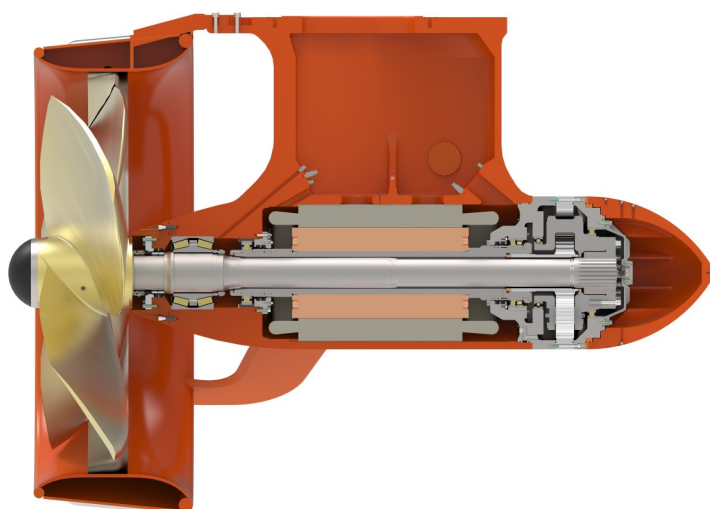


ELECTRIC PODDED PROPULSION

IMPROVE MANOEUVRABILITY, HIGHLY EFFICIENT
SUSTAINABLE, RELIABLE



A-POD CHARACTERISTICS

- High manoeuvrability
- Compact and efficient – integrated gears and higher rpm per-meant electric motor
- Cheaper and efficient - smaller motor size and lower prop rpm
- Excellent braking / speed reducing characteristics
- Easy installation - no alignment
- Push and pull configuration available
- Reduced/minimal maintenance – reduced generator running hours
- Lowered fuel consumption and reduction of emissions (CO₂, NO_x en SO_x)
- Robust electric drive integrated in pod – no 90° gears
- Improved steering characteristics – rotation 360° at full propulsion speed
- Low centre of gravity

UNIQUE CONCEPT

AAApulsion's pioneering A-POD is the first electric driven propulsion system with an integrated electric motor featuring a hollow drive shaft. The hollow shaft drives a planetary gearbox that, in turn, drives a propeller shaft that extends through the whole POD housing. Due to the reduction ratio of the planetary gearbox, the propeller will always run at its most economical speed, resulting in optimal performance in terms of efficiency and thrust.

UNIQUE FEATURES

The A-POD's all-integrated and compact design facilitates an easy installation. As an additional advantage, being mounted on the outside of the vessel means the A-POD propulsion system allows engine room size to be significantly reduced. Furthermore, it accommodates a versatile placement of the noisy generators, resulting in increased comfort for the crew. The A-POD is available in a range from 330kW up to 3300kW, either with open propeller or in a nozzle. A pushing or pulling propeller configuration can be preferred, depending on the design and the user/sailing profile of the vessel. In case the A-POD is employed in a pulling version, an additional fin will be mounted to further improve the steering characteristics.

UNIQUE BENEFITS

AAApulsion's A-POD counters the disadvantages of high price and low efficiency of the traditional POD-drives that generally use large oversized electric motors. The unique and compact design therefore offers many advantages, to both ship designers and shipyards, and to ship owners. Saving on labour costs, and offering flexibility whilst designing and building the vessel, ship owners and operators will reap the benefits

A-POD								
Model	Power rating (kW)		Avg. Prop. Ø [m]	Execution				
	PG	DD		Push / Pull	Deck mounted	CRP	Retract / Swing-Up	Tunnel
A-Pod220	85	x	0,6-0,7	•		•		•
A-Pod370	220	140	0,8-1,0	•	•	•		•
A-Pod450	500	200	0,9-1,3	•	•	•	•	•
A-Pod600	600	320	1,2-1,5	•			•	•
A-Pod670	1000	500	1,3-1,85	•			•	•
A-Pod770	1200	x	1,7-1,9	•				
A-Pod880	2420	x	1,8-3,0	•		•		
A-Pod1050	2500	x	2,4-3,0	•				
A-Pod1230	3100	x	2,8-3,3	•				

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