Amplitude

 $A = 2 \times Mt$

Mt = Eccentric Moment in inch pounds

Μv

Mv = Total Vibrating Weight

A = Amplitude in inches

Vibrating weight: Mv

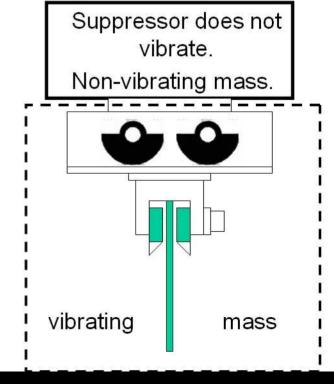
The vibrating weight is the sum of all

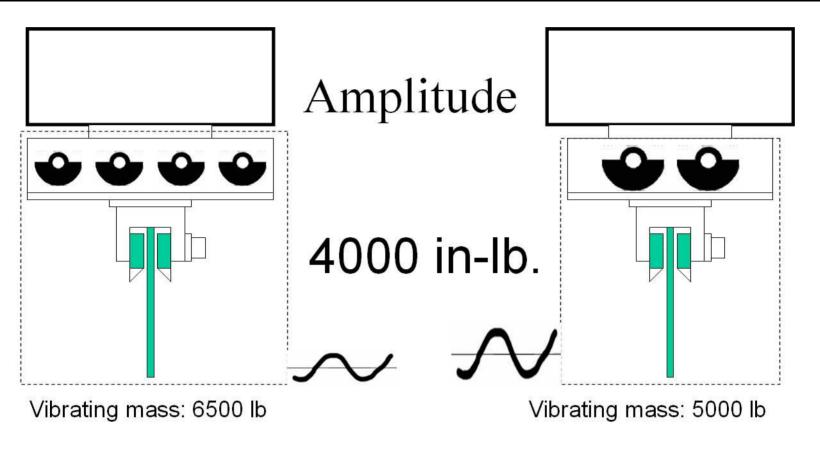
the weights of the vibrating mass.

B: Gear Box (vibrating mass)

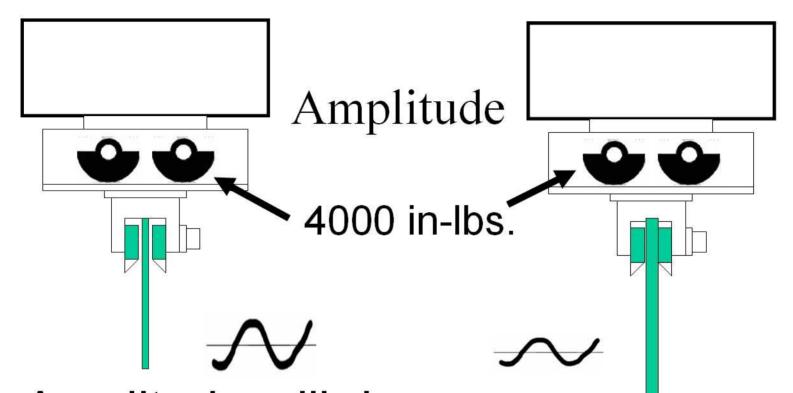
C: Clamping device including all plates or clamps

D: Pile weight



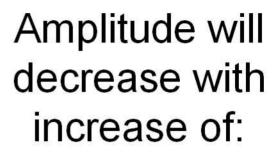


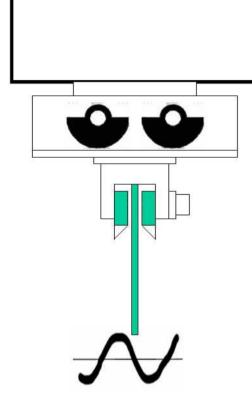
The hammer on the left has the same eccentric moment but less amplitude because the vibrating mass is heavier.



Amplitude will decrease with increase of pile weight. Big piles need bigger vibros to offset loss of amplitude.

Amplitude





- · Pile weight
- Soil resistance
- Weights, gears, shafts, hoses, motors
- Extra clamp attachments
- Anything that increases vibrating mass.

Amplitude = $\frac{2 \times EM}{VM}$

EM: Eccentric Moment

VM: Vibrating Mass