HYDROHAMMER® S-500

Application:
Hydrohammer® for steel piles
Piling free hanging in air and underwater

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POS. DESCRIPTION | LENGTH [MM] | POS. DESCRIPTION | LENGTH [MM]
A  Transport width | 1360 | I  Outer diameter | 1220
B  Transport height (with shackle) | 1564 | J  Length | 10200
C  Transport height (without shackle) | 1440 | K  Transport length (incl. cover) | 10400
D  Centre of gravity | 4710 | L  Height ballast collar | 160
E  Position lifting eyes | 8100 | M  Position ballast cover | 4970
F  Position lifting eyes | 895 | N  Diameter ballast collar | 1260
G  Length under crane hook | 10000 | O  Fall out ram weight pin | 200
H  Required length in sleeve | 260

POS. LIFTING EYES | WORKING LOAD LIMIT [TONS] | HOLE DIAM. Ø [MM] | THICKNESS [MM]
L1 | 250 | 145 | 170
L2/L3 | 55 | 75 | 90
H1 | 12 | 40 | 40
H2 | 2 | 18 | 20

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

Max. net energy 500 kJ
Min. net energy 20 kJ
Blow rate 45 Blows/min
At max. energy and recommended oil flow

WEIGHT

Ram 25 tons
Hammer (incl. ram, in air) 55 tons
Hammer (incl. ram, in salt water) 45 tons
(Only if fully submerged)

HYDRAULIC DATA

Operating pressure 250 - 300 bar
Max. pressure 350 bar
Max. oil flow 1400 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) 130 - 160 bar
Return accumulator (Nitrogen):
- with activated back pressure valve* 13 - 17 bar
- without back pressure valve 3 - 5 bar
Cap (Nitrogen or Air) 15 - 22 bar

SAFETY SETTING

Cap 60 bar

HOSE CONNECTIONS

Oil supply 2” hose P (red) M68x2 male
Oil return 2” hose R (blue) M68x2 male
Nitrogen (Air) cap R ¾” 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.