

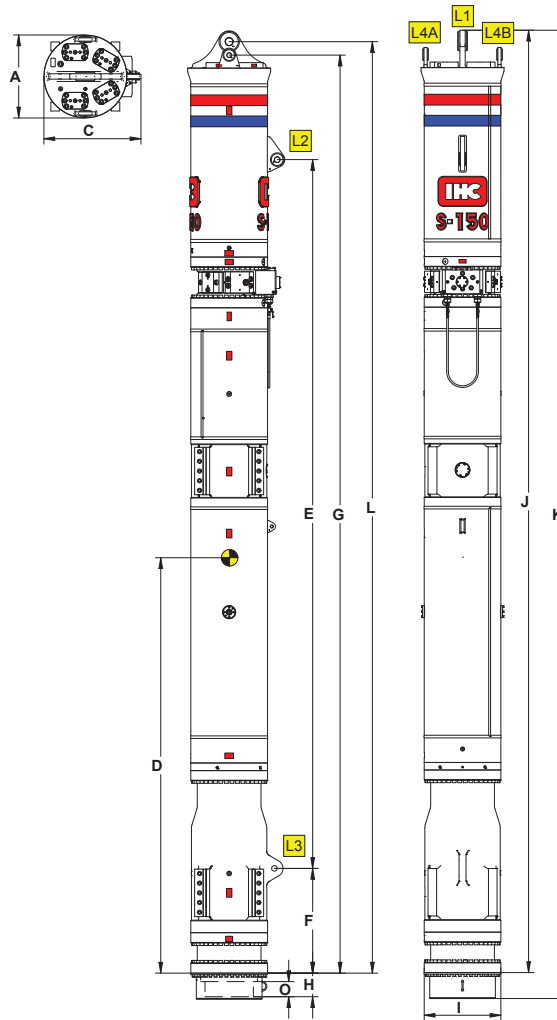
Hydrohammer® S-150

Application:

Hydrohammer® for piling in air or underwater, leader guided or free on the pile.

The lifting eyes comply with the requirements for use in drilling rigs.

data sheet no.	1.1.10027
revision	3
date	June, 2016
page	1/2
code no.	85 19 00 02



Pos.	Description	Length [mm]	Pos.	Description	Length [mm]
A	Transport width	770	G	Length under crane hook	8520
C	Transport height (with shackle)	901	H	Required length in sleeve	215
D	Centre of gravity	3855	I	Outer diameter	712
E	Position lifting eyes	6578	J	Length	8745
F	Position lifting eyes	972	K	Transport length (incl. cover)	8986
			O	Fall out ram weight pin	150
			L	Length under cranehook (main lifting eye)	8645

Pos. Lifting eyes	Hole diam. Ø [mm]	Thickness [mm]	Allowed max. [tons] force of lifting	Allowed range [degrees] angle of lifting	
L1*	73	90	48	0 - 90**	For upend and turn down of the gross weight only!
L2	52	60	12,5	34 - 35	For horizontal movements (combination of L2 with L3) of the gross weight
L3	52	65	17	16 - 29	
L4A	43	50	21	0	For vertical movements (combination of L4A with L4B) of the gross weight in drilling rigs***
L4B	43	50	21	0	

* NOTE Only use a shackle with Green Pin®, type G-4163

** NOTE The values of the angle are given towards the vertical.

***NOTE Do not use this combination of lifting eyes for upend and turn down of the hammer set.
Do the lift on this combination of lifting eyes with parallel cables, Use a cross beam.



Hydrohammer® S-150

data sheet no.	1.1.10027
revision	3
date	June, 2016
page	2/2
code no.	85 19 00 02

Operating data

Max. net energy	150 kJ
Min. net energy	15 kJ
Blow rate	44 Blows/min
At max. energy and recommended oil flow	

Weight

Gross weight	23 tons ****
Tare (incl. ram, in air)	16,5 tons
Tare (incl. ram, in salt water, only if fully submerged)	13,0 tons
Payload (36"-sleeve and two storage cradles)	6,5 tons
Ram	7,5 tons

Hydraulic data

Operating pressure	280 bar
Max. pressure	350 bar
Recommended oil flow	460 l/min
Power pack, back pressure valve setting	18 - 22 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*	13 - 17 bar
- without back pressure valve	4 - 5 bar
Cap (Nitrogen or Air)	12 - 16 bar

Safety setting

Cap	40 bar
-----	--------

Hose connections

Oil supply 1½" hose (P)	M52x2 male
Oil return 1½" hose (R)	M52x2 male
Air to cap (CA)	R ¾" male

**** Note the maximum gross weight is different for each project
(Combination of hammer set) and shall be determined by IHC Hydrohammer B.V.

* 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.