

Comparison of curves

PTC HFV & HV Vibrodriver (standard and high frequency with variable amplitude)

a Starting without any vibrations

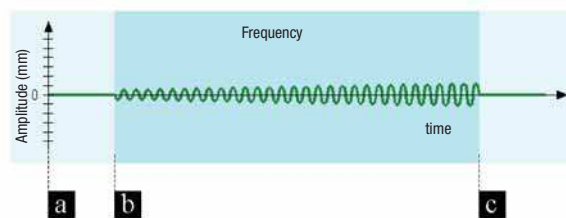
- no amplitude
- no resonance
- no dangerous shaking zone

b Driving with adjustable amplitude from 0 to 10 mm (for instance), with a particle velocity of 3 mm/s, can be located at 2 m from sensitive constructions.

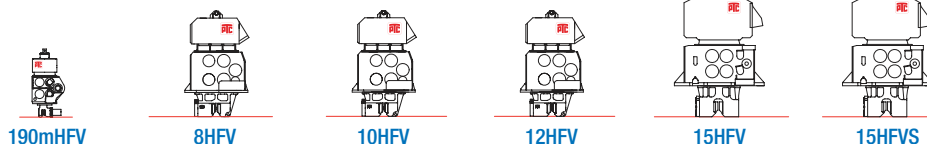
- with high frequency (38 Hz, 2 300 rpm) vibrations are less sensitive, and the efficiency is increased by 25 %

c Stopping without any vibration

- no dangerous shaking zone



HFV Vibrodrivers (High Frequency Vibrators with Variable Amplitude)



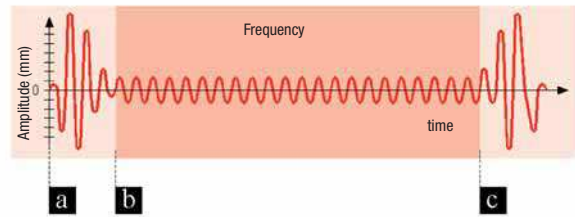
Vibrator		190mHFV	8HFV	10HFV	12HFV	15HFV	15HFVS
Power of vibrator	kW/hp	27/37	107/145	107/145	125/170	156/212	200/272
Eccentric moment	m.kg	0-1.9	0-8	0-10	0-12	0-15	0-15
Maximum frequency	Hz/rpm	45/2 700	38/2 300	38/2 300	38/2 300	38/2 300	38/2 300
Max. centrifugal force	kN	155	473	590	710	890	890
Max. line pull capacity	kN	50	100	100	100	300	300
Vibrating weight	kg	415	1 690	1 700	1 710	2 200	2 210
Total weight	kg	550	2 090	2 100	2 110	3 180	3 200
Max. amplitude	mm	9.1	9.5	11.7	14	13.6	13.5
Cooler*		-	-	-	-	-	-
Length	m	0.680	1.250	1.250	1.250	1.780	1.780
Max.width	m	0.548	0.600	0.600	0.600	0.780	0.780
Centre width	m	0.285	0.350	0.350	0.350	0.340	0.340
Height without clamp	m	1.098	1.474	1.474	1.474	1.900	1.900
Power Pack							
Type		85	180	220	220	260	350
Intermittent rating of engine DIN6271 or ISO3046	kW/hp	60/81	127/173	138/184	138/184	205/279	242/329
Engine model		J. DEERE 4045D	J. DEERE 6068 TF275	J. DEERE 6068 HF275	J. DEERE 6068 HF275	CAT C7 ACERT	CAT C9 ACERT
Max. rotation speed	r.p.m	2 500	2 500	2 400	2 400	2 300	2 300
Max. oil flow	l/mn	85	180	230	230	280	400
Max. working pressure	bar	385	385	385	360	385	385
Hydraulic oil capacity	l	125	270	270	270	310	310
Fuel capacity	l	150	260	260	260	560	560
Length	m	2.400	3.150	3.285	3.285	4.000	4.000
Width	m	0.950	1.270	1.270	1.270	1.600	1.600
Height	m	1.650	1.865	1.885	1.865	2.040	2.040
Weight without fuel	kg	1 500	3 200	3 250	3 250	4 000	4 200
Connecting Hoses							
Standard length	m	15	30	30	30	30	30
Weight	kg	110	265	265	265	395	395
Clamping Head							
Single sheet piles not Z, straight web, double Z shaped sheet piles and H profiles		Agriplex 22 t 72 kg	Agriplex 55 t 360 kg	Agriplex 85 t 430 kg	Agriplex 85 t 430 kg	Agriplex 120 t 750 kg	Agriplex 120 t 750 kg
Double sheet piles		-	Multiplex 2 x 42 t 900 kg	Multiplex 2 x 42 t 900 kg	Multiplex 2 x 42 t 900 kg	Multiplex 2 x 55 t 1 300 kg	Multiplex 2 x 55 t 1 300 kg
Casings and most box piles		-	Duplex 2 x 42 t 590 kg	Duplex 2 x 42 t 590 kg	Duplex 2 x 42 t 590 kg	Duplex 2 x 55 t 950 kg	Duplex 2 x 55 t 950 kg

