

## BRANCH LOCATIONS

### APE MEXICO

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Fx: (253) 872-8710

### APE HOLLAND

Ph: +31 (0) 593 54 08 91  
Fx: +31 (0) 593 27 84

### IMCO AUSTRIA

Ph: (43) 1328-9980  
Fx: (43) 1328-9944

### FAE SINGAPORE

Ph: (65) 6863-1633  
Fx: (65) 6863-1455

### APE RUSSIA

Ph: 7-495-603-5345  
Fx: 7-495-603-5345

### APE CHINA

Ph: 011-86-21-5677-1221  
Fx: 011-86-21-3604-0553

### APE CORPORATE

7032 South 196th Street  
Kent, WA 98032  
Ph: (253) 872-0141  
Fx: (253) 872-8710  
(800) 248-8498

### APE WEST COAST

2985 Loomis Road  
Stockton, CA 95205  
Ph: (209) 942-2166  
Fx: (209) 942-2455  
(888) 245-4401

### APE MID-WEST

50 Gerber Industrial Dr  
St. Peters, MO 63379  
Ph: (636) 397-8400  
Fx: (636) 278-4278  
(877) 296-8044

### APE NORTHEAST

401 Hartle Street  
Sayreville, NJ 08872  
Ph: (732) 432-6604  
Fx: (732) 432-6608  
(888) 217-7524

### APE MID-ATLANTIC

500 Newtown Road, #200  
Virginia Beach, VA 23462  
Ph: (757) 518-9740  
Fx: (757) 518-9741  
(866) 399-7500

### APE GULF

3975 FM Hwy 1485  
Conroe, TX 77306  
Ph: (936) 271-1044  
Fx: (936) 271-1046  
(800) 596-2877

### APE SOUTHEAST

1345 Industrial Park Rd.  
Mulberry, FL 33860  
Ph: (863) 324-0378  
Fx: (863) 318-9409  
(800) 570-3844



# APE ROBOVIB

EXCAVATOR MOUNTED  
VIBRATORY DRIVER EXTRACTOR

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## GO DEEP OR GO HOME



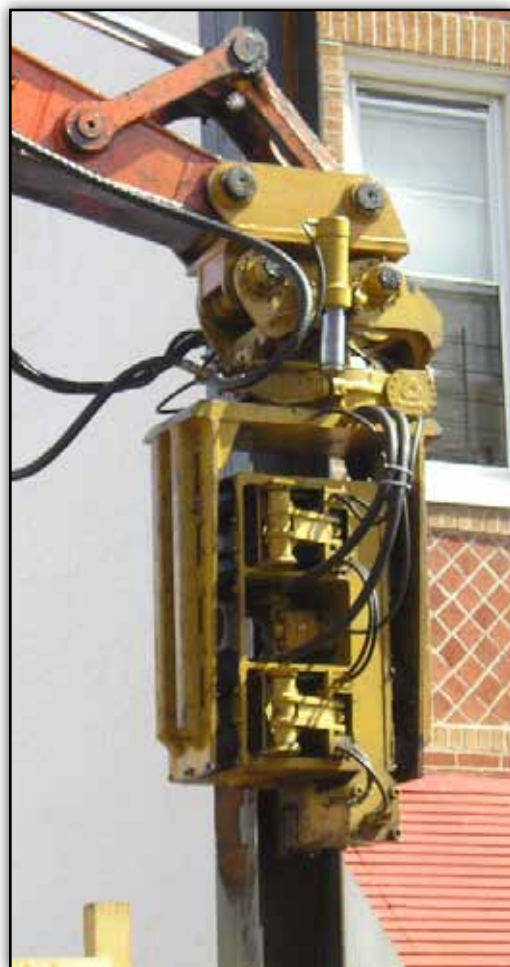
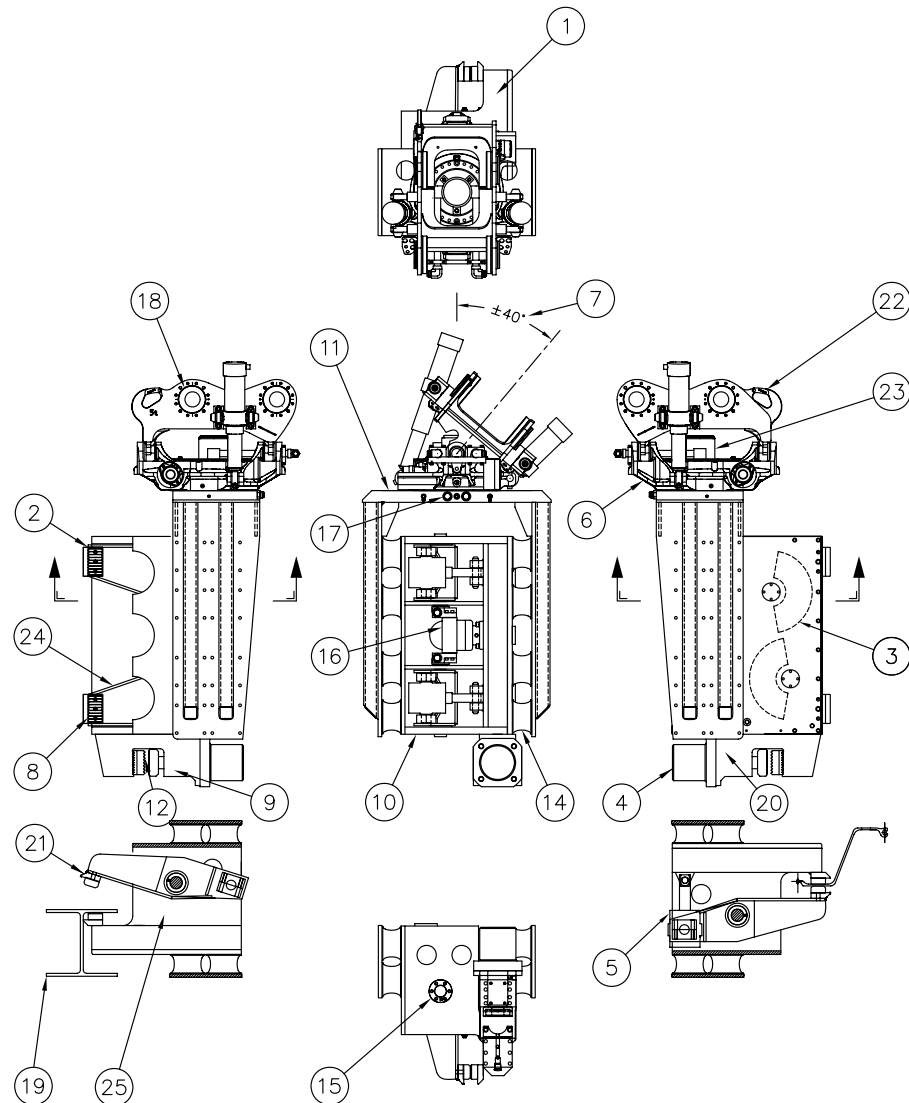
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## ROBOVIB SPECIFICATIONS



