EXCAVATOR MOUNTED VIBRATORS

DAWSON EXCAVATOR MOUNTED VIBRATORS

NEW
HF with VARIABLE MOMENT available

Dawson excavator mounted vibrators have been designed specifically to work in place of an excavator bucket to drive and extract piles. The pile can be lifted to vertical using the built-in lifting chain where it is then gripped tightly in a powerful hydraulic jaw. Once secured, the pile is then vibrated with high frequency vibrations so as to 'fluidise' the soil resisting the pile.
Down-crowd force applied by the excavator boom, coupled with the self-weight of the pile and the vibrator, provides sufficient force to push the pile into the ground.

Naturally, the process works in reverse for pile extraction. The equipment offers a highly productive and cost effective piling rig based around a standard, readily available excavator!

PRINCIPAL ADVANTAGES

:::: Compact, robust and reliable - no electrics !
:::: Simple and fast attachment to excavator
:::: Minimal height to maximise pile length
:::: Slim design to drive single sheet piles
:::: High power to weight ratio
:::: Universal joint suspension for easy alignment of piles
:::: Extremely low vibration transmitted to the excavator
:::: Enviromentally friendly - low noise/localised directional vibration
:::: Automatic hydraulic clamp operation
:::: Flexiblity in application
:::: Flow regulator prevents excessive oil supply to vibrator
:::: Heavy saddles available for crane suspended models

The choice of a vibrator being based on several parameters (length and type of profile, type of ground, etc. ..).

We are at your disposal to advise you.

They can be fitted with tubes clamp and wooden piles.

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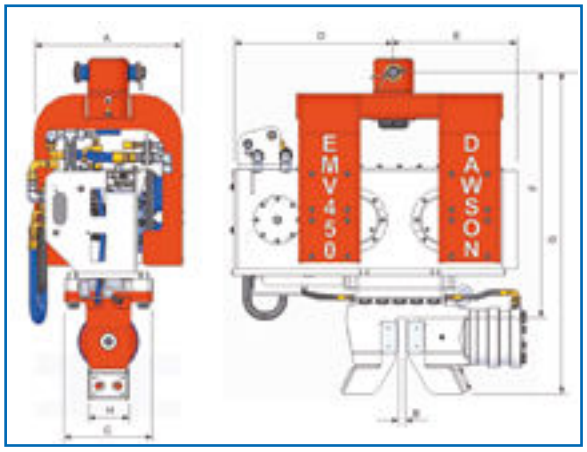

Vibrator	Units	EMV 70	EMV220	EMV 300A	EMV 400	EMV 450	EMV 550
Eccentric moment	kg	0,7	3,24	4,6	6,2	6,9	8,3
Frequency	T/min.	3000	3000	2400	2460	2460	2500
Centrifugal force	kN	70	220	300	400	450	550
Amplitude	mm	3,4	12	14,7	14	12	13
Minimum required flow	l/min.	30	90	130	195	195	256
Maximum required flow	l/min.	120	250	250	350	350	400
Minimum req pressure	bar	240	280	240	240	270	280
Maximum required pressure	bar	350	350	350	350	350	350
Minimum hydro motor power	kW	12	42	52	80	88	120
Dynamic weight	kg	410	370	625	910	1008	1150
Total weight	kg	520	525	860	1175	1275	1500
Maximum profil weight	kg	800	800	800	1000	1000	1400
Max pull/push loading	kg	2800	7500	15000	15000	15000	15000
Typical excavotor weight	Tonne	5 to 15	7 to 22	12 to 35	25 to 45	27 to 45	30 to 55
Dimensions in mm	A	360	445	615	615	615	750
	B	25	40	25	25	32	40
	C	250	150	250	220	230	230
	D	455	431	582	640	640	850
	E	340	431	429	510	510	560
	F	672	850	926	970	945	985
	G	942	1120	1200	1250	1250	1400
	H	150	130	150	150	180	195