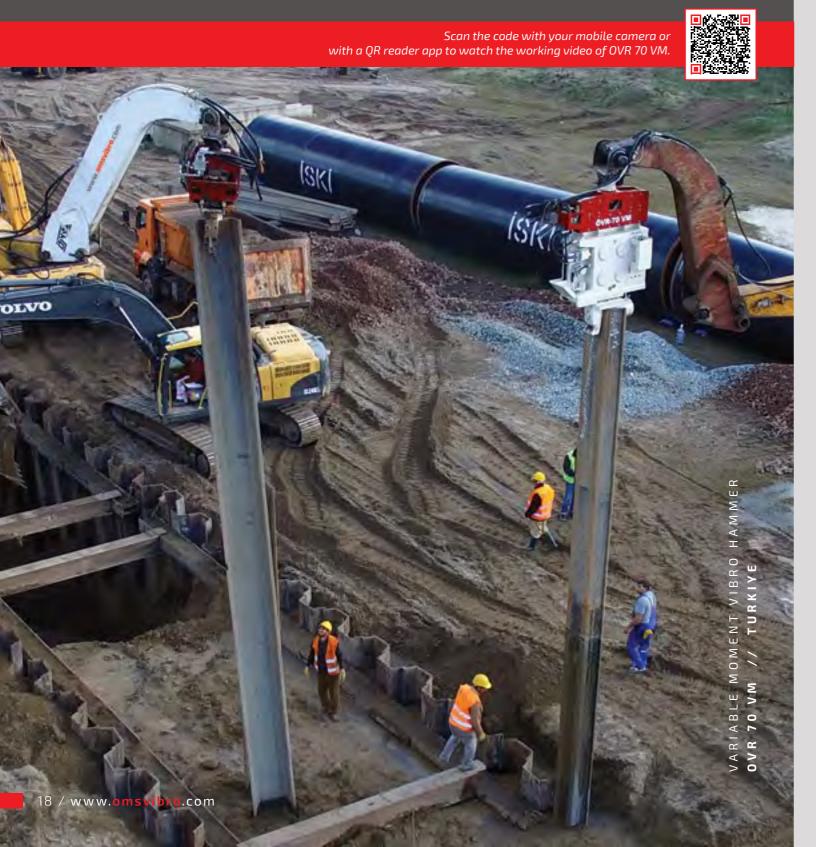
| Technical Specifications | OVR 80 VM | OVR120 VM |
|--------------------------------|-----------------|-------------|
| Eccentric Moment (in.lbs) Max. | 0 - 695 | 0 - 1041 |
| Centrifugal Force (tons) Max. | 52 | 79 |
| Frequency (rpm) | 2300 | 2300 |
| Oil Flow (gpm) | 63 | 96 |
| Power (hP) | 170 | 259 |
| Amplitude (in) | 0.5 | 0.6 |
| Pulling Force (tons) Max. | 17 | 27 |
| Weight and Dimensions | | |
| Dyn. Weight W/O Clamp (lbs) | 2948 | 4078 |
| Total Weight W/O Clamp (lbs) | 3637 | 5070 |
| Length / L1 (in) | 51 | 59 |
| Height / H1 (in) | 66 | 70 |
| Height / H2 (in) | 82 | 93 |
| Width / W1 (in) | 10 | 10 |
| Width / W2 (in) | 19 | 19 |
| Clamps for Sheet Piles | SCN 60 | SCN 75/100 |
| Clamping Force (tons) | 73 | 92 / 113 |
| Weight (lbs) | 721 | 1107 / 1366 |
| Clamps for Casing | KCN 40x2 | KCN 40x2 |
| Diameter (minmax.) / D (in) | 13 - 28 | 13 - 38 |
| Clamping Force (tons) | 96 | 96 |
| Weight (lbs) | 815 | 815 |
| Recommended Excavator Wo | orking Weight (| ton) |
| | 20 - 28 | 25 - 35 |





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.



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.





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.



SG Series

Excavator Mounted Side Grip Vibro Hammer

| OMS Side Grip Vibro Hammer Features | 4 |
|--|----|
| OMS Side Grip Vibro Hammer System | |
| OMS Side Grip Pile Arms | 10 |
| OMS Side Grip Bottom Clamp | 1 |
| Selection Guide For Side Grip Vibro Hammer | 12 |
| Usage of Side Grip Pile Driver | 13 |
| Technical Specifications | 14 |

OMS EXCAVATOR MOUNTED SIDE GRIP VIBRO HAMMER





OMS SIDE GRIP VIBRO HAMMER FEATURES

01. Excavator Mounted

- Suitable for all crawler types and wheeled excavators,
- Controlled by a special electronic control system,
- Easy to operate,
- Works with excavator's standard hydraulic system.

