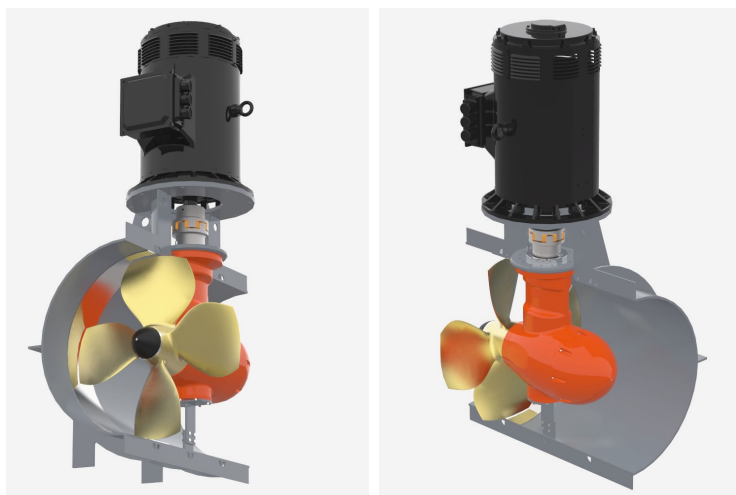


# TRANSVERSE THRUSTERS

IMPROVE DOCKING, SLOW SPEED MANOUEVERING,  
EMERGENCY STEERING, STATION KEEPING

## TRANSVERSE THRUSTER CHARACTERISTICS

- Robust and hydrodynamically streamlined gearbox with built-on propeller
- Rigid and solid tunnel section provided with stainless steel liner in the propeller's blade tip area, protecting the tunnel against electrolytic corrosion
- Gravity oil tank including hand pump are included in the scope of supply
- Flexible shaft coupling between the output shaft of the drive motor and the input shaft of the thruster unit, eliminating possible shaft misalignments and reducing vibration and noise
- Easy to install, maximum reliability and minimum downtime
- Optimum input-output ratio, resulting in maximum thrust efficiency and performance
- Rigid and solid construction reducing vibration and noise
- Optimum design of propeller keeps cavitation volume low which maximizes thrust efficiency and minimizes noise upon request AAA Propulsion can supply five-blade propeller thrusters for 'silent' operation.
- Suitable for the use of EAL



## LIGHT WEIGHT ALUMINIUM EXECUTION

Besides steel executions we offer up to 245kW fully aluminium thrusters (gearbox & tunnel).

## FIXED PITCH PROPELLER

Fixed Pitch Propellers are primarily used in combination with variable shaft/propeller speed and reversible rotational direction. Reversing the rotational direction of the drive motor determines the thrust direction in the case of a hydraulic or electric drive motor. When using a diesel engine, a reverse gearbox is used to change the rotational direction of the driveshaft and, thus, the thrust direction. The thrust force is determined by the rotational speed of the driveshaft.

## CONTROLLABLE PITCH PROPELLER

Our CPP thruster, the tunnel thruster with a Controllable Pitch Propeller. The drive motor runs at a constant speed and can be started with an autotrafo or softstarter. Thrust is being determined by axial rotating of the propeller blades. Rotating of the blades is done by an external hydraulic power pack.

TRANSVERSE THRUSTER							
Model	Type	Power rating (kW)		Input speed [rpm]	Maximum Prop. Ø [m]	Material gearbox	
		A (Cont.)	B (Aux.)			Cast Iron	Aluminium
ST190	FP	35	35	1500 / 1800	0,370	•	•
ST330	FP	90	105	1500 / 1800	0,580	•	•
ST410	FP	150	150	1500 / 1800	0,715	•	•
ST440	FP	225	245	1500 / 1800	0,805	•	•
ST535	FP	300	300	1500 / 1800	1,000	•	
ST624	FP	400	400	1200 / 1500 / 1800	1,200	•	
ST720	FP / CPP	500	585	1500 / 1800	1,400	•	
ST851	FP / CPP	750	850	1500 / 1800	1,55	•	
ST953	FP / CPP	910	1150	1200 / 1500 / 1800	1,8	•	
ST1030	FP / CPP	1255	1450	1000 / 1200 / 1500	2	•	

The above information is for guidance only. AAApulsion will be more than happy to assist you with the best solution.