



**DAWSON**  
CONSTRUCTION PLANT LTD

# HPH4500 PILING HAMMER

**INNOVATIVE  
PILING  
EQUIPMENT**

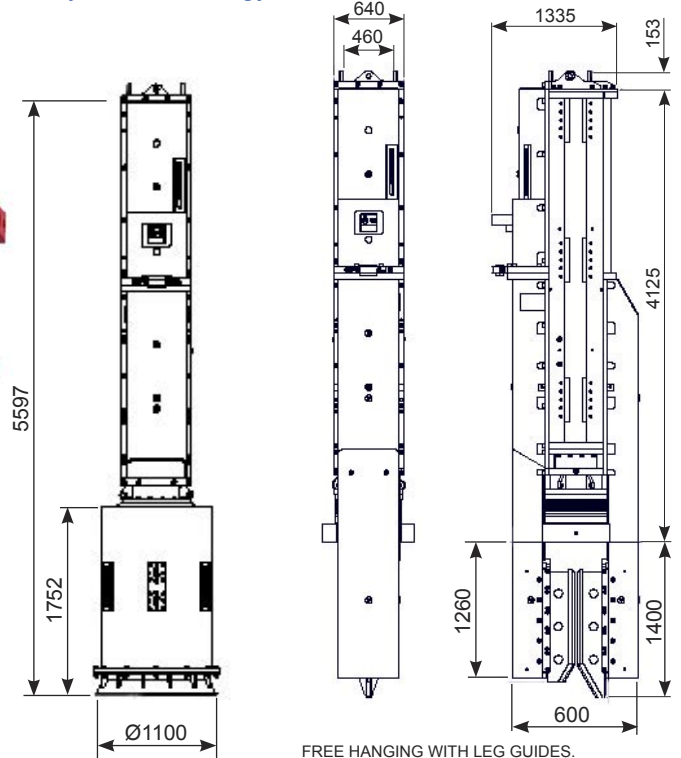
DAWSON CONSTRUCTION PLANT  
CHESNEY WOLD,  
BLEAK HALL,  
MILTON KEYNES,  
MK6 1NE  
ENGLAND

TEL. +44 1908 240300  
FAX. +44 1908 240222  
EMAIL. DAWSON@DCPUK.COM

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



UNIVERSAL GUIDE  
SLEEVE SUITS UP TO  
Ø914mm (36") PILES

FREE HANGING WITH LEG GUIDES.  
THE BASIC HAMMER CAN BE FITTED WITH LEG  
GUIDES THAT HAVE FLEXIBLE LEG INSERTS AS  
SHOWN. DIFFERENT LEG INSERT CAN BE USED  
TO ADAPT TO DIFFERENT SHEET PILE TYPES.  
THE HAMMER READILY FITS PAIRS OF MOST 'U'  
OR 'Z' SHEET PILES WITH DIFFERENT INSERTS.  
INSERTS CAN ALSO BE SUPPLIED TO PERMIT THE  
HAMMER TO DRIVE H-PILES.

SPECIFICATION	UNITS	HPH4500
RAM WEIGHT	kg	3,500
	lbs	7,840
IMPACT VELOCITY	m/s	5.05
	ft/s	16.60
MAXIMUM ENERGY TRANSFERED TO PILE	KNm	45.00
	ft.lbs	32,560
MINIMUM ENERGY TRANSFERED TO PILE	KNm	18.00
	ft.lbs	13,280
BLOW RATE	bpm	80-120
LENGTH - LEAD MOUNTED	mm	4,650
	ins	183
MINIMUM WIDTH OF BODY	mm	640
	ins	25.5
WEIGHT - LEAD MOUNTED	kg	8,500
	lbs	19,000
WEIGHT - FREE HANGING WITH SHEET PILE LEG GUIDES	kg	10,750
	lbs	23,700
WEIGHT - FREE HANGING WITH GUIDE SLEEVE	kg	10,000
	lbs	22,040



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# HPH4500 POWERPACK

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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.



JOHN DEERE 4045HF475 - 4 CYLINDER  
4.5L DIESEL ENGINE  
(TIER 2 EMISSION CERTIFIED)

SPECIFICATION	UNITS	DAWSON
DIESEL ENGINE POWER	kW	120
	rpm	2100
HYDRAULIC SYSTEM PRESSURE	bar	250
	psi	3625
OIL FLOW RATE	l/min	230
SIZE - LENGTH x WIDTH x HEIGHT	m	3.3 x 1.34 x 2.26
	ins	130 x 53 x 89
WEIGHT	kg	3200
	lbs	7,040
FUEL CAPACITY	litres	300
FUEL CONSUMPTION @ 60%	litres / hour	19.9