02. Advanced Mobility

With 360° rotating system and 30° tilt mechanism, OMS vibro hammer can be worked in small areas. Side grip sheet pile drivers are capable of handling, pitching, and driving/extracting.

03. Wide Product Range

Depending on your excavator power or project requirements, OMS has different sizes and capacity OVR-SG machines. These machines have various types of arms for sheet piling, pipe piling and timber piling.

04. Quick Setup Time

OMS Side Grip Vibro Hammer can be fitted easily and quickly without any modifications required to the excavator and is controlled directly by the excavator operator. **OMS Side Grip Vibro Hammer** equipped with both gripping arms/clamp and the bottom clamp. One of the clamps is located in front of vibration case, while the other one is below the vibration case. Hydraulic clamps have gripping jaws. The hydraulic cylinder operates the gripping arms with force up to 500 kN. Bottom clamp is operated with up to 440 kN, depending on clamp relief pressure. The clamps can be opened and closed directly from excavator "Joy Stick" or from the electrical remote control monitor. Clamping and un-clamping occurs in a few seconds.



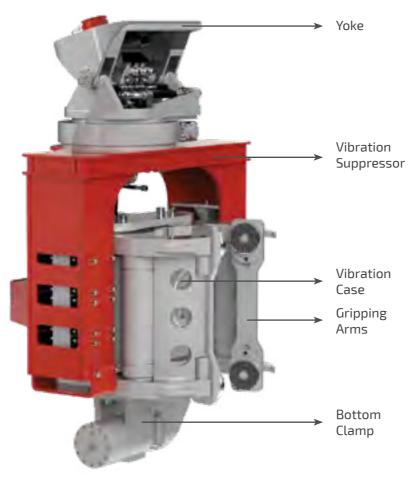


OMS Side Grip Vibro Hammer can handle, pitch and drive the sheet piles. It is capable to accomplish the whole pile driving process without need for manual handling of the piles or assisting machinery.

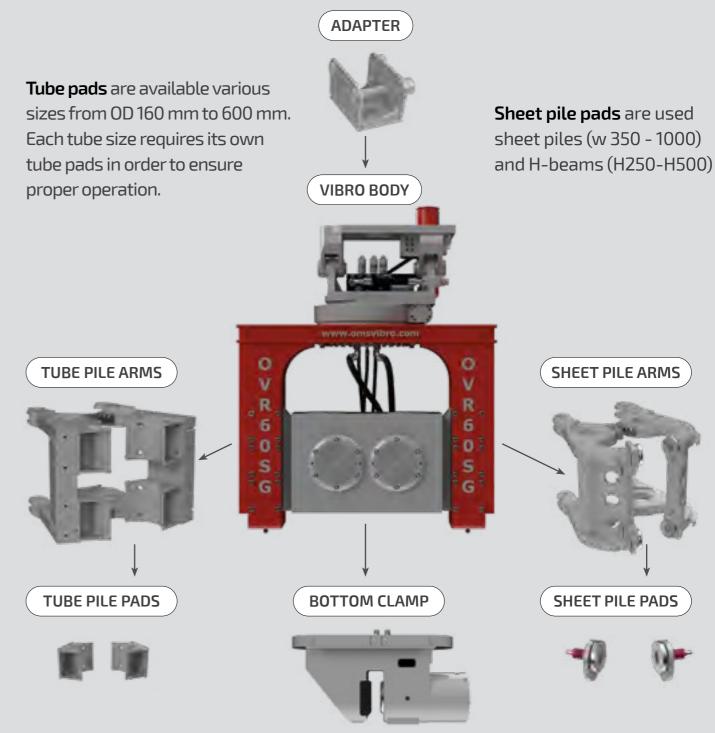
High Performance and Pile Driving / Extracting Power!..

The equipment consists of five major components.

