

OCTOPUS

HYDRAULIC & MECHANICAL AUTOPILOT DRIVES
FOR POWER AND SAILBOATS

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PRECISION PRODUCTS FOR POWER AND SAIL BOATS

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PRECISION

PRODUCTS is a world leader in the design and manufacture of automatic pilot drive units.

Our products are backed by twenty five years of continuous experience in the design of marine steering systems. Since their introduction in 1984 our products have been used on thousands of commercial vessels and yachts using virtually every make of autopilot.

Electronic manufactures worldwide recommend and use these products as the muscle to move rudders on all kinds of vessels from runabouts to tugs.

This catalogue shows our standard product range. Our company is committed to providing the highest standard of service to customers and we are always willing to discuss your special requirements.

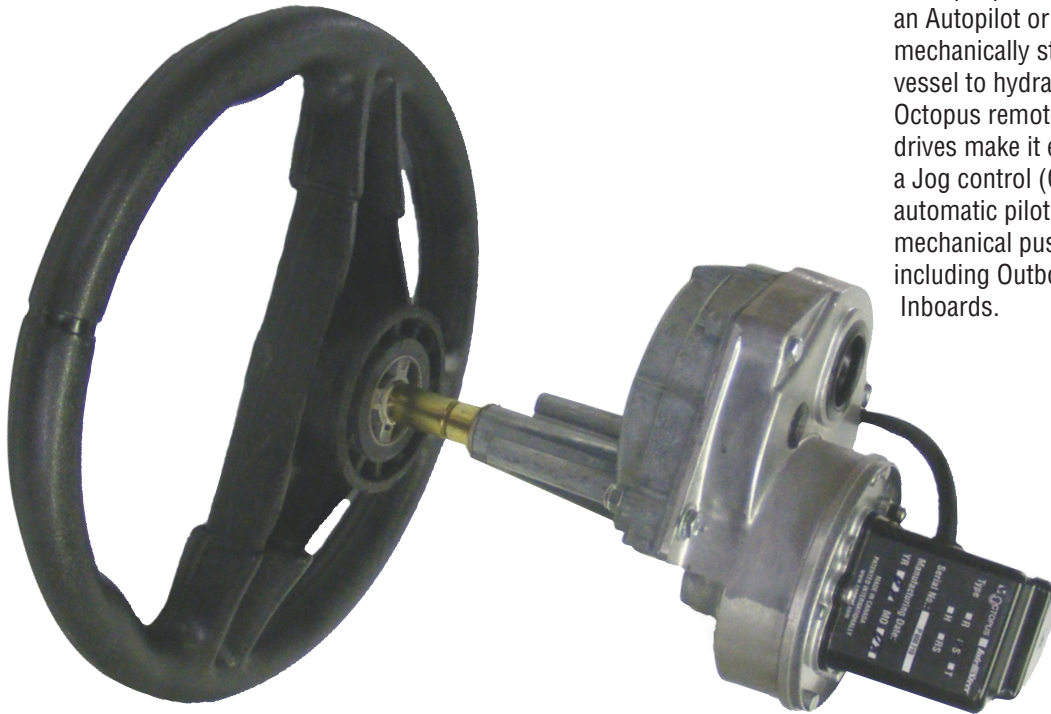
WHY OCTOPUS

- ➔ Years of experience as a market leader adopting on-the-edge technology
- ➔ Customized products, compatible with all major brands of Autopilots
- ➔ Committed to continuous process improvement
- ➔ Integrated units, versatile and easy to install
- ➔ Efficient & powerful motors
 - MDR's deliver up 300 lbs thrust
 - Minimal power draw:
MDR's average less than 5 amps, and 12v reversing pumps average 7 amps
- ➔ Fixed and remote jog steering controllers enable convenient use as a stand alone jog steering system
- ➔ Complete product solutions for all boat types (pleasure/commercial up to 120')



CNC MACHINE CENTER

MECHANICAL DRIVE UNITS



Most people believe the only solution to install an Autopilot or Jog Steering System on a mechanically steered boat is to convert the vessel to hydraulic steering. This is not true, Octopus remote rotary Mechanical autopilot drives make it easy and economical to install a Jog control (Octopus Intellisteer) or an automatic pilot on powerboats steered with mechanical push pull cable steering systems including Outboards, Sterndrives (I/O's) and Inboards.

