



DAWSON
CONSTRUCTION PLANT LTD

PRODUCT SUMMARY

INNOVATIVE PILING EQUIPMENT



Est. 1974-2014



HYDRAULIC PILING HAMMERS

Principal Advantages

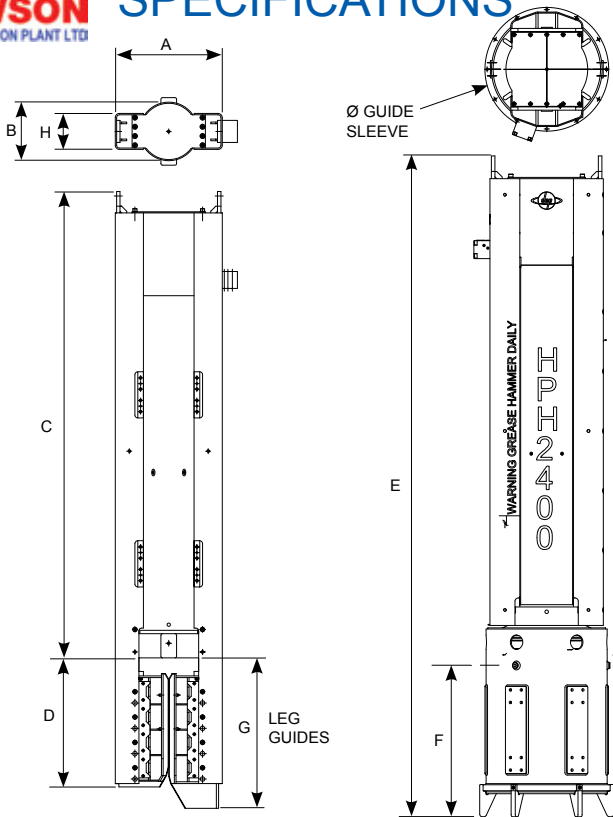
- Unrivalled production rates - rapid blow rates save time and money, shortening project duration
- Rapid blow rates - “chisel” through compacted sands, out-driving heavier, slower hammers
- High energy transfer efficiency to the pile - smaller hammer out performs older more cumbersome equipment
- Variable energy output - stepless adjustment between limits at the touch of a button, with single or automatic blow regulation, these hammers offer complete control of the driving process
- Compact, enclosed design - simplifies application and handling whilst protecting vital components
- Simple integration with alternative power sources - can be operated from hydraulic excavators, hydraulic crawler cranes or non-Dawson hydraulic power packs
- Versatility - all models are designed to be truly multi-tasking, driving a huge range of pile types either free-hanging or leader mounted
- All Dawson hammers can operate under water in excess of 100m in depth
- Hammers can be crane suspended & Rig mounted





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TECHNICAL SPECIFICATIONS



Weights & dims for guidance only & may vary according to application. Hammers can be leader mounted & configured for most pile types. Please contact Dawsons for further information.

SPECIFICATION		UNITS	Hammer Model						
			HPH1200E	HPH1800E	HPH2400E	HPH4500	HPH6500	HPH10000	HPH15000E
HAMMER									
RAM WEIGHT	kg	1,040	1,500	1,900	3,500	4,650	8,000	12,000	
	lbs	2,300	3,300	4,189	7,840	10,250	17,650	26,450	
IMPACT VELOCITY	m/s	4.76	4.99	4.98	5.05	5.25	5.00	5.00	
	ft/s	15.60	16.40	16.30	16.60	17.20	16.40	16.40	
MAXIMUM IMPACT ENERGY	kgm	1,200	1,900	2,400	4,500	6,500	10,000	15,000	
	ft lb	8,680	13,750	17,360	32,560	47,000	73,750	110,600	
MAXIMUM MOMENTUM	kg.m/s	4,950	7,485	9,462	17,675	24,413	40,000	60,000	
	lbs ft/s	35,880	54,120	68,281	130,144	176,300	289,460	433,780	
BLOW RATE	bpm	80-120	80-120	80-120	80-120	80-120	60-120	80-120	
WEIGHT - WITH SHEET PILE LEGS + SPREADER PLATE	kg	3,000	4,250	7,000	10,750	14,900	-	-	
	lbs	6,600	9,350	15,400	23,700	32,780	-	-	
WEIGHT - WITH GUIDE SLEEVE	Ø914	kg	-	-	7,600	9,600	12,600	21,000	-
		lbs	-	-	16,720	21,120	27,720	46,300	-
	Ø1220	kg	-	-	-	-	13,900	22,300	37,000
		lbs	-	-	-	-	30,580	49,160	81,400
	Ø1450	kg	-	-	-	-	15,600	24,000	-
		lbs	-	-	-	-	34,320	52,900	-
	Ø1530	kg	-	-	-	-	-	-	39,500
		lbs	-	-	-	-	-	-	86,900
All dimensions in mm	A	700	800	950	1335	1050	1200	1800	
	B	Ø406	Ø470	Ø520	Ø640	Ø750	Ø850	1150	
	C	3762	3960	4240	4278	4927	-	-	
	D	950	1036	1145	1260	1458	-	-	
GUIDE SLEEVE TO SUIT MAX. TUBE DIA. (mm)	Ø914 Ø1220 Ø1450 Ø1530	E	-	-	5690	5597	6310	6800	-
		-	-	-	-	6371	6861	7055	
		-	-	-	-	6340	6800	-	
		-	-	-	-	-	-	8300	
	Ø914 Ø1220 Ø1450 Ø1530	F	-	-	1040	1307	1373	1373	-
		-	-	-	-	-	1375	1375	1150
		-	-	-	-	-	1310	1310	-
		-	-	-	-	-	-	-	2340
LEG GUIDES	G	1130	1216	1335	1400	1600	-	-	
	H	280	280	320	550	620	-	700	
POWER PACK									
DIESEL ENGINE POWER	kW	93	93	93	120	168	224	470	
HYDRAULIC SYSTEM PRESSURE	bar	240	230	230	250	270	270	280	
OIL FLOW RATE	L/min	75	105	150	230	270	390	850	
WEIGHT	kg	2000	3000	3000	3200	4800	7800	12000	