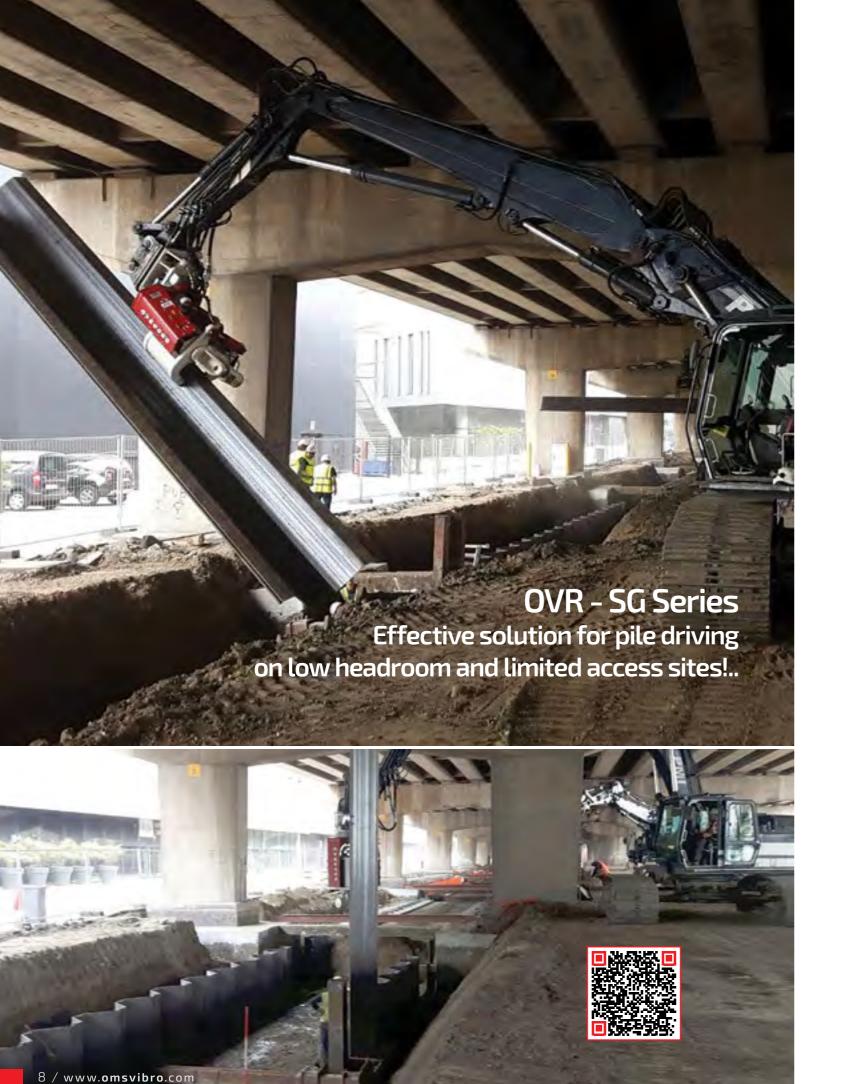
- Yoke
- Vibration Suppressor
- Vibration Case
- Gripping Arms
- Bottom Clamp



OMS SIDE GRIP VIBRO HAMMER SYSTEM



OMS Side Grip comes with pile arms and clamp system. Depending on your needs, arms can be changed. OMS Side Grip Pile Driver has two types of clamp: These are "tube pile arms" and "sheet pile arms". With the help of these arms, many types of sheet piles, H beams, I beams and tubular piles can be used.





OMS SIDE GRIP PILE ARMS

OMS SIDE GRIP BOTTOM CLAMP

Main feature of side grip vibro hammer is "side grip pile arms". Side Grip arms are designed for handling, pitching, driving and extracting of various types of piles. Depending on your needs, arms can be changed. With the help of these arms many types of sheet piles, H beams, I beams and tubular piles can be used.



Sheet Pile Arms





The bottom clamp system is designed for driving and extracting beams and sheet piles. With the help of bottom clamp system OVR SG machines can be worked as excavator mounted standard vibro hammer system.

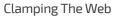


(H - Beams)

Handling/pithing/driving/extracting

(Sheet Piles)







Clamp Hooks



Handling/pithing/ driving/extracting (H - Beams)



Handling/pithing/ driving/extracting (Sheet Piles)



Handling/pithing/ driving/extracting (Tube Piles)











SELECTION GUIDE FOR SIDE GRIP VIBRO HAMMER

To finalize your selection and further information please contact **OMS** technical support!

Selecting the right vibro hammer depends on some main criteria. These criteria are, excavator power, the type of pile to be driven, the driving depth and most importantly the type of soil (SPT-N Value).



EXCAVATOR WORKING WEIGHT

The technical specifications of the excavator must meet the minimum requirements for the operation of the vibro hammer (hydraulic power "oil flow@pressure"). Excavators lifting capacity and hydraulic system designs are also important. This information must be gathered from excavator manufacturer.



SOIL TYPE

Soil conditions must be known. Vibro hammer driving depth can be changed depending on loose, medium and very dense soil type.



TYPE OF PILE AND DRIVING DEPTH

Type of pile (H-beam, I beam, sheet pile, timber pile and tube pile etc.) is important to choose right arms for vibro hammer.

Depending on pile and driving depth, vibro hammer model can be changed.