ROBOVIB™ SPECIFICATIONS	
Specifications	43 Ton
Weight: kg (lb)	2,086 (4,600)
Eccentric Moment: kgm (in-lb)	5.59 (485)
Frequency in cycles per minute:	2,600
Dynamic Force: m Ton (USt)	39 (43)
Amplitude-free hanging: mm (in)	8.74 (.344)
Max Flow: lpm (gpm)	368 (97)
Maximum Pressure bar (psi)	325 (4,800)
Minimum Excavator m Ton (USt)	20 (23)

1. The RoboVib™ eccentrics are located within the fixed side grip arm. Centerline of dynamic force is much closer to the gripping jaws, reducing off center force input to pile.
2. Vertical distance between side grip jaws is increased to better resist off-center force
3. RoboVib eccentric moment is 22% greater than competitive units, producing significantly larger driving amplitude.
4. Each clamp has an individual actuating cylinder. No poorly guided, trouble prone, dual purpose cylinders as in competitive units
5. Side grip cylinders are directly mounted to arms and are hydraulically synchronized.
6. Proven tilt and rotate mechanism is designed for digging duty, and has sealed lubrication for bearings and worm gear. Cast housing and integral rotation motor maintain perfect alignment for worm gear and massive rotation bearing. Dual tilt cylinders are telescopic, providing lower profile and equal left and right tilt torque.
7. The RoboVib +/- 40 deg tilt is 33% more than the competition, allowing additional reach when loading or unloading piles.
8. Rectangular clamp jaws on side grips provide more clamping area than round jaws.
9. Bottom clamp uses precision-guided slider per accepted vibratory hammer practice. Clamp cylinder is directly aligned with the fixed jaw—no offset.
10. Most components contained within welded steel frame for protection and exceptional strength.
11. No solenoid valves or wiring mounted on RoboVib. Valves and wiring are remotely mounted on excavator boom to avoid vibration damage.
12. Both the side grip and the bottom clamp jaws are identical to minimize inventory. Additionally, all RoboVib jaws have the J&M exclusive “Kryponite” coating for exceptional wear life.
13. Three eccentrics are vertically stacked to minimize distance between driving force and pile center.
14. Commonly available elastomers isolate vibration from excavator. Extra elastomer mounting positions are provided so spring rate may be optimized for tough pile extraction applications.
15. Lockable adjusting nuts eliminate clearance in side grip arms to reduce vibration wear, and insure long life.
16. Commercial, high pressure gear motor is interchangeable to exactly match excavator hydraulic flow to RoboVib. No flow controls or restrictions to cause damaging heat buildup in excavator hydraulic system.
17. Gun-drilled hydraulic distribution manifold is integral to suspension yoke to minimize plumbing, and perfectly align hydraulic swivel.
18. Replaceable offset bushings at the excavator connection allow pin diameter and center distance changes to accommodate various brands and sizes of excavators.
19. Minimum width, fixed side clamp arm allows driving of H-piles as small as 10”.
20. Bottom clamp slider is chrome plated and greaseable via protected fitting.
21. Lips on side grip arms allow “nested” sheet piles to be split for lifting access.
22. Integral sling hook, with safety latch, facilitates lofting piles and other lifting.
23. Large bore hydraulic swivel provides 360 deg continuous rotation, with minimum flow restriction.
24. Wide, T-1 steel side grip arms provide exceptional rigidity to transmit vibratory output force.
25. All hydraulic cylinders are designed for vibratory duty.