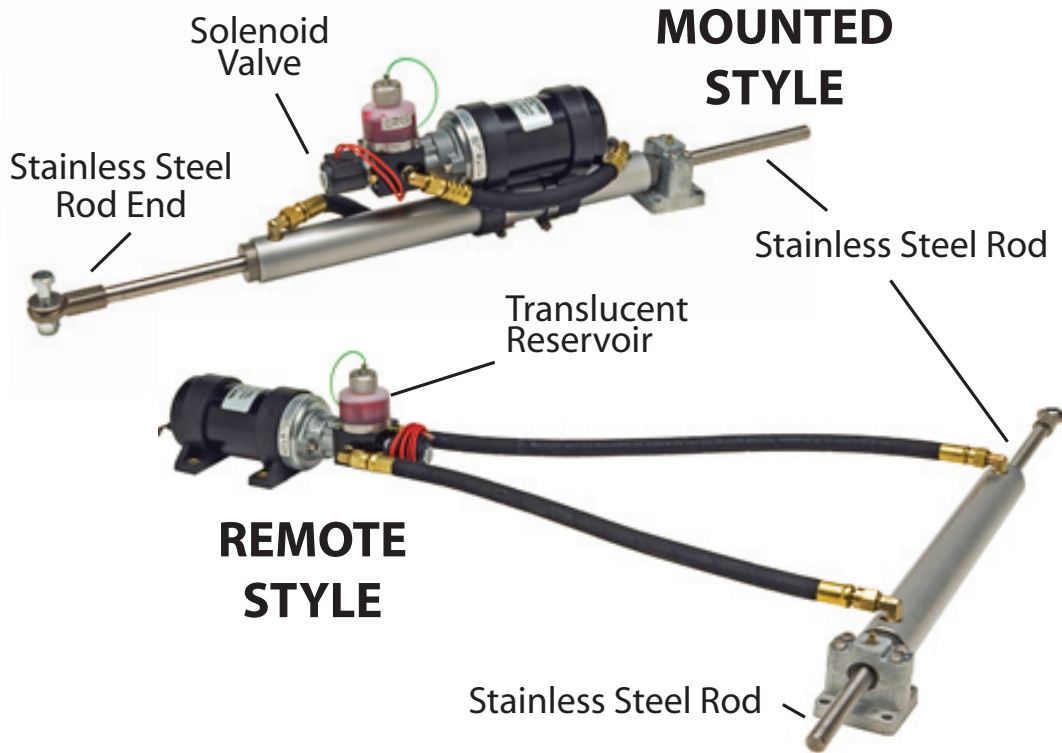
The Octopus mechanical autopilot drives come in four types:

- TYPE S** – Standard Straight shaft for mounting behind the dash
This drive can be mounted in 2 ways, either at 90 degrees to the dashboard or at 20 degrees to the dashboard. Spacer Kits are also available to reduce the space required behind the dashboard.
- TYPE T** – Straight shaft tilt version for mounting behind the dash with a steering wheel tilt mechanism
The Tilt drive allows the steering wheel angle to be adjusted in relationship to the dash. The drive requires Tilt Mechanism used from your current steering or purchased separately.
- TYPE R** – Stand Alone Remote version for mounting as a separate drive system with its own cable and mounting kit
The Remote drive unit can be installed in any convenient location; it requires the addition of a second steering cable and connection kit. There are connection kits for Mercruiser or Volvo Penta stern drive engines, Outboard engines and a universal kit for inboard engines.
- TYPE RS** - Unique RS Sailboat Drive designed for simple mounting to mid-range yachts with restricted installation space
The Octopus Remote Sailboat Drive System makes it easy and economical to install an automatic pilot on light displacement Sail Boats steered with a mechanical system from a wheel or tiller. The system is designed for the modern mid range sail boat which has restricted space to mount a standard Linear drive. The drive is very responsive and has little feedback resistance when in 'Stand by' mode making it very suitable for racing yachts. It is recommended for Yachts up to 38Ft (11.5m) with a maximum displacement of 15400 lbs / 7000 kg.

INTEGRATED RUDDER FEEDBACK UNITS

Rudder Feedback Units come in two types. The universal RFB unit (OC15SUK06) has small switches making it generic to all major Autopilot manufacturers(except Simrad.) The standard RFB unit's (i.e. OC15SUK06B for Raymarine, OC15SUK06H for Furuno, etc.) are dedicated to a particular manufacturer (see our website for a complete list.)

HYDRAULIC LINEAR ACTUATORS



An Octopus Hydraulic Linear Actuator is a simple, effective way to drive the rudder on a boat equipped with a mechanical steering system. When the autopilot is not in use the cylinder runs freely along with the rudder. When the automatic pilot is in use a solenoid valve on the actuator closes and locks the cylinder. Steering signals from the pilot are now fed to the D.C. motor, which drives the pump to move the cylinder back and forth. De-energized, the solenoid valve immediately disconnects the automatic pilot from the rudder. The actuator has a small translucent oil reservoir, making it easy to check fluid levels. These actuators have only five moving parts. Mechanical simplicity gives our product reliability and ease of service when compared to complicated gear and screw actuators, making our units a favorite for offshore mariners. These actuators are shipped from our factory completely filled with oil and require no additional plumbing.

MODEL NUMBER	STROKE MM(IN)	THRUST Kg(Lb)	STROKE TIME/SEC	DIMENSION MM(IN)			VESSEL APPLICATION	LADEN WEIGHT Lb
				A	B	C		
1012LAM7	178 (7)	400 (882)	8	150(5.9)	500(19.68)	162(6.38)	Up to 45ft	22,000
1212LAM12	305 (12)	400 (882)	14	253(9.96)	690(27.1)	288(11.34)	Up to 60ft	33,000
1012LAR7	178 (7)	400 (882)	8	150(5.9)	500(19.68)	162(6.38)	Up to 45 ft	22,000
1212LAR12	305 (12)	400 (882)	14	253(9.96)	690(27.1)	288(11.34)	Up to 60 ft	33,000
2012LAR12	305 (12)	600 (1322)	16	253(9.96)	730(28.74)	260 (10.24)	Over 60 ft	44,000