OVR 40 SG Selection Chart OVR 50 SG OVR 60 SG OVR 70 SG 24-26 **Excavator Class** 18-22 ton 25-30 30-36 Sheet Piles (mm) 350-800 400-1000 H200-H500 H-Beams H250-H500 Timber Piles (mm) Ø120-400 Ø160-600 Tube Piles (mm) Ø120-400 Ø160-600

USAGE OF SIDE GRIP PILE DRIVER

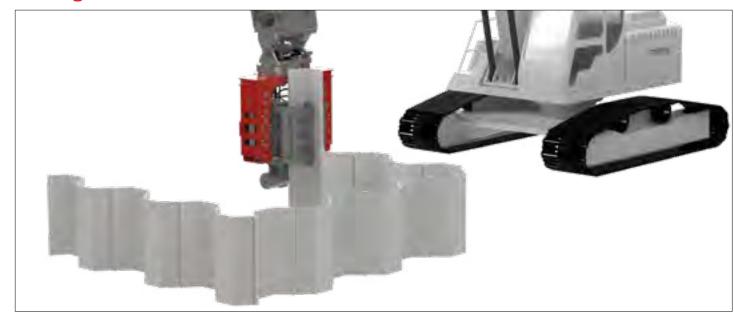
Handling



Carrying Sheet Piles



Pitching



Driving / Extracting (Side Clamp)



Driving / Extracting (Bottom Clamp)



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OMS Pile Driving Equipment GmbH. / 13

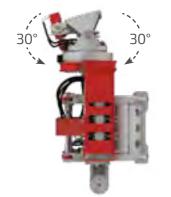
OVR Series®

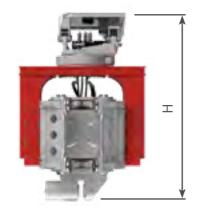
Excavator Mounted Vibro Hammers

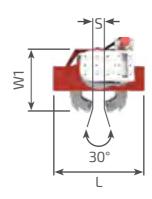
Side Grip (SG)

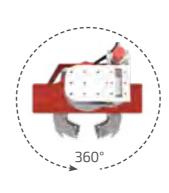
SHEET PILE DRIVERS (SG - SP)











| Technical Specifications | | 40 SG-SP 40 SG - TP | | i-SP i-TP | 60 SG-SP 60 SG - TP | | 70 SG-SP 70 SG - TP | |
|------------------------------------|--------|------------------------|--------|--------------|------------------------|------|------------------------|------|
| Unit | Metric | US | Metric | US | Metric | US | Metric | US |
| Eccentric Moment (kgm) (in.lbs) | 4 | 347 | 5.2 | 451 | 6.3 | 547 | 7.3 | 634 |
| Centrifugal Force (kN) (tons) | 276 | 31 | 354 | 40 | 434 | 49 | 502 | 56 |
| Centrifugal Force Max. (kN) (tons) | 334 | 37 | 428 | 48 | 525 | 59 | 607 | 68 |
| Frequency (rpm) | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Frequency Max. (rpm) | 2750 | 2750 | 2750 | 2750 | 2750 | 2750 | 2750 | 2750 |
| Oil Flow (l/min) (gpm) | 100 | 26 | 150 | 40 | 201 | 53 | 233 | 61 |
| Oil Flow Max. (l/min) (gpm) | 110 | 29 | 165 | 44 | 221 | 58 | 256 | 68 |
| Power (kW) (hP) | 53 | 71 | 80 | 107 | 107 | 143 | 124 | 166 |
| Power Max. (kW) (hP) | 59 | 79 | 88 | 118 | 118 | 158 | 137 | 183 |
| Amplitude (mm) (in) | 5 | 0.2 | 6 | 0.2 | 6 | 0.2 | 7 | 0.3 |
| Pulling Force (kN) (tons) | 117 | 13 | 117 | 13 | 177 | 20 | 177 | 20 |
| Side Gripping Force (kN) (tons) | 439 | 49 | 439 | 49 | 532 | 60 | 532 | 60 |
| Bottom Clamping Force (kN) (tons) | 292 | 33 | 292 | 33 | 442 | 50 | 442 | 50 |

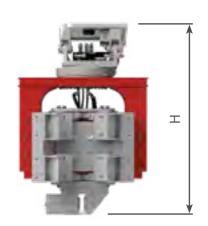
OVR Series®

Excavator Mounted Vibro Hammers

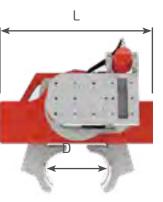
Side Grip (SG)

TUBE PILE DRIVERS (SG - TP)









| Ø 100 - Ø 600 | |
|---------------|--|
|---------------|--|

| Weight and Dimensions | 40 SG-SP | | 50 SG-SP | | 60 SG-SP | | 70 SG-SP | |
|---------------------------|----------|------|----------|------|----------|------|----------|------|
| Unit | Metric | US | Metric | US | Metric | US | Metric | US |
| Dynamic Weight (kg) (lbs) | 1573 | 3468 | 1643 | 3622 | 2055 | 4530 | 2085 | 4597 |
| Total Weight (kg) (lbs) | 2530 | 5578 | 2660 | 5864 | 3110 | 6856 | 3140 | 6923 |
| Length / L (mm) (in) | 1420 | 56 | 1420 | 56 | 1450 | 57 | 1450 | 57 |
| Height / H (mm) (in) | 2124 | 84 | 2124 | 84 | 2257 | 89 | 2257 | 89 |
| Width / W1 (mm) (in) | 1190 | 47 | 1190 | 47 | 1215 | 48 | 1215 | 48 |
| Arm Stroke / S (mm) (in) | 225 | 9 | 225 | 9 | 225 | 9 | 225 | 9 |











POWERFUL GROUND IMPROVEMENT 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.





