

Amplitude Calculations

Select vibrator driver size by using these calculations for amplitude

Amplitude equation- non-metric

 $A = \underbrace{2 \times EM}_{VM}$

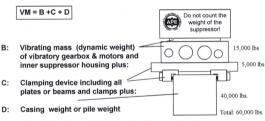
EM = Eccentric moment in VM = Vibrating mass

= Vibrating mass lbs = Amplitude in incl

n in-lbs lbs inches

VM - Vibrating Mass includes the following:

The vibrating mass is the sum of all the weights in vibration:



Note: Calculate casing weight using the following formula:

OD (outside diameter) less wall thickness times wall thickness times 10.69= lbs per foot. Take lbs per foot and mutiply by total length of pile.

OD - wall thickness X wall thickness X 10.69 = lbs per foot

Example for vibro shown above:

Visit our WEB site: www.apevibro.com e-mail: ape@apevibro.com

2 X 13,000 = 26,000/60,000 = .433 inches of amplitude
Please go to larger vibro if amplitude is less than 0.125