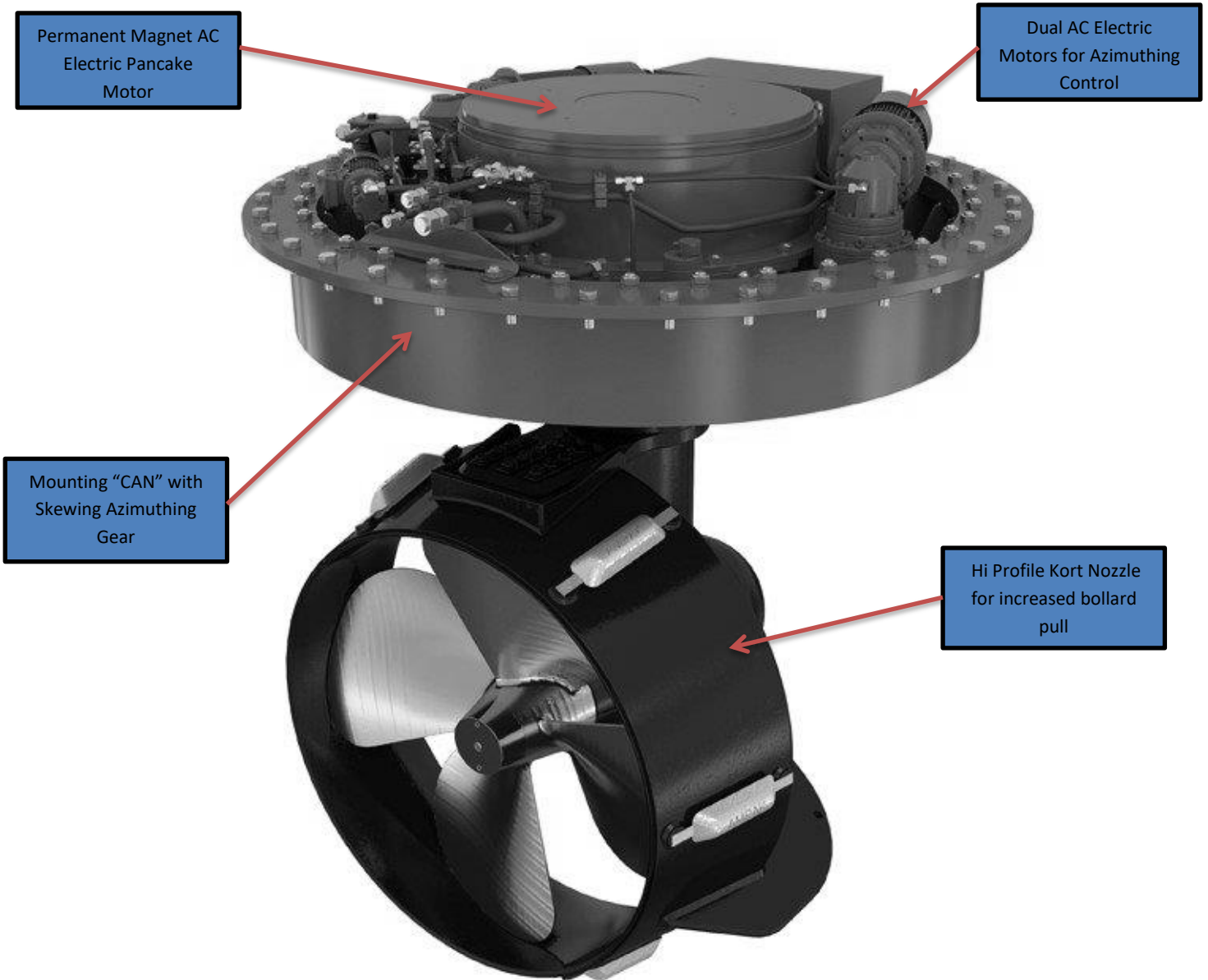


# PT. Marine Propulsion Solutions

The Azimuthing Hybrid Electric AC Permanent Magnet L-Drive designed for Tugboats

Rated from 175 up to 3,500Kw



Marine Propulsion Solutions Group has developed an integrated L-Drive... compact and efficient electric propulsion device with a permanent magnet (PM) motor design. The unit does not have geared transmission, meaning that it generates less noise, while the electronically-controlled drive and water-cooled PM also contribute to noise reduction, since there is no gear transmission in the tug. The Marine Propulsion unit is designed for workboats and is available with nozzle or without delivering power ranging from 175 kW to 3,500 kW. The PM motor is 40-60% more compact than an asynchronous motor.