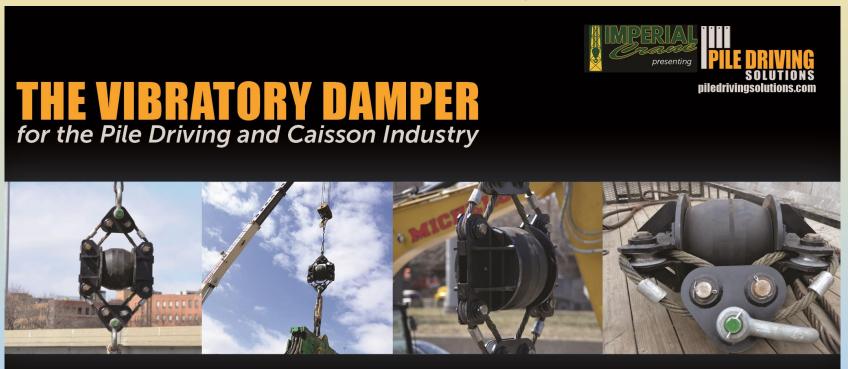
APE explains why a vibration dampener is not used with APE Vibros





Some claim that a vibration dampener must be used with a vibro to suppress the vibration to the crane. This is not true when using APE Vibros on the job.



- Easily and effectively reduces damage to cranes
- Maximizes the safety of the crane work being done
 - Decreases extraction time

- Minimal set up and maintenance
- Extends the life expectancy of the crane
 - Can be used on all model cranes

Vist us at the SC&RA Annual Conference April 30 - Orlando, FL - Booth #20 To purchase, contact Jay Mooncotch | jmooncotch@piledrivingsolutions.com | 708-774-5562



Lets look at the Vibration Dampener from a practical point of view and what its original design was intended to accomplish.





In the past, Chinese manufactured electric vibratory driver/ extractors use Rail Road Car Springs as their vibration suppressor. (As seen to the right)

These electric vibratory hammers did not have a built in Suppressor to keep the vibration out of the boom of the crane.

Their answer to boom shake was the "Spring Vibration Suppressor" and though it was rudimentary at best, it did it's job and kept the vibration out of the boom of the crane.





The Vibration Dampener was originally made for the Tunkers Vibratory hammer as seen below. The Tunkers vibratory hammer does NOT have a built in vibration suppressor system.





The reason for the Tunkers Vibration Dampener was the fact that the Tunkers Vibratory Hammers do NOT have a built in Vibration Suppressor System.

The APE Two-Stage Suppressor, below, is the highest state of the art suppressor system available on the market.

APE Two-Stage Suppressor

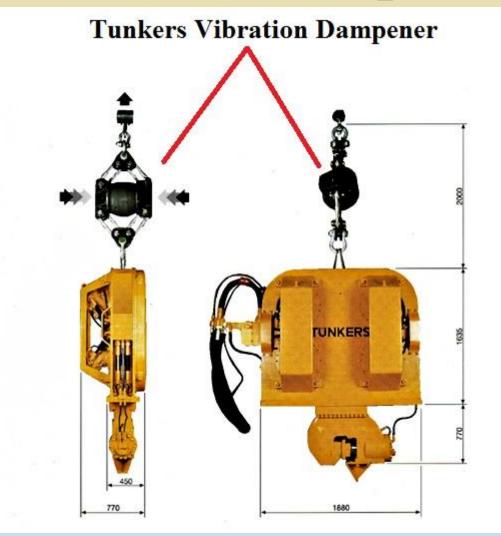


Tunkers... NO Suppressor





Tunkers solution to NO Suppressor is the "Vibration Dampener"

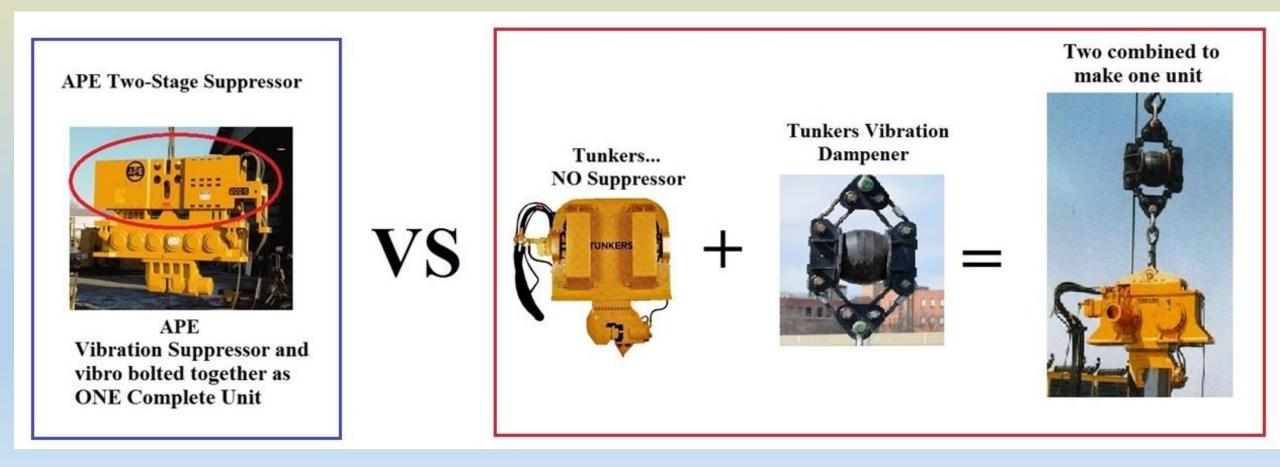




APE vs Tunkers The APE vibratory hammer has a built in state of the art Two Stage Suppressor which eliminates boom shake.



