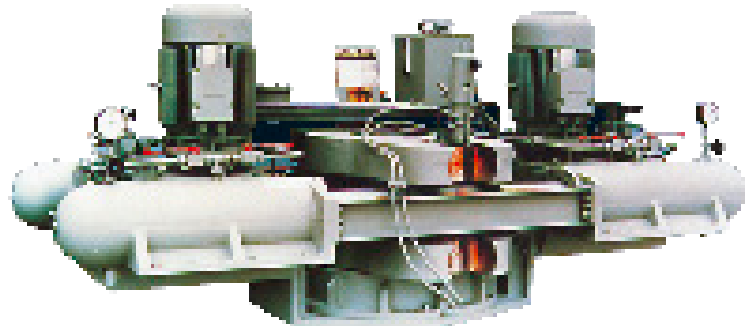
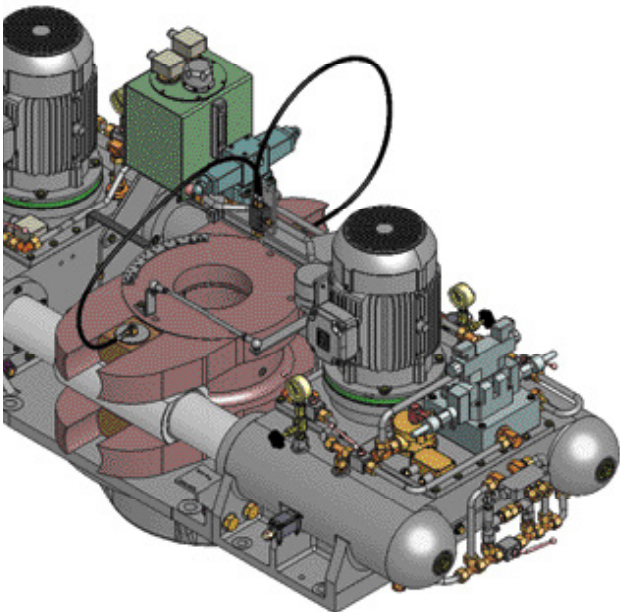


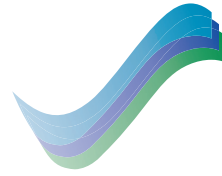
## Ram type POSEIDON



### STRUCTURAL FEATURES:

- Electro-hydraulic, 4-cylinder, 2-ram type
- Compact design, pump units placed between the cylinders, complete piping
- Incorporated rudder carrier with seawater resistant rudder stock sealing
- Suitable for normal semi-spade rudder blades up to max. 2 x 45° rudder angle
- Pumps with constant delivery, variable displacement pumps for POSEIDON 1300
- Electronic synchronising for twin-rudder installation
- One-piece tiller for keyless fit of rudder stock
- Interconnection of the two actuators for normal operation
- In an emergency, each actuator can maintain the manoeuvrability of the ship
- Automatic isolation system HATLAPA SAFEMATIC, if required
- All major brands of autopilot and rudder control systems can be connected

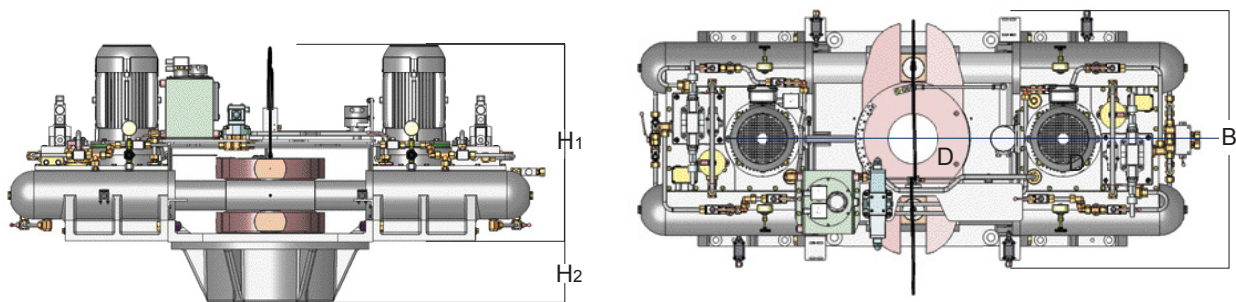




## Ram type POSEIDON

On request HATLAPA can deliver

- Motor starters, alarm, automatic isolation, rudder control, rudder angle indicator systems, etc.
- Special designs are available on request



Type			150	250	400	500	700	900	1300
Working torque* at 35°	[kNm]		161	252	413	525	730	900	1280
Max rudder stock diameter*	[mm]		250	300	340	380	420	460	500
Length	L [mm]	± 35°	2175	2560	2800	2900	3260	3470	3980
		± 45°	2430	2920	3250	3620	4080	4260	-
Width	B [mm]	± 35°	1020	1110	1300	1400	1500	1580	2280
		± 45°	1050	1110	1350	1500	1650	1715	-
Height	H1 [mm]	± 35°	820	810	1050	1000	1100	1165	1500
		± 45°	780	1010	1050	1150	1200	1280	-
Depth	H2 [mm]	± 35°	225	300	310	350	400	430	385
		± 45°	255	300	310	345	360	360	-
El. Motor output at 50/60 Hz **	[kW]		2 x 9.5	2 x 14	2 x 23	2 x 29	2 x 37	2 x 46	2 x 61
Oil charge	liter [l]	± 35°	110	200	300	340	370	460	250
		± 45°	160	240	350	380	480	620	-
Weight	[kg]	± 35°	2200	3450	4800	5050	7000	9150	12700
		± 45°	2300	3750	5280	7000	9000	11200	-
Admissible axial/radial load on rudder carrier	[kN]	± 35°	435/690	600/990	750/1150	1700/570	1800/620	2015/720	2500/620
		± 45°	435/690	600/990	750/1150	1400/1370	1780/1540	2180/1750	-

\* at working pressure

\*\* acc. to IEC 92-204: duty S 6-25%. Torques at 35° rudder angle. Reduced torques at 20° to approx. 82%, increased torques at 45° to approx. 134% of the above values.