



# KAMOME REACTION AND BULB RUDDER



**KAMOME REACTION AND BULB RUDDER** is an energy-saving rudder designed to improve propulsion efficiency by combining a reaction rudder—with its upper and lower leading edges curved to generate rudder thrust from the propeller's rotational flow—and a spindle-shaped rudder bulb designed to closely approach the propeller hub. By appropriately curving the upper and lower leading edges of the rudder blade, rudder resistance is reduced, and the spindle-shaped rudder bulb effectively suppresses hub vortices generated by the propeller to the utmost extent. This optimal combination forms the design concept of the **KAMOME REACTION AND BULB RUDDER**.



**KAMOME**  
PROPELLER

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