

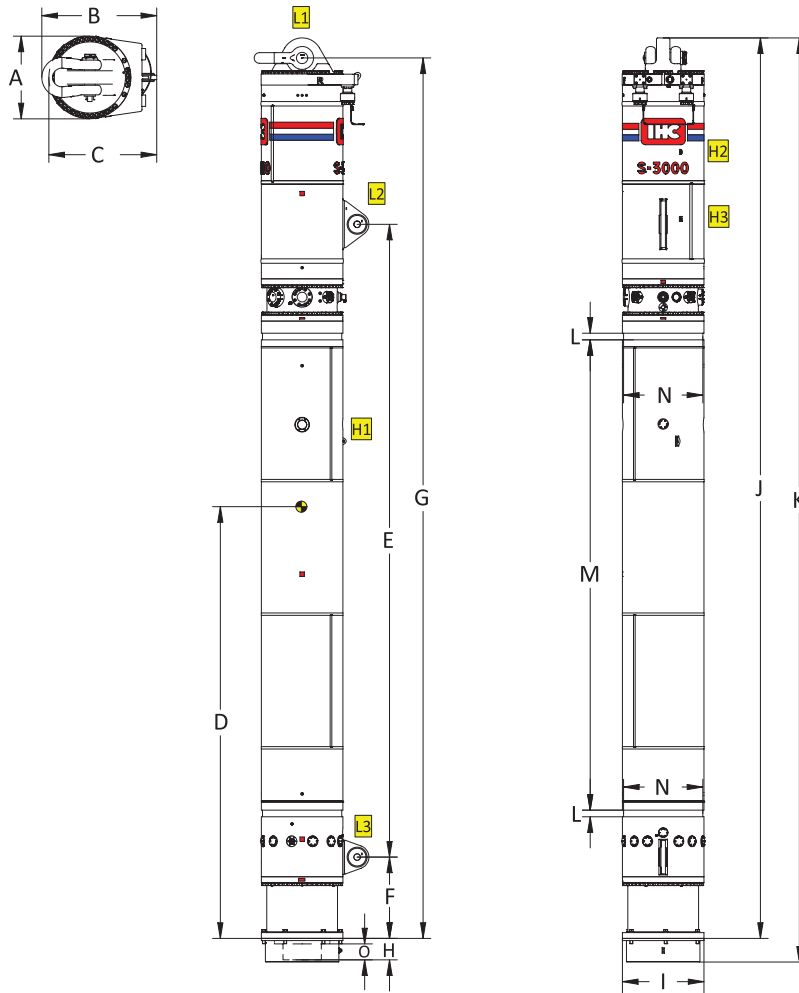
# HYDROHAMMER® S-3000

Application:

**Hydrohammer® for steel piles**

**Piling free hanging in air and underwater**

data sheet no. 1.1.10122  
 revision 2  
 date October, 2018  
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 code no. 85 45 00 01



POS. DESCRIPTION	LENGTH [MM]	POS. DESCRIPTION	LENGTH [MM]
A Transport width	1860	I Outer diameter	1830
B Transport height (with shackle)	2580	J Length	20220
C Transport height (without shackle)	2420	K Transport length (incl. cover)	20755
D Centre of gravity	8770	L Height ballast collar	150
E Position lifting eyes	14210	M Position ballast cover	10560
F Position lifting eyes	1825	N Diameter ballast collar	1780
G Length under crane hook	19770	O Fall out ram weight pin	245
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	250	145	185
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	3000 kJ
Min. net energy	382 kJ
Blow rate	28 - 35 Blows/min
At max. energy and recommended oil flow	

## WEIGHT

Ram	150 tons
Hammer (incl. ram, in air)	290 tons
Hammer (incl. ram, in salt water) (Only if fully submerged)	235 tons

## HYDRAULIC DATA

Operating pressure	330 - 350 bar
Max. pressure	350 bar
Recommended oil flow	4000 - 5100 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)	170 - 190 bar
Return accumulator (Nitrogen):	
- with activated back pressure valve*	10 - 15 bar
- without back pressure valve	Not applicable
Cap (Nitrogen or Air)	36 - 42 bar

## SAFETY SETTING

Cap	60 bar
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## HOSE CONNECTIONS

Oil supply 4x2½" hose (4xP)	M82x2 male
Oil return 4x2½" hose (4xR)	M82x2 male
Air to cap (CA)	M42x2 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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