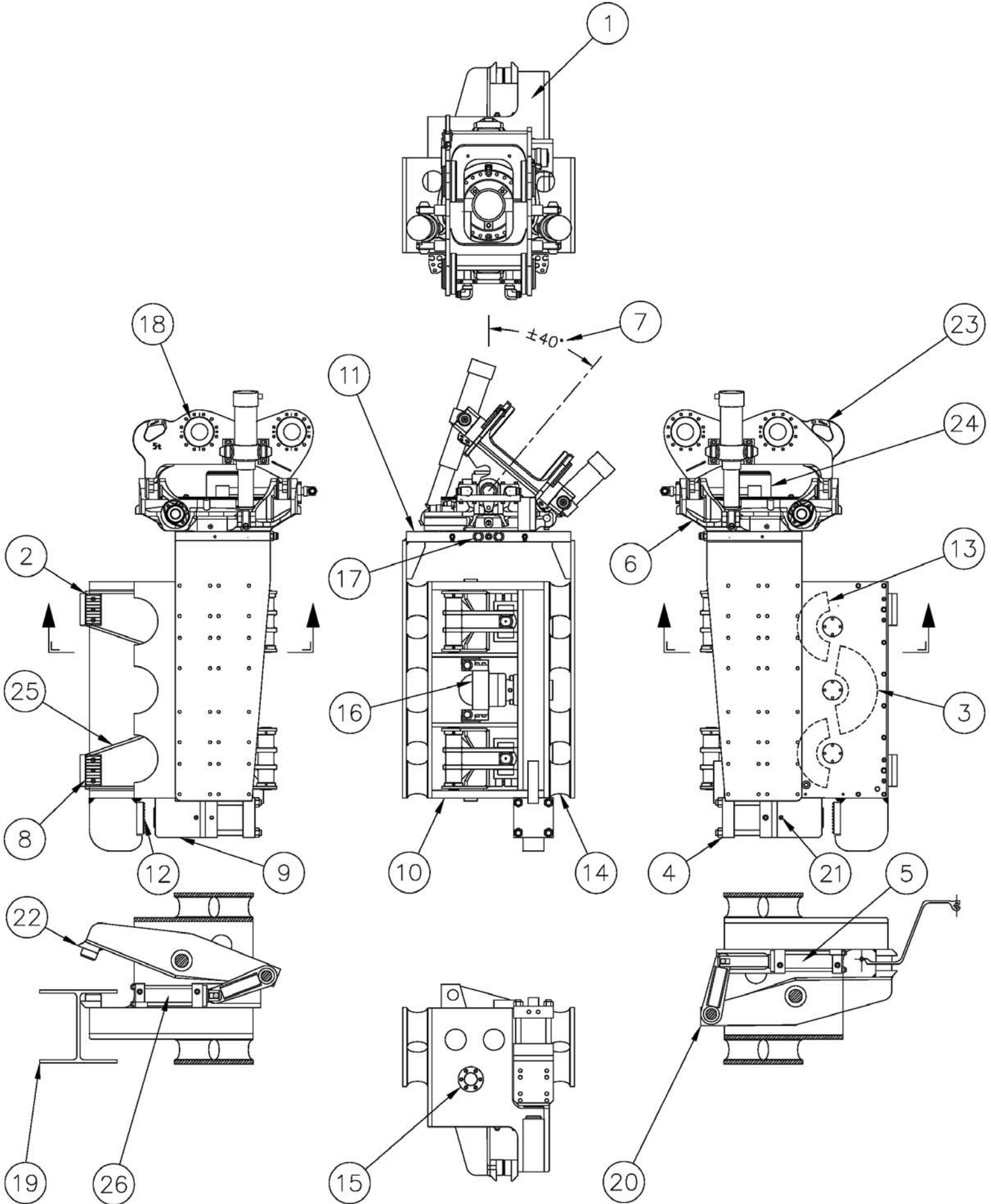


ROBOVIB



ROBOVIB FEATURES

Better by Design



ROBOVIB – Not just better, Exceptional

1. The **ROBOVIB** eccentrics are located within the fixed, side grip, arm. Centerline of dynamic force is much closer to the gripping jaws, thus significantly reducing off center force input to pile. So what? **ROBOVIB** gets more driving energy to the tip of the pile.
2. Vertical distance between side grip jaws is increased to better resist off center, moment, load caused by both dynamic force and excavator force, which also equates to ability to resist off center force.
3. **ROBOVIB** eccentric moment is 22% greater than competitive units, producing significantly larger driving amplitude.
4. Both side grip clamp arms, and the bottom clamp, each have an individual actuating cylinder. No, poorly guided, trouble prone, dual purpose cylinders as in competitive units.
5. Side grip actuation cylinders are rigid mounted to transmission case, thus eliminating horizontal, pin mounted, cylinders, which are subject to vibration damage. **ROBOVIB** cylinder rods are fully guided by rollers, and actuate the clamp arms via force enhancing linkage.
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. Single tilt cylinder on competitive units means left tilt is about half as powerful as right tilt.
7. **ROBOVIB** $\pm 40^\circ$ tilt is 33% more than the competition. Increased tilt allows additional left/right 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 “**Kryptonite**” 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 build up in excavator hydraulic system.
17. Gun drilled hydraulic distribution manifold is integral to suspension yoke, to minimize plumbing, and perfectly align hydraulic rotation swivel.
18. Replaceable, offset, bushings at the **ROBOVIB** 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. All linkage, and side grip arm, pivot points are greaseable for long wear life.
21. Bottom clamp slider is chrome plated, and greaseable via protected fitting. Gripping teeth are hardened for long life.
22. Lips on side grip arms allow “nested” sheet piles to be split for lifting access. Wide opening of side grip arms allows multiple piles to be clamped when unloading trucks.
23. Integral sling hook, with safety latch, facilitates lofting piles and other lifting.
