

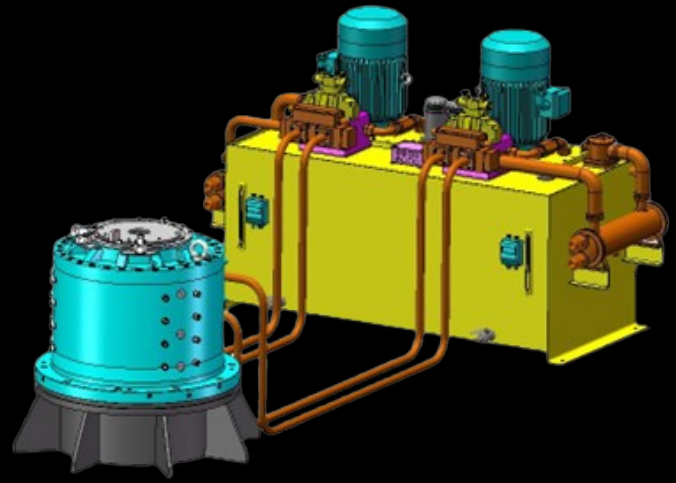


### **GENERAL DESIGN SPECIFICATION FOR LINEAR OR ROTARY STEERING SOLUTIONS:**

- Open or closed loop hydraulic steering system.
- Redundant pump-motor groups capable delivering millions of in-lbs. of torque at the ship's rudder.
- Maximum angle of more than 70deg offers the nimble maneuverability.
- Connected to the shipboard rudder roll stabilization platform this system assists in minimizing unwanted vessel motion.
- We can provide commercial, grade A and B shock and vibration approved units.
- Certifications under ABS, DNV, BV & GL

## ROTARY VANE STEERING SYSTEM

- Working torque: 1M+ ft-bl.
- Pump capacity: 300+ GPM
- Max Pressure: 1000+ PSI
- Electric Motor: Sized as needed.
- Max rudder angle: +/- 35 degrees or as specified.
- Rudder Hardover to Hardover time: 14 to 6s
- Max oil temperature: Less than 180F
- Total oil capacity: 400+ gallons



## LINEAR TYPE STEERING

- Working Torque, Angles, Speeds: As Specified
- Mechanical or Twin Independent
- Turn-Key System: Hydraulic Rams, Tiller, HPU and Controls
- Full-Follow Up and Non-Follow Up Control
- Interface to Autopilot, DP Systems

