## HPH 5000

- 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

DAW

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## "the continued evolution of digitally controlled piling hammers"

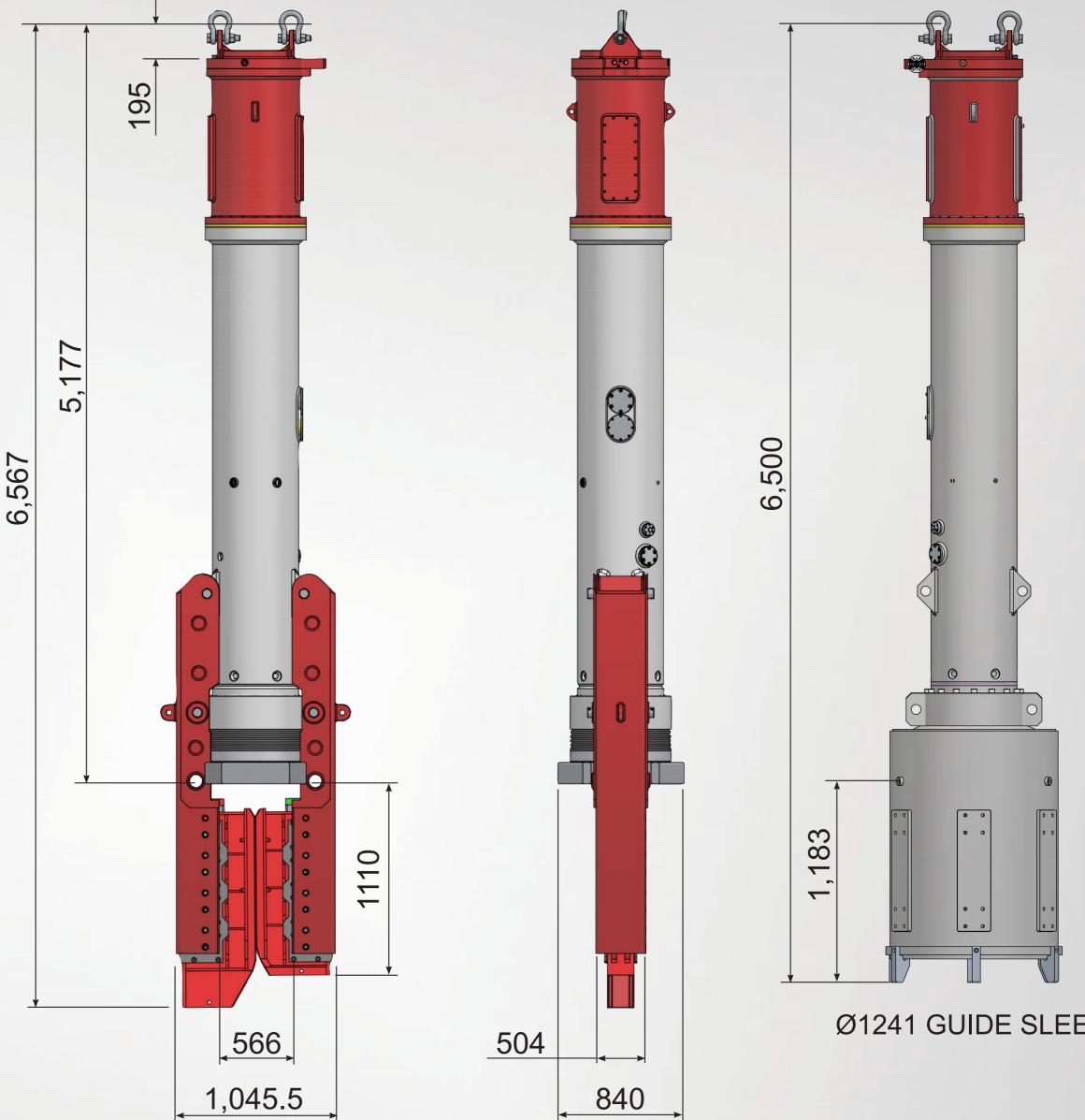
## hydraulic impact hammer

#### HPH5000 HAMMER

SPECIFICATION	UNITS	HPH5000
RAM WEIGHT	kg	4,068
	lbs	8968.5
IMPACT VELOCITY	m/s	5
	ft/s	16.36
MAXIMUM ENERGY TRANSFERED TO PILE	kNm	50.00
	ft lb	36,878
MINIMUM ENERGY TRANSFERED TO PILE	kNm	15.0
	ft lb	11,063
BLOW RATE	bpm	80-120
LENGTH - LEAD MOUNTED	mm	5,042
	in	198.5
MINIMUM WIDTH OF BODY	mm	635
	in	25
WEIGHT - WITH SHEET PILE LEG GUIDES + SPREADER PLATE	kg	11,000
	lbs	24,250



SPECIFICATION	UNITS	DAWSON
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DIESEL	kW	120
ENGINE POWER	rpm	2,100
HYDRAULIC SYSTEM PRESSURE	bar	250
	psi	3,625
OIL FLOW RATE	L/min	230
SIZE - LENGTH x WIDTH x HEIGHT	m	2.85 x 1.34 x 2.26
	in	112 x 53 x 89
WEIGHT	kg	3,200
	lbs	7,040
FUEL CAPACITY	litres	275
FUEL CONSUMPTION @ 60%	litres / hour	15.2

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

Ø1241 GUIDE SLEEVE



### digitally controlled drop weight

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



#### **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.



**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.

