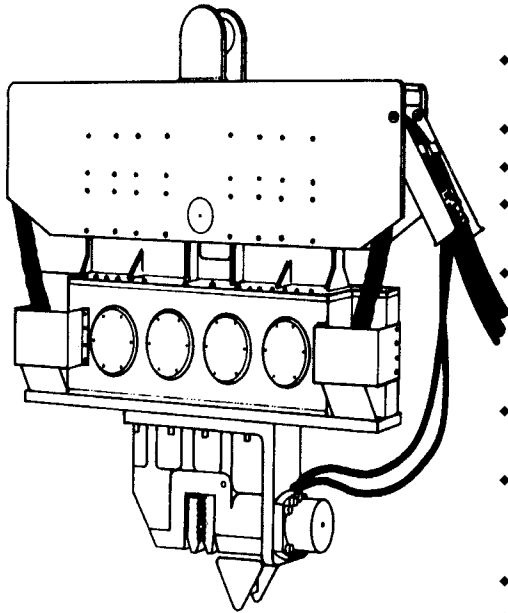


The J&M Model 416 Vibratory Driver / Extractor

Engineered for maximum versatility and maximum ownership utilization



- ◆ 2,200 in-lbs of precision cast Hi-Den® eccentric moment combined with a low-mass transmission provides the maximum possible pile amplitude.
- ◆ Variable hammer weight with optionally available segmental bias weights. Add 2000 lbs of driving weight for high friction or otherwise difficult soils.
- ◆ Patented on-the-hammer braking valve minimizes unwanted boom shake.
- ◆ Super-tough forged gears provide an unmatched 12-year useful life.
- ◆ 40-ton elastomeric suppressor handles your toughest pulling jobs while providing the industry's highest working load safety factor.
- ◆ Supplied with environment friendly non-toxic biodegradable hydraulic oil.
- ◆ Remote electric pendant control includes engine speed control for fuel efficiency and emergency engine stop for personnel safety. Duplicate full-function controls on panel eliminate downtime from accidental damage.
- ◆ Clamps include internal holding valves for safety and extra-heavy wall cylinders machined from solid blocks to eliminate cylinder guards.
- ◆ Highest quality Volvo (VOAC) pumps and motors in time proven reliable open-loop hydraulic system ensure maximum efficiency, maximum reliability and simpler, quicker unit serviceability.
- ◆ Optional digital radio remote provides total operator freedom of movement.
- ◆ Made in the USA by the industry's most technologically innovative manufacturer of hydraulic vibratory pile drivers / extractors since 1974.

VIBRATOR		POWER UNIT		
Eccentric moment	2,200 in-lbs (2535 kg-cm)	Engine	Caterpillar 3306TA	
Frequency	1600 vpm (1600 vpm)	Power	335 HP (250 kW)	
Centrifugal force	80 tons (710 kN)	Operating speed	2100 rpm (2100 rpm)	
Amplitude (free hanging)	0.98 in (25 mm)	Drive pressure	5,000 psi (345 bar)	
Max line pull for extracting	40 ton (355 kN)	Drive flow	87 gpm (330 lpm)	
Weight (no clamps or hoses)	7,400 lbs (3360 kg)	Clamp pressure	4,300 psi (295 bar)	
Non-vibrating weight	2,900 lbs (1315 kg)	Clamp flow	5.2 gpm (20 lpm)	
Height (without clamp)	70 in (1780 mm)	Weight (w/ full fluid & fuel)	9,600 lbs (4355 kg)	
Length	95 in (2415 mm)	Length	126 in (3200 mm)	
Width	17 in (430 mm)	Width	60 in (1525 mm)	
Throat width	14 in (355 mm)	Height	68 in (1730 mm)	
Hydraulic hose length	100 ft (30 m)	Hydraulic reservoir	270 gal (1020 l)	
Hydraulic hose weight	850 lbs (385 kg)	Fuel capacity	110 gal (415 l)	

HYDRAULIC CLAMPS:	Standard Universal Clamp	Single Sheet Z-Pile Clamp	Casing Clamps w/ 7' Beam	Concrete & Small Pipe Timber Clamp
Clamping force	125 tons (1112 kN)	125 tons (1112 kN)	160 tons (1423 kN)	53 ton (470 kN)
Weight	2,150 lbs (975 kg)	3,190 lbs (1447 kg)	3,260 lbs (1479 kg)	4,970 lb (2255 kg)
Length	45 ¾ in (1160 mm)	48 ½ in (1230 mm)	110 in (2795 mm)	43 in (1095 mm)
Width	12 in (305 mm)	18 in (460 mm)	13 ¾ (350 mm)	27 in (685 mm)
Height	37 ¾ in (960 mm)	41 ¼ in (1050 mm)	26 in (660 mm)	79 in (2005 mm)



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