

# MARINE CRANES

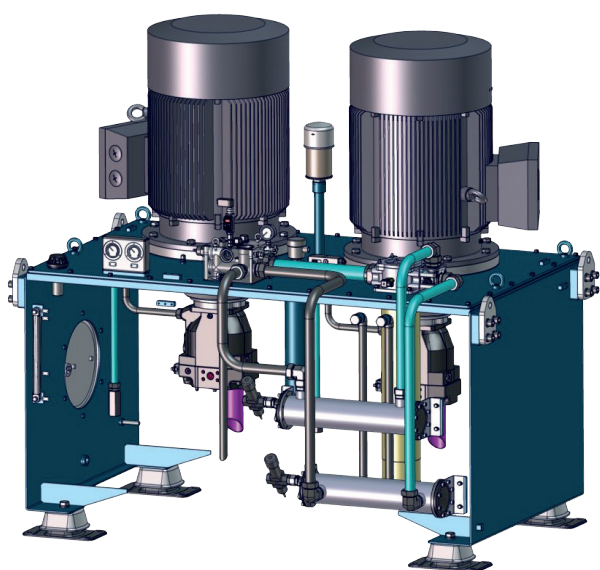


## Applications

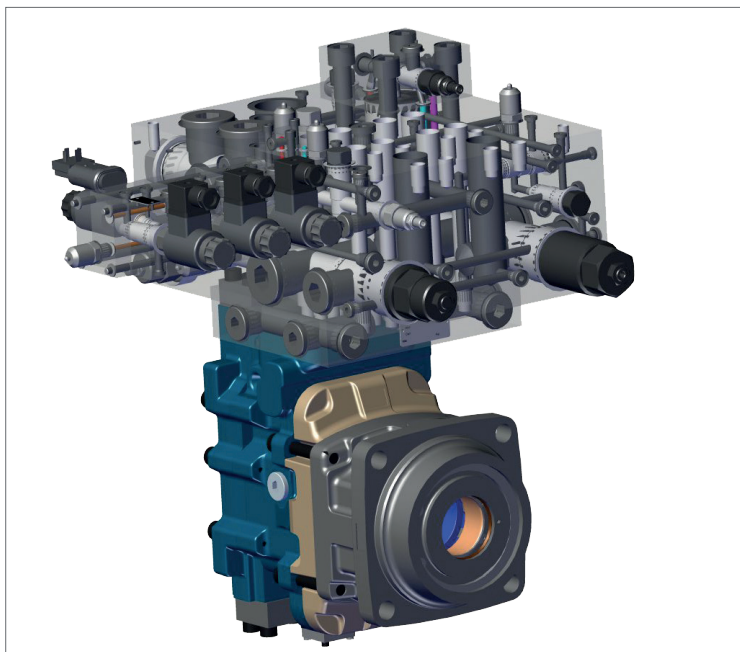
- Winch Control System (MOPS/AOPS, Constant Tension, AHC)
- Slewing System
- Emergency Lowering
- Control System Cylinder
- Boom Control System

## Services

- Manifold, HPU (Hydraulic Power Unit) and Integrated System full engineering
- Fluid dynamics simulation
- Structural calculation
- Deep analysis and check of every single system parameter with specific and official report release
- Final operational test of the whole system
- World Wide commissioning with high level expertise technicians
- Rigid and flexible piping and on-site full assistance
- 40 years-experience in the hydraulic field and a very passionate team of engineers and technicians who work every day close to our customers



## Key Components



- Aisi 316 valves
- Aisi 316 accumulators
- Proportional valves IECEx, ATEX, EAC
- Ermeto® DIN fittings
- Proportional Load Sensing Valves up to 2000 l/min
- Counterbalance Valves
- Manifold flanged directly onto motors

## Expertise

<b>Power:</b>	up to 450 kW [600 hp]
<b>Flow rate:</b>	up to 2.000 l/min [530 gpm]
<b>Pressure:</b>	up to 420 bar [6000 psi]
<b>Temperature:</b>	-40 °C +60 °C [-40 °F +140 °F]
<b>Certifications:</b>	according to: DNV GL, ABS, BV, RINA, LR, CCS, KR, RMRS, ATEX, SIL requirements
<b>Process Control:</b>	WPS, PQR, NDT, mechanical stress and wearing tests
<b>Engineering international standards:</b>	IEC61508, IEC61511, ASME, EU Directives rules and specifications
<b>Painting:</b>	C5M cycle, based on customer specifications
<b>Surface treatments:</b>	phosphating, electrolytic protections, nitrocarburizing, stainless steel surface finishing
<b>Materials:</b>	AISI 316L, 6MO, duplex, tungum