OVF Series

Stone Column Equipment

| Vibro Compaction (Top Feed)4 |
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| Tandem Free Hanging4 |
| Single Free Hanging4 |
| Vibro Replacement (Bottom Feed)7 |
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WD Series

Prefabricated Vertical Drain (PVD) Installation Machine

| Wick Drain Installation Machine14 |
|--|
| Advantages of Wick Drain Equipment 16 |
| Operation Procedure of Installation 17 |
| WD 28-43 Technical Specifications18 |

We support our customers by recommending the best ground improvement equipment solutions. Vibro compaction and vibro replacement (stone columns), as well as vertical drain (wick drain) equipment, of OMS have proved themselves in the global market from Europe to the Middle East, South East Asia and America continent.





VIBRO COMPACTION (Top Feed System)

The OMS vibro compaction method is mostly used in granular soils that are at seismic risk and thus, the method itself is suitable for land reclamation projects to mitigate the risk of liquefaction. This technique is for densifying sand-like soils on site by means of an OMS Vibroflotation probe. With the simultaneous vibration and saturation impact, loose sand particles are repacked into a more compact state and lateral confining pressure within the sand mass is increased.

The vibro compaction technique is most suitable for medium to coarse-grained sand with silt content. Cohesive soil consisting of silt and clay material does not respond to vibratory compaction. The following illustration explains the operation:

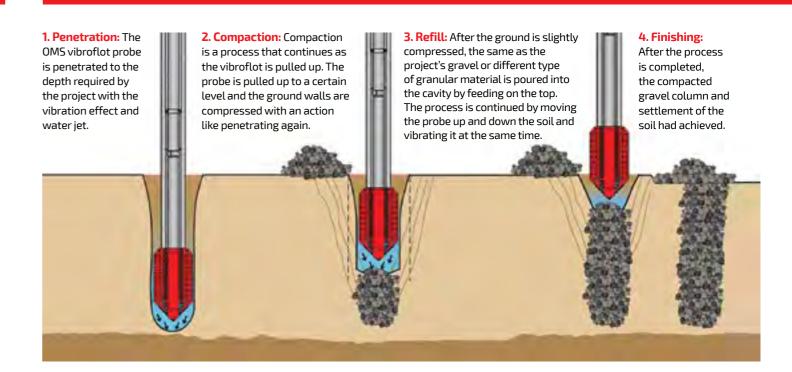
The typical OMS configurations of the vibro compaction technique:

- 1. Tandem Free Hanging
- 2. Single Free Hanging

The tandem vibro compaction configuration is consisting of two vibroflotation probes suspending from the same crane. It is mostly preferred in land reclamation, railway, highway projects etc. The quality of the compaction/stone column can be monitored with a data logger supplied by OMS. Hence, the depth, compaction rate, time related compaction and withdrawals as well as gravel volume can be measured and monitored.

The single free hanging vibroflotation probe comprises of the same interchangeable parts as the tandem set. The depth of compaction or stone column can be deeper, therefore projects that are medium to small scale are suitable for to be executed with a single free hanging system. Compared to the tandem system, the crane capacity of the vibroflotation probe is slightly smaller. On the other hand, just like a tandem system, the quality of the compaction/stone column can be monitored with a "data logger" so that, depth, compaction rate, time related compaction and withdrawals as well as gravel volume can be measured and monitored.

Operation Procedure of Vibro Compaction:



