



**DAWSON**  
CONSTRUCTION PLANT LTD

**NEW**

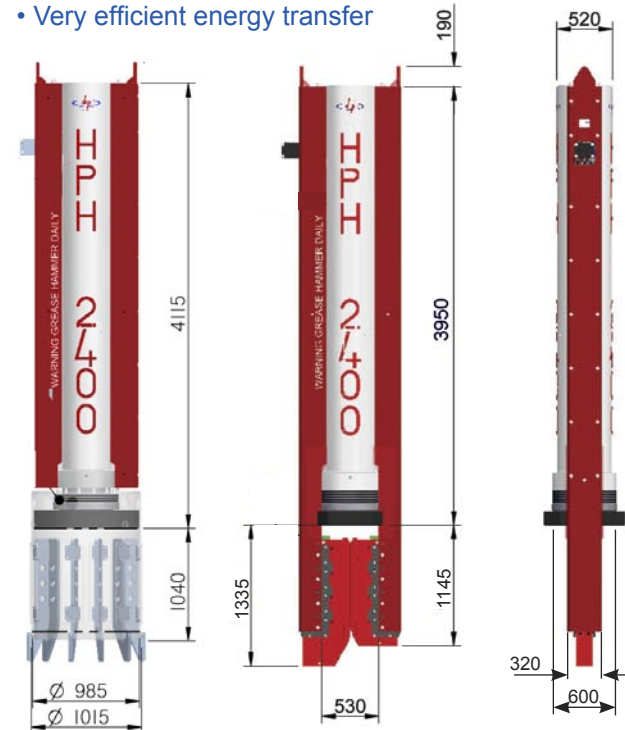
THE NEXT STEP IN DIGITAL CONTROL

electrical switching

# HPH2400E PILING HAMMER

## NEW DIGITALLY CONTROLLED DROP WEIGHT

- Fast hammer blow rate for rapid pile penetration
- Full energy monitoring on screen
- Full history of hammer performance
- Highly reliable and robust electrical switching
- Intelligent stroke control
- Very few serviceable parts, with on screen fault diagnostics
- Easily maintained by Diesel / Mechanical fitter
- Cushion block irons out peak stresses
- Very efficient energy transfer



UNIVERSAL GUIDE SLEEVE SUITS TUBES UP TO Ø914 mm (36") PILES

WITH LEG GUIDES THE HAMMER READILY FITS PAIRS OF MOST 'U', 'Z' & 'H' SHEET PILES WITH DIFFERENT INSERTS.

## HPH2400 HAMMER

SPECIFICATION	UNITS	HPH2400
RAM WEIGHT	kg	1,900
	lbs	4,189
IMPACT VELOCITY	m/s	4.98
	ft/s	16.30
MAXIMUM ENERGY TRANSFERRED TO PILE	KNm	24.00
	ft lb	17,360
MINIMUM ENERGY TRANSFERRED TO PILE	KNm	10.0
	ft lb	7,380
BLOW RATE	bpm	80-120
LENGTH - LEAD MOUNTED	mm	4,430
	in	175
MINIMUM WIDTH OF BODY	mm	520
	in	20.5
WEIGHT - LEAD MOUNTED	kg	6,000
	lbs	13,227
WEIGHT - WITH SHEET PILE LEG GUIDES + SPREADER PLATE	kg	7,000
	lbs	15,400
WEIGHT - FREE HANGING WITH Ø914 GUIDE SLEEVE	kg	7,600
	lbs	16,720



## POWERPACK

SPECIFICATION	UNITS	DAWSON
DIESEL ENGINE POWER	kW	93
	rpm	2100
HYDRAULIC SYSTEM PRESSURE	bar	230
	psi	3335
OIL FLOW RATE	L/min	150
SIZE - LENGTH x WIDTH x HEIGHT	m	2.85 x 1.34 x 2.26
	in	112 x 53 x 89
WEIGHT	kg	3000
	lbs	6,600
FUEL CAPACITY	litres	275
FUEL CONSUMPTION @ 60%	litres / hour	15.2

# HPH2400E PILING HAMMER

WORLDWIDE  
DEALER  
NETWORK

GLOBAL  
SUPPLY,  
LOCAL  
SUPPORT.

Dawson Construction Plant has developed an industry leading, robust and simple, electronic control system that constantly monitors the drop weight position. This constant monitoring allows the switching timing on the main hydraulic spool to be trended to continually optimise hammer performance throughout varying piling conditions, such as:

- 1 – Hard driving with pile recoiling
- 2 – Soft driving with a running pile
- 3 – Cold hydraulic oil on start up
- 4 – Raking piles



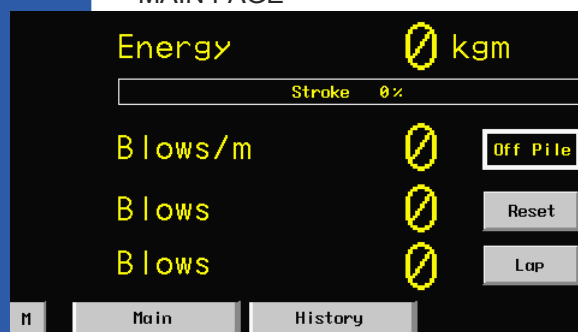
DATA CAN BE RECORDED TO A LAPTOP



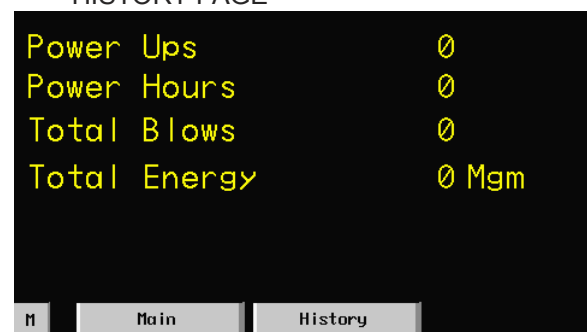
INTERFACE SCREEN MOUNTED ON POWER PACK

With constant drop weight position monitoring, the velocity of the drop weight is also known, therefore energy output can be accurately measured and is displayed to the operator on the powerpack interface screen. This information can be recorded direct to a laptop via a Dawson software interface, and can be saved in standard spreadsheet formats, giving a blow by blow account of every pile driven and a day to day productivity record.

## MAIN PAGE



## HISTORY PAGE



TYPICAL SCREEN SHOTS

The main screen displays bar graphs showing hammer stroke & hydraulic oil temperature.

An Off Pile indicator confirms when the hammer is securely seated on the pile, and allows piling to commence.

There are numerical read outs showing blows per minute, energy per blow and total blows. The lower reading shows blows in LAP cycle. (Measuring blows per increment). The units can be changed from imperial to metric.

The history screen provides information on the total number of start ups / total hours / total blows and total energy through out the life of the hammer.

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