APE Vibratory Hammer
Safety Precautions

Safety Information and Documentation for APE Vibratory Hammers
Refer to APE Manual for Comprehensive Safety Instructions
The APE Daily Vibro Checklist is essential for operating all APE Vibratory Hammers as safely and efficiently as possible. Each point on the checklist should be reviewed prior to the operation of equipment. If equipment or components are damaged or show excessive signs of wear, repair device or consult an APE service technician before operating the vibratory hammer.
Worn Jaw Protocol

The teeth on either jaw, fixed or movable, can be worn up to half the original depth if the teeth are evenly worn. Note that all teeth must engage the work. Note also that there must be room in the concave area of the jaws to clear the inner-lock of the sheet pile.

NEW

OK

No Good

All teeth must engage the work.
PILE SURFACE COATING AND VIBRATORY EQUIPMENT

Note: The pile must be clean of any surface coatings in the clamping area of the vibratory clamping system.

Coatings may include but are not limited to Galvanization, Epoxy, Rust, ETC…

Failure to clean piles in the clamping area may cause clamp slippage and dropped piles.

In addition, the clamping teeth must be in good condition and all the teeth of the jaws must be in the work of the pile. (see “Worn Jaw Protocol)

Always have a safety line attached to the pile while driving or extracting.

Never carry the pile with the clamps.
Refusal Criteria for Vibros

The pile must move one foot in 30 seconds of vibro operation at full speed.

Use heat gun to monitor the temperature of the bearings & related components to prevent use of the machine beyond 195 degrees (F°) at the bearing covers.

WARNING
VIBRO GEARBOX MUST NOT EXCEED 190-F

WARNING
Do not weld on or around Power Unit & Vibro
You can carry the pile with the clamp, as long as you have a safety line attached to the pile.
Safety Precautions
(This list of precautions must be followed at all times to ensure personal & equipment safety.)

1. Read this manual from beginning to end before operating or working on this machine.

2. When operating in a closed area, pipe exhaust fumes outside. (WARNING: Breathing exhaust fumes can cause serious injury and even death.)

3. When servicing batteries, avoid any type of spark or open flame. Batteries generate explosive gases during charging. There must be proper ventilation when charging batteries.

4. Never Adjust or repair the unit while it is in operation.

5. Make sure the Control Pendant is in the "OFF" position before starting the unit.

6. Remove all tools and electrical cords before starting the unit.

7. Keep oily rags away from the exhaust system.

8. Never store flammable liquids near the engine.

9. Never stand under vibro at any time and keep your eyes on the vibro when it is in operation. Keep a look out for loose bolts or leaking hydraulic lines.

10. Avoid pulling on hose quick dis-connect fittings. Move power unit closer to work if hoses cannot reach. Do not use hoses as a tow line to tug the power unit! If a hose fails at the hydraulic couplers then it is a result of "hose tugging by the pile crew".

11. Avoid kinks in the hoses. Kinks will cut the hose safety factor by 50 percent.

12. Always wear eye and ear protection.

13. Avoid standing downwind of vibrating piles. Dirt and other matter may become airborne and fall into the unprotected eye.


15. When moving, driving or extracting pile, always attach safetyline between pile and crane hook.

16. (WARNING) Never clamp vibro to pile and dis-connect from crane line. Lay vibro down on ground when not in use.

17. Do not truck power unit with quick disconnect caps and plugs screwed on to fittings unless the caps and plugs have wire rope safety lines attached. Store in storage box under control panel.
NOTES: