

Marine Propulsion Shafting & Stern Gear

CAPABILITY SHEET - SHAFT LINE, STERN GEAR & ALIGNMENT - ENGINEERED TO ORDER

THE SYSTEM

WHAT	Propulsion shafting and stern gear is a ship's driveline - the machinery between the gearbox and the propeller that makes the vessel go.
OUR ROLE	Neometrix engineers the shaft line, machines the shafts and stern-tube assemblies, and installs, aligns and commissions it; the propeller and castings are bought-in.
STATUS	Engineered to order; sized to the shaft power, the arrangement and the classification rules. No specific delivered ship or class is claimed on this sheet.

THE DRIVELINE

SHAFT LINE	Line shafts and the tail shaft, machined from heavy forgings, joined by flanged or muff couplings and carried on plummer bearings on hull seatings.
THRUST BLOCK	The propeller pushes the ship, not itself - so its thrust travels up the shaft and the thrust block puts it into the hull structure. That is what drives the vessel.
STERN TUBE + SEALS	Where the shaft leaves the hull: stern-tube bearings, oil-lubricated white-metal or water-lubricated composite, with seals keeping the sea out and the oil in.

ALIGNMENT

WHY IT MATTERS	A hull is not rigid - it flexes between light and loaded, afloat and on the blocks. A shaft set dead straight would overload some bearings and unload others.
HOW IT IS SET	The seatings are bored and sighted and each bearing is set to a computed vertical offset, so the loads share correctly in the condition that matters.
PROVED ON TRIALS	Checked by bearing-load (jacking) and shaft deflection measurement, re-checked after launch when the hull is waterborne, and proved on trials to class.

DISTINCT & HONEST

VS STEERING + DECK	This drives the ship; the steering gear turns it by moving the rudder; deck machinery handles lines and anchors on deck. Three machines - we build all three.
OUR FRANCHISE	It is heavy machining, fabrication, assembly and precision alignment - our competence; the propeller, gearbox, thruster units and bearing shells are bought-in.
ENGAGEMENT	Send the shaft power, the arrangement and the rules to sales@neometrixgroup.com for a clause-by-clause compliance matrix in two working days.

DEFENCE PROGRAMMES DESK

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