* Noticeably for continuous running

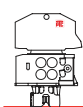


Traditional vibrator (standard frequency with fixed amplitude)

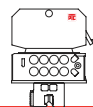
- a** Starting without large amplitude
 - resonance non-controllable
 - dangerous shaking zone
- b** Driving with fixed amplitude
 - with standard frequency (28 Hz, 1 700 rpm)
- c** Stopping without large amplitude
 - resonance non-controllable
 - dangerous shaking zone



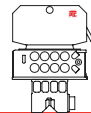
HFV Vibrodrivers (High Frequency Vibrators with Variable Amplitude)



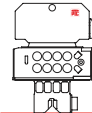
17HFV



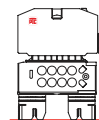
23HFV



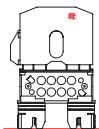
30HFV



34HFV



48HFV



60HFVS

Vibrator		17HFV	23HFV	30HFV	34HFV	48HFV	60HFVS
Power of vibrator	kW/hp	215/292	222/302	307/417	405/550	540/734	662/900
Eccentric moment	m.kg	0-17	0-23	0-27	0-34	0-48	0-54
Maximum frequency	Hz/rpm	38/2 300	38/2 300	38/2 300	38/2 300	37/2 200	38/2 300
Max. centrifugal force	kN	1 000	1 360	1 596	2 010	2 640	3 190
Max. line pull capacity	kN	300	400	400	400	530	600
Vibrating weight	kg	2 880	3 610	3 770	5 000	5 700	6 360
Total weight	kg	4 380	5 500	5 600	7 000	8 000	11 200
Max. amplitude	mm	11	13	14.3	13.6	17	17
Cooler*		standard	option	option	standard	standard	option
Length	m	1.965	2.200	2.200	2.320	2.350	2.280
Max.width	m	0.910	0.860	0.860	0.860	1.120	1.410
Centre width	m	0.380	0.340	0.340	0.380	0.530	0.840
Height without clamp	m	2.120	2.115	2.115	2.255	2.490	2.830
Power Pack							
Type		450	450	600	800	1 000	1 200
Intermittent rating of engine DIN6271 or ISO3046	kW/hp	313/426	313/426	403/548	433/588	656/892	746/1 015
Engine model		CAT C11 ACERT	CAT C11 ACERT	CAT C15 ACERT	CAT C18 ACERT	CAT 3412C DITTA	CAT 3412C DITTA
Max. rotation speed	r.p.m	2 300	2 300	2 300	2 100	2 100	2 100
Max. oil flow	l/mn	510	510	600	820	960	1 170
Max. working pressure	bar	385	385	385	385	385	385
Hydraulic oil capacity	l	390	390	720	815	820	1 030
Fuel capacity	l	870	870	925	1 100	1 100	1 650
Length	m	4.225	4.225	4.680	5 000	5.000	5.100
Width	m	1.600	1.600	1.840	2.080	2.040	2.240
Height	m	2.210	2.210	2.340	2.415	2.275	2.230 (2.630)
Weight without fuel	kg	5 250	5 250	7 000	9 500	9 500	10 000
Connecting Hoses							
Standard length	m	30	30	30	45	45	45
Weight	kg	395	395	615	1 200	1 200	1 670
Clamping Head							
Single sheet piles not Z, straight web, double Z shaped sheet piles and H profiles		Agriplex 120 t 750 kg	Agriplex 170 t 1 250 kg	Agriplex 240 t 2 150 kg	Agriplex 240 t 2 150 kg	Agriplex 240 t 2 150 kg	Double Agriplex 2x240 t 5 500 kg
Double sheet piles		Multiplex 2 x 55 t 1 300 kg	Multiplex 2 x 85 t 1 650 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 55 t 950 kg	Duplex 2 x 85 t 1 250 kg	Duplex 2 x 120 t 1 660 kg	Duplex 2 x 120 t 1 660 kg	Duplex 2 x 150 t 3 100 kg	Duplex 2 x 150 t 3 100 kg

* Noticeably for continuous running