HV Standard Frequency with Variable Amplitude Vibrodrivers

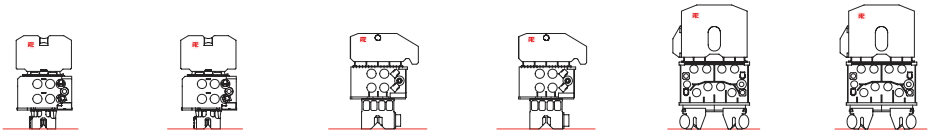
With the development of vibratory hammer, the market has required a more economical, intermediate size machine with the advantages of the variable amplitude, but working at the standard frequency while obtaining the same results.

PTC has therefore, developed a new range of machines which is very competitive in price. This range requires less powerful power packs than high frequency machines and offers the considerable advantage of the variable moment, namely: the variable amplitude.

The HV vibrodrivers have the following main features:

- standard frequency;
- the HV does not damage the hydraulic cylinders of the telescopic boom on mobile cranes;
- the variable moment system which is integrated into the vibrator, allows the starting up and stopping down without vibrations thanks to the control of the amplitude;
- allows to work in immediate proximity of sensitive buildings, as well as in built-up areas without damaging the environment;
- with the Vibmaster (the PTC control and monitoring system) the level of vibration transmitted to the environment can be kept under a fixed soil particle velocity (5 mm/s for instance).

HV Vibrodrivers (Standard Frequency Vibrators with Variable Amplitude)



		25HV	30HV	60HVW	65HVW	120HV	130HV
Vibrator							
Power of vibrator	kW/hp	173/235	230/312	330/449	378/514	451/613	564/767
Eccentric moment	m.kg	0-23.5	0-30	0-60	0.65	0-120	0-130
Maximum frequency	Hz/rpm	27/1 620	28/1 680	28/1 680	27/1 620	23/1 380	23/1 380
Max. centrifugal force	kN	690	946	1 890	1 910	2 550	2 766
Max. line pull capacity	kN	400	320	600	600	1 200	1 200
Vibrating weight	kg	2 850	2 900	6 350	6 420	9 500	9 700
Total weight	kg	4 350	4 400	8 200	8 270	14 250	14 450
Max. amplitude	mm	16.5	21	19	20	25.3	26.8
Cooler*		option	option	option	option	Option	Option
Length	m	1.800	1.800	2.220	2.220	2.300	2.300
Max.width	m	0.875	0.875	1.090	1.090	1.505	1.505
Centre width	m	0.340	0.340	0.800	0.800	0.800	0.800
Height without clamp	m	2.400	2.400	2.125	2.125	3.260	3.260
Power Pack							
Type		260	350	600	700	800	1 000
Intermittent rating of engine DIN6271 or ISO3046	kW/hp	205/279	242/329	403/548	433/588	571/776	656/892
Engine model		CAT C7 ACERT	CAT C9 ACERT	CAT C15 ACERT	CAT C15 ACERT	CAT C18 ACERT	CAT 3412C DITTA
Max. rotation speed	r.p.m	2 300	2 300	2 300	2 300	2 100	2 100
Max. oil flow	l/mn	280	400	600	680	820	960
Max. working pressure	bar	385	385	385	385	385	385
Hydraulic oil capacity	l	310	310	690	690	815	820
Fuel capacity	l	560	560	1 080	1 080	1 100	1 100
Length	m	4.000	4.000	4.680	4.680	5.000	5.000
Width	m	1.600	1.600	1.800	1.800	2.080	2.040
Height	m	2.040	2.040	2.340	2.340	2.415	2.275
Weight without fuel	kg	4 000	4 200	7 000	7 000	9 000	9 500
Connecting Hoses							
Standard length	m	30	30	30	30	45	45
Weight	kg	395	395	615	615	1 050	1 050
Clamping Head							
Single sheet piles not Z, straight web, double Z shaped sheet piles and H profiles		Agriplex 85 t 430 kg	Agriplex 120 t 750 kg	Agriplex 240 t 2 150 kg	Agriplex 240 t 2 150 kg	Agriplex 240 t 2 150 kg	Agriplex 240 t 2 150 kg
Double sheet piles		Multiplex 2 x 42 t 980 kg	Multiplex 2 x 55 t 1 300 kg	Multiplex 2 x 120 t 2 200 kg	Multiplex 2 x 120 t 2 200 kg	Multiplex 2 x 150 t 3 100 kg	Multiplex 2 x 150 t 3 100 kg
Casings and most box piles		Duplex 2 x 42 t 590 kg	Duplex 2 x 55 t 950 kg	Duplex 2 x 120 t 1 660 kg	Duplex 2 x 120 t 1 660 kg	Quadriplex 4 x 120 t 3 200 kg Duplex 2 x 150 t 3 100 kg	Quadriplex 4 x 120 t 3 200 kg Duplex 2 x 150 t 3 100 kg

* Noticeably for continuous running