Steering gear
HATLAPA  Rotary vane TRITON

Structural features
- Electro-hydraulic driven
- Integrated rudder carrier (axial/ radial)
- Integrated mechanical stoppers
- Conical hydraulic shrinkfit connection to rudder stock
- 2x 45° rudder angle (2x 35° on demand)
- Working torque 130 up to 1100 kNm
- Pump unit with fixed (Triton 130-450) or variable (up Triton 450) displacement
- Working pressure max. 100 bar
- Installation on flexible synthetic material (Hatlapa supply)
- Flexible installation reduced edge loading on the integrated rudder carrier
- Force transfer to the foundation via stopper, no reamer bolts necessary

On request we can deliver
- Rudder controls
- Motor starters
- Alarm
- Automatic switch over
- Rudder angle indicators systems
- etc.

Special design
- Available on request
**Features**

- Pump is switched on (bridge panel, starter cabinet)
- As soon as the e-motor is running, the isolation valve is switched in open position
- According to the control signal the hydraulic oil will be delivered to the three chambers (red)
- The rotor is turning and the oil of the opposite chambers will be delivered back to the pump (blue, close-loop)