



DAWSON
CONSTRUCTION PLANT LTD

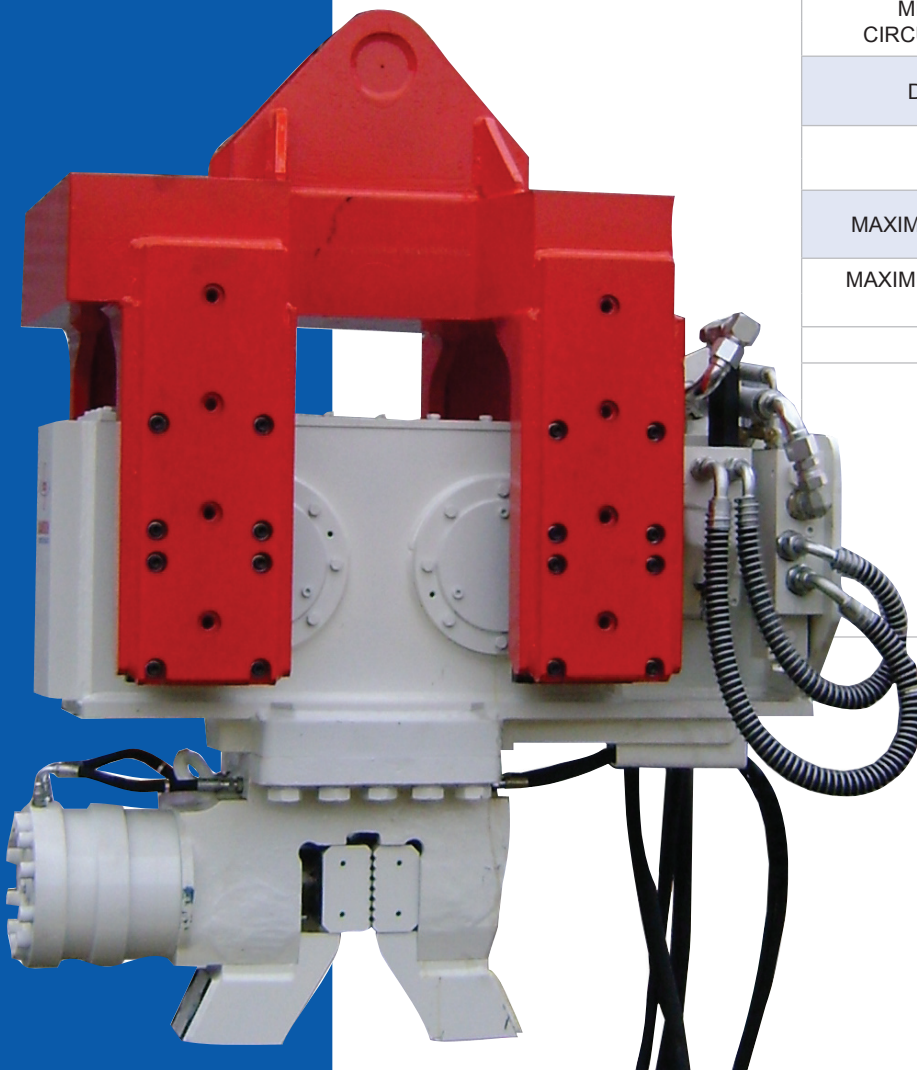
CRANE SUSPENDED VIBRATOR - CSV450

**INNOVATIVE
PILING
EQUIPMENT**

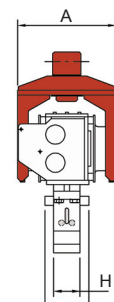
DAWSON CONSTRUCTION PLANT
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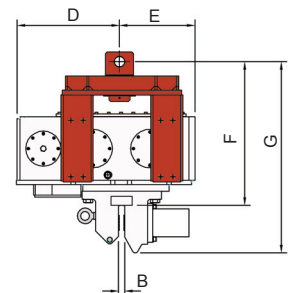
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SPECIFICATION	UNITS	Vibro Model
		CSV450
STATIC MOMENT	in.lbs	606
	kgm	6.9
FREQUENCY	vpm	2,460
CENTRIFUGAL FORCE	lbs	100,000
	kN	450
AMPLITUDE - PEAK TO PEAK	ins	0.5
	mm	12
MINIMUM REQUIRED FLOW RATE	gpm	52
	l/min	195
MAXIMUM ALLOWABLE FLOW RATE	gpm	94
	l/min	350
MINIMUM HYDRAULIC MOTOR PRESSURE	psi	3,915
	bar	270
MAXIMUM HYDRAULIC MOTOR PRESSURE	psi	5,076
	bar	350
MINIMUM HYDRAULIC MOTOR POWER	hp	118
	kW	88
MAXIMUM CLAMP CIRCUIT PRESSURE	psi	3,915
	bar	270
MINIMUM CLAMP CIRCUIT PRESSURE	psi	3,770
	bar	260
DYNAMIC MASS	lbs	2,240
	kg	1,008
TOTAL MASS	lbs	4,092
	kg	1,860
MAXIMUM PILE MASS	lbs	2,240
	kg	1,000
MAXIMUM PUSH/PULL LOADING	lbs	33,600
	kg	15,000
CLAMP FORCE	Tonne	54
DIMENSIONS mm (inch)	A	615 (24)
	B	32 (1.25)
	C	230 (9)
	D	640 (25)
	E	510 (20)
	F	945 (37)
	G	1250 (49)
	H	160 (6.4)



(Min. Pile Width)





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This Dawson power pack is fully self contained, including all oil and fuel reservoirs, prime mover and hydraulic circuitry. The power pack is designed to be directly connected to the working element of the system; however it can be connected through further hydraulic valves to perform alternative operations with guidance from the manufacturer. The power pack is designed to produce a fixed oil

flow rate at a pre-set pressure to supply hydraulic piling hammers in various environments from hot summers in Kuwait to cold winters in Ontario. The diesel engine runs at a fixed RPM and is calibrated against the pump flow rate. A built in offline filtration system is used to condition the hydraulic oil to 2 microns and remove an amount of water contamination.

HOT METAL SPRAYED PRIOR TO
OFFSHORE SPEC. POWDER COATING.



PARKER PV+140cc
HYDRAULIC PUMP

CATERPILLAR C6.6 ACERT® - 6 CYLINDER
DIESEL MOTOR WITH TURBOCHARGER
AND INTER-COOLING.

SPECIFICATION	UNITS	DHP170
DIESEL ENGINE POWER	kW	168
	rpm	2200
HYDRAULIC SYSTEM PRESSURE	bar	270
	psi	3915
OIL FLOW RATE	l/min	270
SIZE - LENGTH x WIDTH x HEIGHT	m	3.8 x 1.5 x 2
	ins	149 x 59 x 78
WEIGHT	kg	4800
	lbs	10,560
FUEL CAPACITY	litres	700
FUEL CONSUMPTION @ 60%	litres / hour	28

