

OPTIMUS EPS 3000 SERIES

Inboard Yachts 30–50 Feet Range

APPLICATIONS

Electronic Power Steering (EPS) system suitable for vessels from approximately 30 ft to 50 ft* with single or dual rudders.



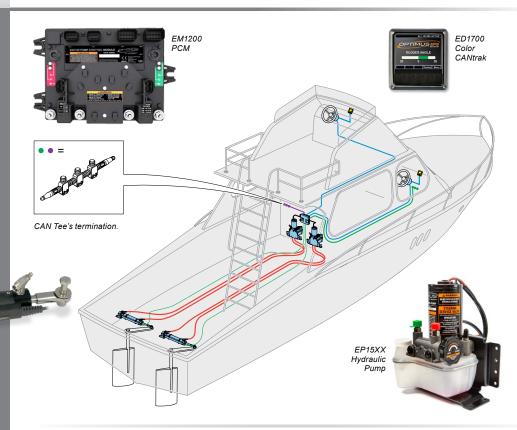
ring Cylind

Subject to submission of survey form and rudder load calculation.

Environmental

- Operating temperature: -18°C to +77°C [ISO 25197]
- Storage temperature: -40°C to +85°C [ISO 25197]
- Corrosion resistance: 300 hours salt spay [ASTM B117]
- Water ingress protection: IPX7 [IEC 60529]
- · Random vibration: 0.0284 g^2/Hz [ABYC P-27]
- · Resonant vibration: 4 G zeropeak, 20-2000 Hz [ABYC P-27]
- · Mechanical shock: 50 G, 11 m-sec half-sine shape [ISO 25197]
- Ignition protection: SAEJ-1171
- Meets EN60945 electromagnetic compatibility requirement

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FEATURES

- · Up to two helms stations
- · Automatic battery management with sensing, warnings & best battery selection
- · On demand hydraulic steering pump minimizing power consumption
- No oil at the helm
- Rugged electronics for 12 or 24 VDC applications
- · Color dash display showing rudder command and rudder position graphic
- · Displays system health
- · Display provides system setup interface
- · Communicates faults and any special handling instructions to the operator
- · No requirement for tie-bars depending on rudder loads.
- · Simple software updating via USB port
- Programmable number of turns lock to lock with speed
- · Auto-adjusting steering end stops and resistance with speed

- · Dual redundant position sensing on all moving components
- Helm offers both 3/4" taper or 1" straight shaft options
- Utilizes fault tolerant CAN network
- · Full autopilot CANbus connectivity and integration. No additional pumps or sensors required
- Adjustable max rudder hard over angle with speed range 25° to 40° Center to hard over
- Rudder toe in or out up to 5° with speed
- Position proportional rudder gain for faster steering response near neutral rudder position
- · RPM input: NMEA 2000, J1939 or analog pulse compatible
- · Pump features an Integrated service/ bypass valve allows a limp home mode
- Meets or exceeds ABYC, CE, ISO and SAE electrical and environmental requirements

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OPTIMUS EPS

3000 SERIES

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MOUNTING **CONFIGURATIONS &** SYSTEM SCHEMATIC

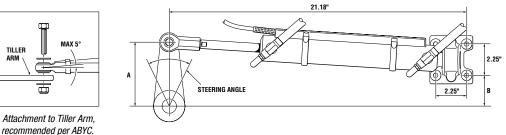
While using the table below be sure that your steering cylinder is at mid-stroke as shown in the figure right to ensure the cylinder operates correctly.

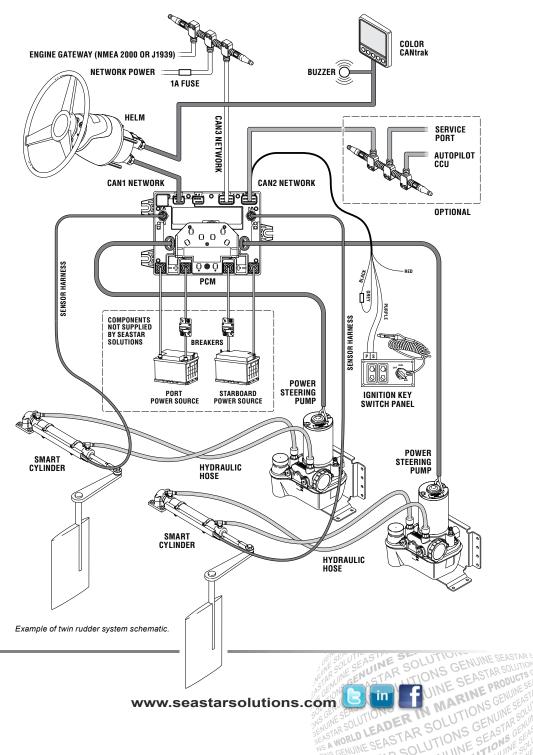
Model EC5380					
STEERING ANGLES					
50°		60°			
A	В	Α	В		
8.33"	6.43"	7.04"	4.98"		
11,004 in-lbs*		8,887 in-lbs*			

STEERING ANGLES				
70°		80°		
A	В	Α	В	
6.14"	3.91"	5.48"	3.07"	
7,328 in-lbs*		6,115 in-lbs*		

Example: two cylinders at 60° steering angle will give a combined total of 17,774 in-lbs of torque.

MAX 5° TILLER ΔR





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