Tunkers vibratory hammer is designed and built with no suppressor. Needing something to eliminate boom shake, Tunkers added the vibration dampener.



For over 25 years APE has been driving and pulling piles with our vibratory driver/ extractors and our state of the art Two-Stage Suppressor System



During all these years, APE has never damaged a crane boom due to excessive vibration. This is due to the APE Two-Stage Suppressor which is the BEST vibration dampening system in the foundation industry and is superior to any other suppressor system available to the contractor, including the Tunkers vibration dampener.





I would like to introduce you to the APE Two-Stage Suppressor Technology

Understanding Vibro Suppressors

Old Technology Single Stage Suppressor



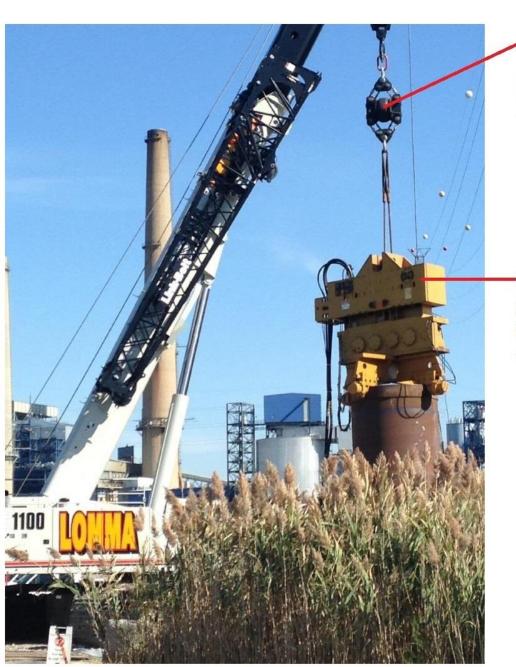
New Technology APE Two-Stage Suppressor System





APE Two-Stage Suppressor

Relaxed or Driving Position 1st Stage Line Pull All Elastomers are in neutral **Vibration Dampening** suspension 2nd Stage **Small Elastomers** Small elastomers pick Stiffer but higher up the difference capacity line pull between the maximum line pull and where the **1st Stage** Large elastomers leave off. Large Elastomer Large SOFT Elastomers **Much Softer with** initially start with line lower capacity line pull pull of crane with no Much residual vibration to the boom more capacity with no Depending on size of vibro this 1st Stage is vibration good for up to 90 Tons to the of line pull crane line.



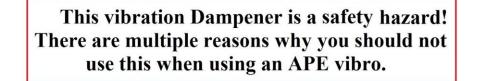
The Tunkers Vibration Dampener capacity is maximum 90 Tons of total line pull and when fully collapsed does nothing and may fail causing catastrophic damage to the crane and the equipment.

This Tunkers vibration suppressor limits the amount of line pull reducing the efficiency of the vibro

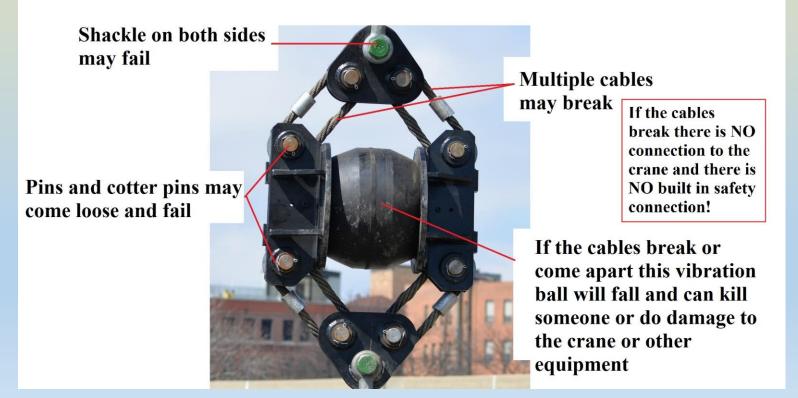
Built in APE Two-Stage Suppressor good for up to 90 Tons of line Pull in the first Large Elastomer "Soft" Stage with a total line pull of 250 Tons.



This Vibration Dampener is Dangerous to personnel as well as to the crane!



Reduces Line Pull Capacity
Multiple connections may cause failure
NO built in SAFETY device





APE Two-Stage Suppressor

Large "Soft" Elastomers obsorb the vibration in soft driving and soft extraction up to 90 Tons of line pull on some models. The Small elastomers increase line pull capacity up to 250 Tons on some models. 166 164 188 186 120 48 142 198 126 170 134 176 8 7 180 APE Two-Stage Suppressor has a built in 6 safety "STOP" Pin in the event that all the elastomers fail. This gives us a 100% 152 connection to the crane at all times which takes away the potential for damage to the crane and equipment in case of failure.



Bottom Line

The APE Two-Stage Suppressor System is time proven by the contractors that use them in the Foundation Industry World Wide! APE Vibratory Driver/ Extractor with the Two-Stage Suppressor does NOT need a vibration dampener as a solution to vibration.

APE already has the solution to the vibration issue. The APE Two-Stage Suppressor! It has been in use for over 25 years with out damaging a single crane due to excessive vibration!

APE will let History speak for itself.

Talk to any of the contractors in the Foundation Industry that have used APE equipment and they will testify that the Two-Stage Suppressor stands the test of time!





