



**DAWSON**  
CONSTRUCTION PLANT LTD

# OFFSHORE PILING HPH15K PILING HAMMER

**INNOVATIVE  
PILING  
EQUIPMENT**

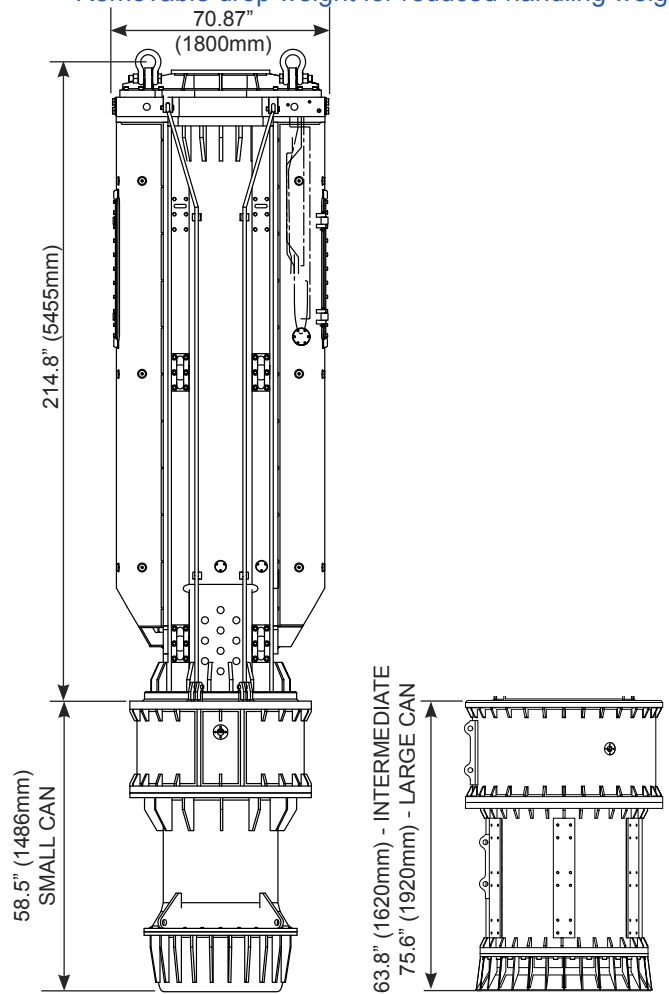
DAWSON CONSTRUCTION PLANT  
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MILTON KEYNES,  
MK6 1NE  
ENGLAND

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www.dcpuk.com



- Fast hammer blow rate for rapid pile penetration
- No electrical cables to the hammer, good reliability
- Robust construction
- Easily maintained by Diesel / Mechanical fitter
- Intelligent cushion block irons out peak stresses
- Very efficient energy transfer
- Removable drop weight for reduced handling weight



SPECIFICATION	UNITS	HPH15K
RAM WEIGHT	kg	12,000
	lbs	26,450
IMPACT VELOCITY	m/s	5
	ft/s	16.4
MAXIMUM PILE ENERGY	kNm	150
	ft.lbs	110,600
MINIMUM PILE ENERGY	kNm	25
	ft.lbs	18,434
BLOW RATE	bpm	80-150
MAXIMUM - PILE MOMENTUM	kg.m/s	60,000
	lbs.ft/s	433,780
WEIGHT- Ø914 CONFIGURATION	kg	34,000 (possible to split into 3 parts)
	lbs	74,936

# OFFSHORE PILING HPH15K POWERPACK

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The Dawson power pack is based on a Caterpillar C 18 engine and complies with tier III emission requirements. The powerpack is designed for marine conditions and has been hot metal sprayed prior to an offshore spec. powder coating. For the drive of the hammer, 2 Parker PV plus 270cc variable displacement pumps are fitted to the engine. The pumps are electronically volume controlled by an on board PLC system. This means the flow to

the hammer can be varied between 0 and 850L. by pushbuttons. 2 hydraulically driven fan coolers ensure sufficient cooling capacity. (30% of power rating). The cooler fans are temperature controlled, to conserve energy and prevent unnecessary noise. A built in offline filtration system is used to condition the hydraulic oil to 2 microns and remove an amount of water contamination.

ALL METAL PARTS ARE HOT METAL  
SPRAYED AND FINISHED TO OFFSHORE  
SPEC. POWDER COATING.



CATERPILLAR C-18 ATAAC® -  
6 CYLINDER DIESEL MOTOR  
WITH TURBOCHARGER AND  
INTER-COOLING.  
EPA & CARB TIER 111

PARKER PV+270cc  
HYDRAULIC PUMP (x2)

SPECIFICATION	UNITS	DHP470
DIESEL ENGINE POWER	kW	470
	HP	630
	rpm	2100
HYDRAULIC SYSTEM PRESSURE	bar	280
	psi	4060
OIL FLOW RATE	l/min	850
	(US) gal/min	225
SIZE - LENGTH x WIDTH x HEIGHT	m	5.25 x 2.2 x 2.4
	ins	206.7 x 86.6 x 94.5
WEIGHT	kg	12,000
	lbs	26,460
FUEL CAPACITY	litres	1000
	(US) gallons	264
FUEL CONSUMPTION @ 60%	l/hr	78.6
	(US) gal/hr	20.8