TANDEM FREE HANGING

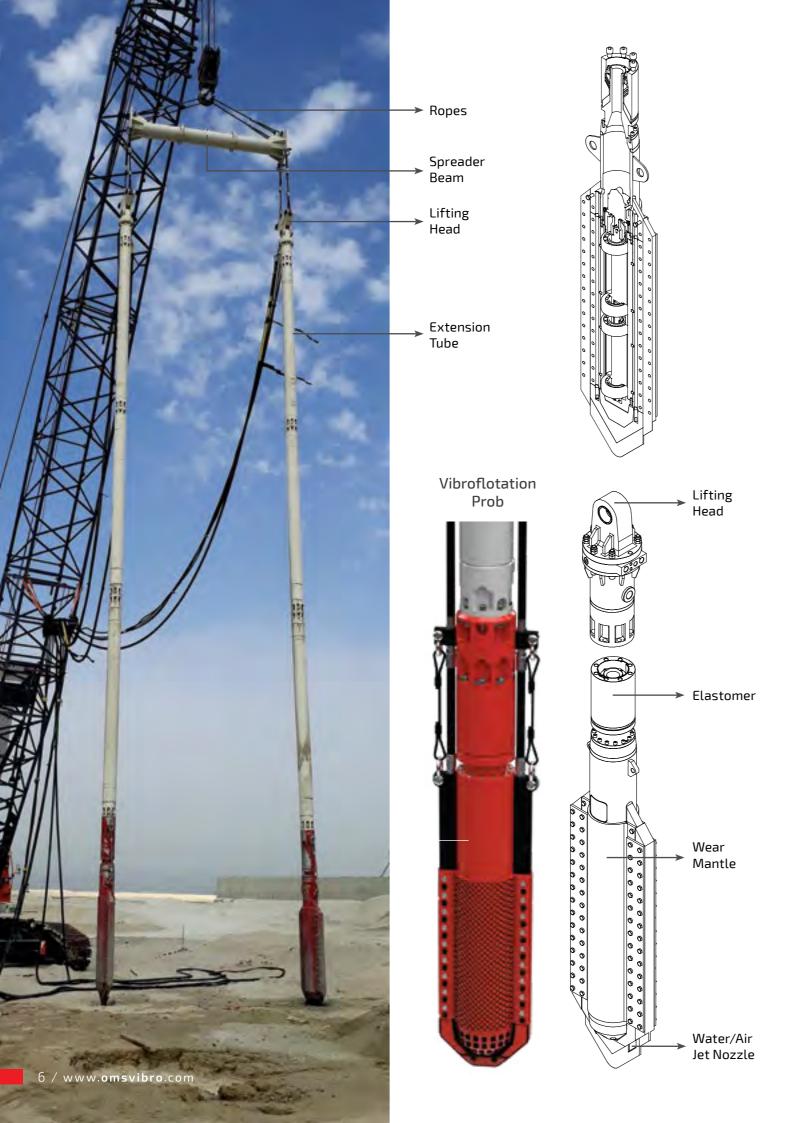
The configuration of tandem vibro compaction comprises of two vibroflotation probes suspending from the same crane.



SINGLE FREE HANGING

The configuration of single free hanging vibroflotation probe consists of the same interchangeable parts as the tandem set.



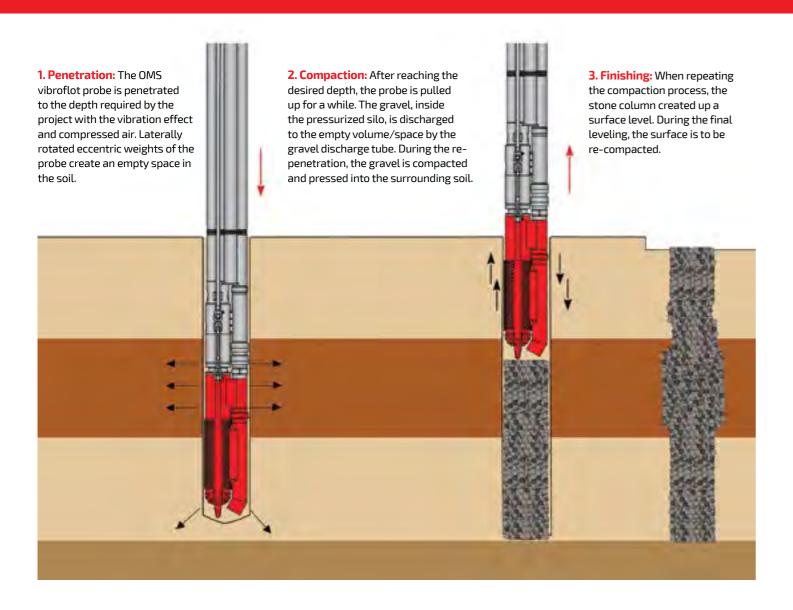


VIBRO REPLACEMENT (Bottom Feed System)



Operation Procedure of Vibro Replacement:

Typical Configuration of Vibro Replacement:



The typical OMS configurations of the vibro replacement technique:

- 1. Drill Rig / Leader Mounted Bottom Feed Vibroflotation
- 2. Bottom Feed Free Hanging Vibroflotation
- 3. Excavator Mounted Bottom Feed Vibroflotation

DRILL RIG / LEADER MOUNTED

Probe is easy to mount on an existing drill rig or a leader.

BOTTOM FEED FREE HANGING

Probe with a gravel hopper is suspended by a crane.

EXCAVATOR MOUNTED

Excavator selection is crucial in this configuration.







1. Drill Rig / Leader Mounted

The OMS vibroflotation probe (bottom feed system) with gravel hopper can be easily mounted on an existing drill rig or a leader with a supervisor from OMS technical team. This particular configuration is advantageous since the drill rig or leader is equipped with a pull-down system, thus, allowing additional pull-down pressure to be exerted during penetration and compaction.





