



DAWSON
CONSTRUCTION PLANT LTD

NEW

THE NEXT STEP IN DIGITAL CONTROL

electrical
switching

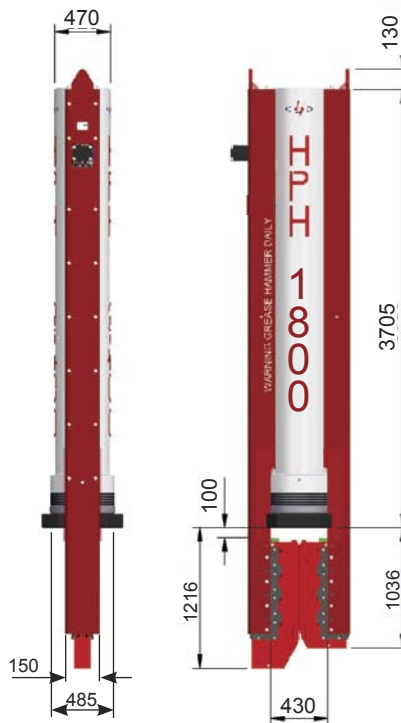
HPH1800E PILING HAMMER



DIGITALLY CONTROLLED DROP WEIGHT

NEW

- 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



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.

HPH1800 HAMMER

SPECIFICATION	UNITS	HPH1800
RAM WEIGHT	kg	1,500
	lbs	3,300
IMPACT VELOCITY	m/s	4.99
	ft/s	16.40
MAXIMUM ENERGY TRANSFERRED TO PILE	KNm	19.00
	ft lb	13,750
MINIMUM ENERGY TRANSFERRED TO PILE	KNm	9.8
	ft lb	7,269
BLOW RATE	bpm	80-120
LENGTH - LEAD MOUNTED	mm	3,930
	in	155
MINIMUM WIDTH OF BODY	mm	470
	in	18.5
WEIGHT - LEAD MOUNTED	kg	4,250
	lbs	9,350
WEIGHT - WITH SHEET PILE LEG GUIDES + SPREADER PLATE	kg	4,250
	lbs	9,350



POWERPACK

SPECIFICATION	UNITS	DAWSON
DIESEL ENGINE POWER	kW	93
	rpm	2100
HYDRAULIC SYSTEM PRESSURE	bar	230
	psi	3335
OIL FLOW RATE	L/min	105
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

HPH1800E PILING HAMMER

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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



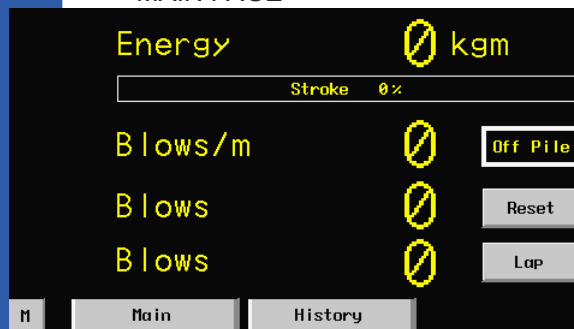
DATA CAN BE
RECORDED TO A
LAPTOP



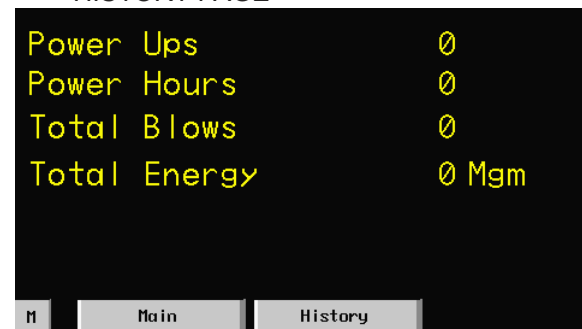
INTERFACE SCREEN MOUNTED ON POWER PACK

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.

WORLDWIDE
DEALER
NETWORK

GLOBAL
SUPPLY,
LOCAL
SUPPORT.