

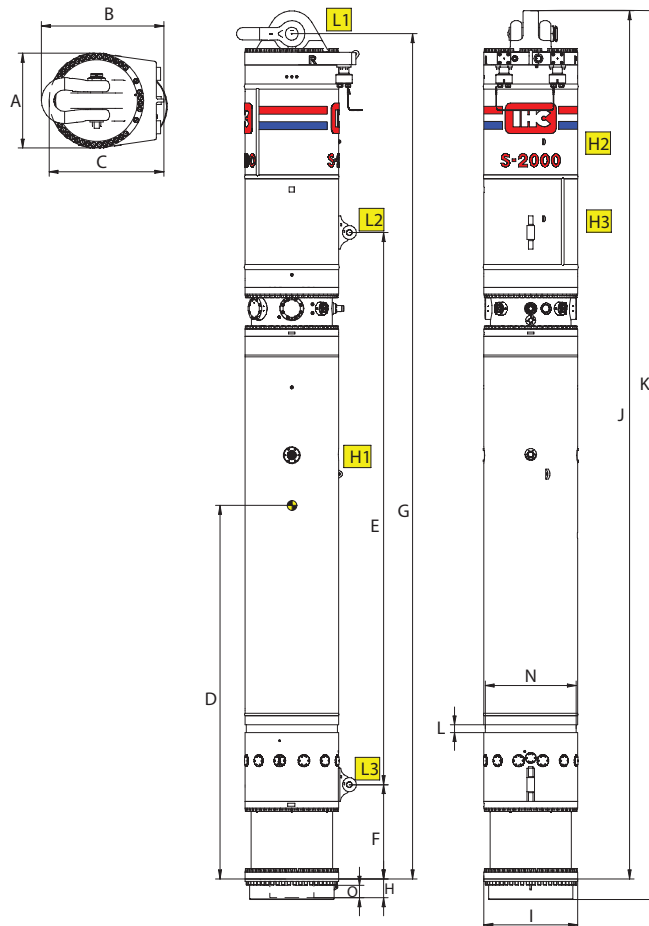
HYDROHAMMER® S-2000

Application:

Hydrohammer® for steel piles

Piling free hanging in air and underwater

data sheet no. 1.1.10023
 revision 10
 date August, 2018
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POS. DESCRIPTION	LENGTH [MM]	POS. DESCRIPTION	LENGTH [MM]
A Transport width	1860	I Outer diameter	1830
B Transport height (with shackle)	2395	J Length	16835
C Transport height (without shackle)	2245	K Transport length (incl. cover)	17370
D Centre of gravity	7180	L Height ballast collar	150
E Position lifting eyes	10790	N Diameter ballast collar	1780
F Position lifting eyes	1710	O Fall out ram weight pin	245
G Length under crane hook	16385		
H Required length in sleeve	500		

POS. LIFTING EYES	WORKING LOAD LIMIT [TONS]	HOLE DIAM. Ø [MM]	THICKNESS [MM]
L1	1000	250	300
L2/L3	150	110	150
H1	17	43	45
H2/H3	6,5	26	30

Use Green Pin® Heavy duty (type P- 6036) for Top Shackle



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OPERATING DATA

Max. net energy	2000 kJ
Min. net energy	220 kJ
Blow rate	24 - 35 Blows/min
At max. energy and recommended oil flow	

WEIGHT

Ram	100 tons
Hammer (incl. ram, in air)	225 tons
Hammer (incl. ram, in salt water) (Only if fully submerged)	185 tons

HYDRAULIC DATA

Operating pressure	300 - 320 bar
Max. pressure	350 bar
Recommended oil flow	2800 - 4400 l/min
Power pack, back pressure valve setting	20 - 25 bar
Power pack, back pressure valve	activated

GAS FILLING PRESSURE

Vertical pile driving only! Values will vary for:
- pile driving under different angles with the vertical,
- pile driving underwater depending on water depth.

Supply accumulator (Nitrogen)	150 - 170 bar
Return accumulator (Nitrogen):	
- with activated back pressure valve*	10 - 15 bar
- without back pressure valve	Not applicable
Cap (Nitrogen or Air)	30 - 36 bar

SAFETY SETTING

Cap	60 bar
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HOSE CONNECTIONS

Required hose set when using 4400 l/min:	
Oil supply 4x2½" hose (3xP)	M82x2 male
Oil return 4x2½" hose (4xR)	M82x2 male
Air to cap (CA)	M42x2 male

Required hose set when using 2800 l/min:	
Oil supply 4x2½" hose (2xP)	M82x2 male
Oil return 4x2½" hose (3xR)	M82x2 male
Air to cap (CA)	M42x2 male

Alternative hose set; Using a reducing ring and a male stud coupling

Oil supply 4x2" hose (4xP)	M68x2 male
Oil return 4x2" hose (4xR)	M68x2 male

* NOTE

IHC IQIP recommends to use a back pressure in the return line of the hydraulic system circuit while pile driving.
In case a power pack does not have a back pressure valve installed, it is recommended to install one.



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