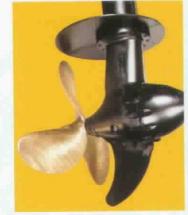# 50 – 175 HP Range – Self-Contained Azimuth Propulsion Systems

50 – 175 HP Hydromaster Units provide a completely self-contained high thrust propulsion package for immediate vessel installation. The heavy duty Hydromaster transmission and matched propeller is connected via a combined clutch and forward/reverse gearbox to one of a wide range of available diesel engines. Simple installation, day service fuel tank and 360° steering of the propeller provides an uncomplicated, efficient method of economic vessel propulsion and total manoeuvrability. Controls are either mounted locally on the propulsion unit or remote from a wheel house console.

Simple Installation

The heavy duty, robust design allows the transmission to be self-supporting, eliminating the need for a hull mounted steady bracket. The Hydromaster unit is simply bolted to the vessel and is immediately ready for operation. NO need for an engine room, NO rudder required, just a robust propulsion package simplifying new vessel design and conversion of existing dumb craft. Most installations can be carried out on the water eliminating the expense of dry-docking.

Heavy Duty Lower Gearbox and Propeller Assembly

Protection Against Underwater Collisions

The self-supporting transmission is held by Sykes Marine's unique friction device. When the transmission hits an under water obstacle it automatically kicks backwards protecting both the transmission and propeller. Once the obstruction has been passed the thrust from the propeller drives the transmission back to its normal vertical position. The transmission leg can also be set and locked at any required angle.

Inspection and Maintenance

The unit is fitted with transmission power elevation with 100% mechanical backup. This is operable without the need to disconnect any drive shafts. Therefore, NO need to dock for inspection or general maintenance and propeller obstructions can be simply removed, even at sea.

NO DRY DOCKING – Crewman removing rope fouling the propeller after elevating the transmission