2. Bottom Feed Free Hanging

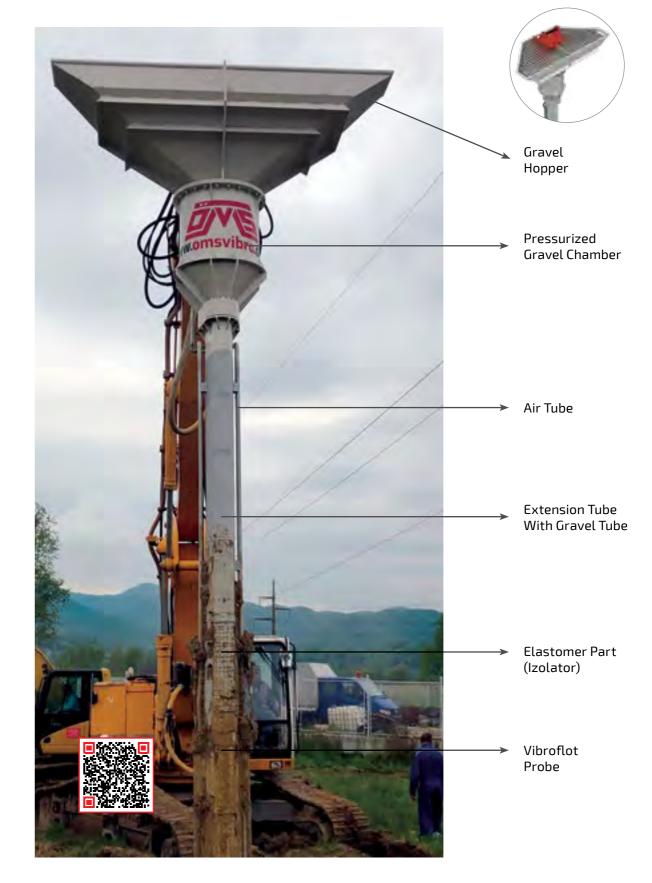
The OMS vibroflotation probe (bottom feed system) with a gravel hopper suspended by a crane. For the configuration, the crane capacity should be suitable to carry on suspended weights.





3. Excavator Mounted Bottom Feed Vibroflot

The OMS bottom feed system is easier to mount on a customer's excavator. In any case, the help of the OMS supervision team is needed. Also, it is simpler to operate and cost-friendly. However, stone columns come with limited depth because excavators have certain limits. Excavator selection is crucial in this configuration. Vibroflotation probe is operated with the excavator's hydraulic system. Depending on the excavator's limitation, the depth of the stone column becomes limited.



Monitoring and Reporting

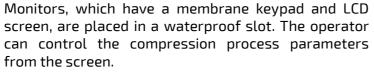
Technical Specifications



Control Panel of Data Loggers

OMS vibro compaction and vibro replacement outputs can be monitored with a OMS "data logger" system. During the vibro compaction and vibro replacement operation numbers of different sites and parameters are automatically recorded. The following parameters can be measured, saved and printed as proof of production and quantities:

- Date
- Site Name
- Depth of Penetration
- Compaction Point Reference Number
- Compaction Rate (Pressure)
- Volume of Gravel





Fast



Manage



Touch

Screen

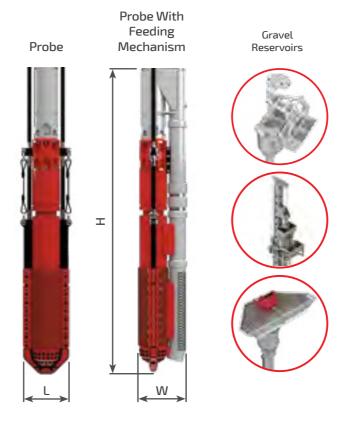














Metric System

| Technical Specifications | 300-2 | 300-4 | 400-10 |
|---------------------------------|---------------------------------------|--------|--------|
| Eccentric Moment (kgm) (in.lbs) | 2 | 4 | 10. |
| Frequency (rpm) | 3000 | 3000 | 2100 |
| Centrifugal Force (kN) (tons) | 200 | 396 | 49: |
| Oil Flow (lpm) (gpm) | 180 | 330 | 26 |
| Power (kW) | 105 | 193 | 15: |
| Weight and Dimensions | | | |
| Weight (kg) (lbs) | 2100 | 2812 | 3350 |
| Height (H) (mm) (in) | 3745 | 4436 | 446 |
| Width (W) (mm) (in) | 590 | 590 | 64 |
| Length (L) (mm) (in) | 620 | 620 | 679 |
| Power Pack | PP 218 | PP 320 | PP 320 |
| Output (kW) | 160 | 235 | 23 |
| • | · · · · · · · · · · · · · · · · · · · | ····· | |

