VIBRATORY PILE DRIVER

Excavator Attachment

BY-VH250

Working Principle

Vibrating Pile hammer is using its high frequency vibration to vibrate pile body with high acceleration to pass the vertical vibration of mechanical produce to pile which leading to changes in the soil structure around the pile, strength decrease. Soil around the piles become liquefaction to reduce frictional resistance between side of the pile and the soil. Then using the excavator down force, vibrating pile hammer and pile body weight to sink pile into the soil. When extracting piles, in the condition of vibration to pull out the pile by using excavator lift force. Excitation force needed by pile driving machinery are comprehensive determined by site soil, soil condition, moisture content and type of pile, construction.

Engineering Application Scope

The efficient of vibration pile method is higher than other methods. It is mainly applied to steel sheet pile, steel pipe pile and long slender concrete precast pile within 8 meters. This pile driving method is the most suitable for working in sand and poorer effect in the clay which must select higher power model machines.

Product Parameters

Module	UNIT	BY-VH250	BY-VH330	BY-VH350	BY-VH450
Eccentric moment	NM	40	50	65	85
Frequency	RPM	2800	2800	2800	2800
Excitation Force	TON	36	45	58	75
Weight of main body	KG	1500	2200	2800	3500
OperatingPressure of oil system	BAR	280	280	300	300
Flow Demand for Hydraulic oil system	LPM	155	168	210	255
Excavator	TON	18-25	30-40	40-50	40-65
Max pile length	M	9	13	16	18

Long arm