24. Large bore hydraulic swivel provides 360° continuous rotation, with minimum flow restriction.
25. Wide side grip arms, fabricated from high strength T-1 steel, provide exceptional rigidity to transmit vibratory output force.
26. All hydraulic cylinders are designed for vibratory duty, and include filled nylon bearings on the piston, and piston rod, for non abrasive guiding.

WHY NOT: If You're a first time, or an all the time, pile driver, **ROBOVIB** can provide a competitive advantage in sub-contract cost, mobilization time, equipment expense and labor cost. Imagine a removable excavator attachment that will allow one man to unload "H" beams, "I" beams and sheet piles from a truck, raise them to vertical, position them with precision and drive them to grade, without any auxiliary equipment. **ROBOVIB** expands your bidding capability because its side grip pile driving versatility allows trenching, shoring and retaining wall work in low head room situations, including in plant, under bridge, inside tunnels and barge mounted. Powered by excavator hydraulics, and fully articulated, **ROBOVIB** drives piles up to 40' long, much more economically, and with superior safety, than conventional, crane handled, methods. More efficient and heavy duty than anything else on the market, and able to drive piles from the side or from the top, **ROBOVIB** answers the contractors plea for a reliable excavator mounted vibratory driver.

WHY ROBOVIB: Sure, there are similar looking machines on the market, but they are still plagued by the same problems that they had when introduced in the early '90s. Why should they change, they were "the only game in town", and they are designed by arrogant European engineers who know more than USA contractors. **ROBOVIB** was designed by American engineers who have been designing pile drivers since 1974. Further, our engineers and consultants used to sell these European units, and are painfully familiar of the maintenance nightmares and frail construction. We've done our homework and addressed all the known problems, plus our unique design gives **ROBOVIB** a quantum increase in driving efficiency and overall performance.

See your local American Piledriving Equipment / J&M Foundation Equipment Dealer

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