Imperial System

| Technical Specifications | | | |
|---------------------------------|------|------|------|
| Eccentric Moment (kgm) (in.lbs) | 174 | 347 | 885 |
| Frequency (rpm) | 3000 | 3000 | 2100 |
| Centrifugal Force (kN) (tons) | 22.5 | 44.5 | 55.4 |
| Oil Flow (lpm) (gpm) | 48 | 87 | 69 |
| Power (hP) | 141 | 259 | 205 |

| Tower (III) | | 233 | 203 |
|-----------------------|--------|--------|--------|
| Weight and Dimensions | ••••• | • | |
| Weight (kg) (lbs) | 4630 | 6199 | 7397 |
| Height (H) (mm) (in) | 147 | 175 | 176 |
| Width (W) (mm) (in) | 23 | 23 | 25 |
| Length (L) (mm) (in) | 24 | 24 | 27 |
| Power Pack | PP 218 | PP 320 | PP 320 |
| Output (hP) | 218 | 320 | 320 |

| Power Pack PP - 218 | | PP - 320 | | |
|------------------------------------|--------|----------|--------|-------|
| Unit | Metric | US | Metric | US |
| Oil Flow Max . (lpm) (gpm) | 232 | 61 | 460 | 121.4 |
| Pressure Max. (bar) (psi) | 350 | 5000 | 350 | 5000 |
| Oil Capacity (liter) (gal) | 450 | 118.8 | 450 | 118.8 |
| Diesel Tank Capacity (liter) (gal) | 450 | 118.8 | 650 | 171.6 |
| Width (mm) (in) | 1610 | 64 | 1650 | 65 |
| Length (mm) (in) | 3720 | 147 | 4200 | 165 |
| Height (mm) (in) | 1740 | 69 | 1840 | 72 |



^{*} Power packs are named according to horse power of its engine. Depending on availability of engine, power pack names can be changed.



Advantages of Wick Drain Equipment: Stronger, Deeper and Faster!

Operation Procedure of Installation Wick Drain

The driving and extracting force of the Wick Drain machine is 276 kN, and the combined force (wick drain + vibro hammer) is 711 kN. Related to the enormous static and dynamic force, the machine is **stronger** and drives **deeper**. Depending on the soil condition, the machine is **faster** due to the operation of the mandrel and its speed up to 100 m/min.



Wick drain can be applied in all areas requiring ground consolidation, including the following areas;

- Highway walls, embankments, impoundment,
- Bridge roads, routes and crossings,
- Dams
- Railroads,
- Airports and harbors, ports,
- Storage tanks,
- Mining waste ponds.

With the OMS Wick Drain Installation Machine, the most efficient results are obtained at a low cost.



- Wick drains in rolls are installed in the drain drum located on the machine.
- Sand, gravel, or suitable materials are also called drain blankets shortly, are laid on the ground to be placed in the wick drain.
- The system is rigged to a vertical position with the help of an excavator. The product is ready for operation.
- The specially designed button type mandrel is driven to the desired depth by the OMS Wick Drain Installation Machine. After installing the mandrel, PVD material leaves into the ground.
- This operation is repeated at each predetermined drainage. In different areas of application, the depth at which the operation should be performed may vary.
- After the installation of all the drains is completed, the ground should be loaded with earth material required by the project. The groundwater rises to the surface through the drains.



WD 28 - 43 Technical Specifications

| Technical Data | W | WD28 - 43 | | |
|-----------------------------------|--------|-----------|--|--|
| Unit | Metric | US | | |
| Static (crowd) Force (kN) (tons) | 276 | 31 | | |
| Dynamic Force (kN) (tons) | 435 | 49 | | |
| Combined Force (kN) (tons) | 711 | 80 | | |
| Operating Frequency (rpm) | 2500 | 2500 | | |
| Pressure Max. (bar) (psi) | 350 | 5076 | | |
| Oil Flow Vibro Max. (l/min) (gpm) | 200 | 53 | | |
| Oil Flow Wick Max. (l/min) (gpm) | 506 | 134 | | |

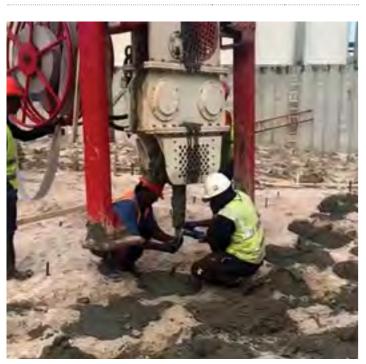
Recommended Excavator Working Weight (ton)

Mandrel Speed Max. (m/min) (ft/min)

45 - 50

328

100



Weights and Dimensions

| Unit | Metric | US |
|-----------------------------|--------|------|
| Suspended Weight (kg) (lbs) | 3077 | 6784 |
| Length / L (mm) (in) | 2040 | 80 |
| Height / H1 (mm) (in) | 3005 | 118 |
| Height / H2 (mm) (in) | 436 | 17 |
| Width / W (mm) (in) | 920 | 36 |

