

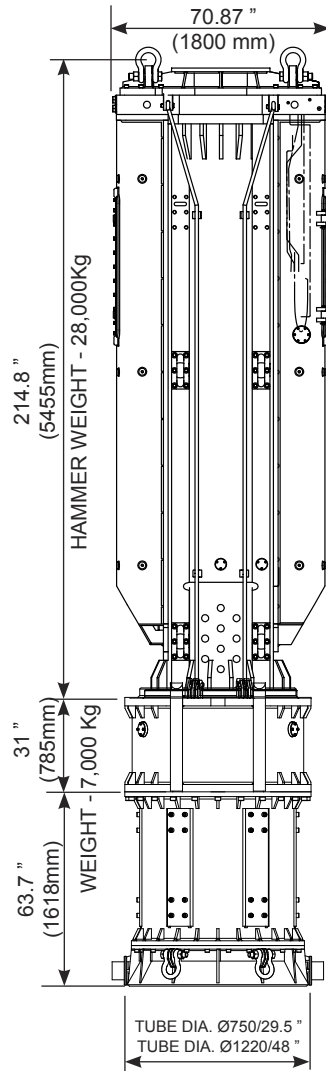


THE NEXT STEP IN DIGITAL CONTROL

DAWSON
CONSTRUCTION PLANT LTD

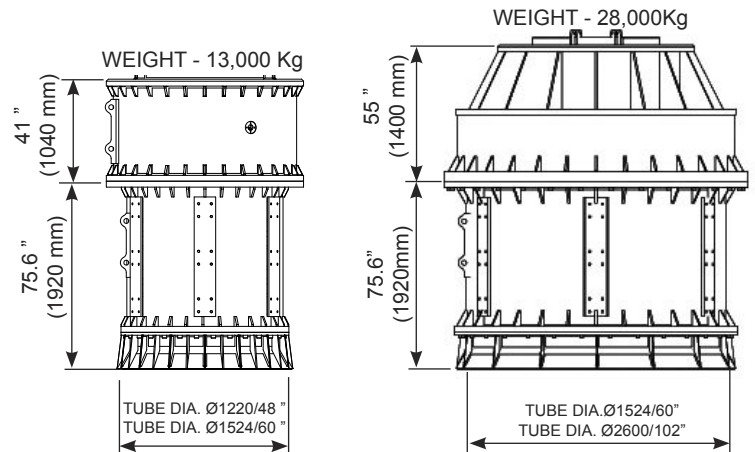
electrical switching

HPH15Ke 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
- Removable drop weight for reduced handling weight



15K HAMMER

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	80-120
MAXIMUM - PILE MOMENTUM	kg.m/s	60,000
	ft lb/s	433,780
WEIGHT- Ø1220 CONFIGURATION	kg	35,000 (possible to split into 3 parts)
	lbs	74,936

POWERPACK

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
	in	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/h	78.6
	(US) gal/h	20.8



HPH15Ke 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



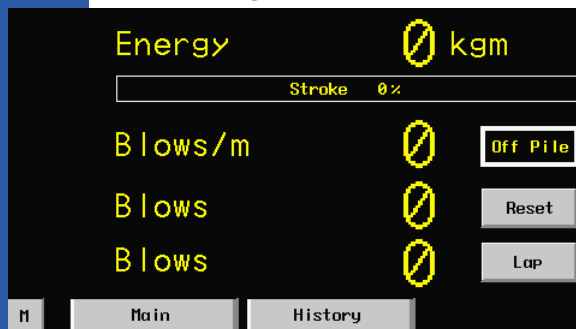
DATA CAN BE
RECORDED TO A
LAPTOP



INTERFACE SCREEN MOUNTED ON POWER PACK

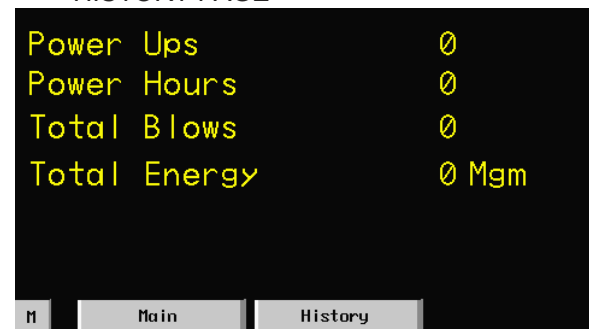
With constant drop weight position monitoring, the velocity of the drop weight is also known, therefore energy output can be accurately measured and is displayed to the operator on the powerpack interface screen. This information can be recorded direct to a laptop via a Dawson software interface, and 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



TYPICAL SCREEN SHOTS

HISTORY PAGE



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.

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