AzimuthThruster · Azimuth & tunnel thrusters



Marine propulsion product catalogue

Complete marine propulsion system solutions, from design to delivery

117	11–3,800 kW	CCS · DNV · BV · ABS	2026-11-11
standard models	standard power range	class certificates	edition

Sinooutput Group LTD.

Sinooutput Group LTD. was founded in March 2015 and is a well-known Chinese marine propulsion system integrator and thruster manufacturer. The group runs two brands, AzimuthThruster (China) and AzimuthThruster Europe (Netherlands), with production in Jiangsu, China and Rotterdam, the Netherlands. Facilities include a test tank and factory acceptance test equipment, machining equipment, assembly tooling and measuring equipment. The factory holds BV factory recognition, BKI type approval and CCS quality management certification, and products are certified by CCS, DNV GL, BV, ABS, IRS and BKI.

We design and manufacture tunnel thrusters, azimuth thrusters, deck-mounted azimuth thrusters and retractable azimuth thrusters, together with advanced thruster control systems, and can integrate them with dynamic positioning systems. For the renewable market we deliver battery-powered and hybrid-electric propulsion, unmanned vessel control systems and, on request, pod thrusters.

CCS	DNV	BV	ABS	LR	RINA	NK	IRS	BKI	RMRS	CRS

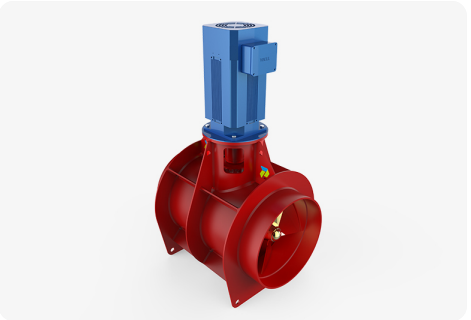


The European brand AzimuthThruster Europe started in the Netherlands in 2007. To meet growing customer demand, AzimuthThruster (Jiangsu) was founded in 2017 to carry out R&D, engineering and manufacturing with China's advanced manufacturing resources. The R&D centre is supported by two postdoctoral professor advisors and dozens of senior European and Chinese engineers.

Tunnel thrusters

A tunnel thruster moves the bow or stern of a vessel sideways, allowing agile manoeuvres in even the most restricted areas.

The propeller is driven by an electric motor, hydraulic motor or diesel engine through a right-angle gearbox. The drive is assembled inside a tunnel structure fitted at the bow or stern of the hull.



Contra-rotating propeller tunnel thruster

Model	Max. power kW	Propeller Ø mm	Tunnel ID mm	Wall mm	Length mm	Max. thrust kN
TLCT25	15	225	250	8	350	2.5
TLCT37	37	370	390	10	600	6
TLCT50	90	500	520	12	900	14.5
TLCT70	185	700	725	15	1,250	29.5
TLCT80	280	800	825	15	1,250	46
TLCT100	355	1000	1,030	20	1,400	56
TLCT120	500	1200	1,230	20	1,700	80
TLCT130	600	1300	1,335	20	1,800	96
TLCT145	650	1450	1,485	25	2,000	105

Fixed-pitch tunnel thruster

Model	Max. power kW	Propeller Ø mm	Tunnel ID mm	Wall mm	Length mm	Max. thrust kN
TLTT25	11	225	250	8	350	1.5
TLTT37	30	370	390	10	600	4.5
TLTT50	50	500	520	12	800	7.5
TLTT70	160	700	725	15	1,000	24
TLTT80	200	800	825	15	1,050	30
TLTT90	250	900	925	20	1,150	38
TLTT110	330	1100	1,130	20	1,400	46
TLTT130	470	1300	1,335	20	1,500	66
TLTT135	520	1350	1,388	20	1,600	75
TLTT150	560	1500	1,535	25	1,650	84
TLTT165	760	1650	1,685	25	1,750	106
TLTT185	1,020	1850	1,890	25	2,000	132
TLTT200	1,270	2000	2,040	30	2,250	165
TLTT225	1,500	2250	2,290	30	2,400	200
TLTT240	1,750	2400	2,450	30	2,600	245

Model	Max. power kW	Propeller Ø mm	Tunnel ID mm	Wall mm	Length mm	Max. thrust kN
TLTT265	2,000	2650	2,700	30	2,800	285
TLTT280	2,200	2800	2,485	30	2,850	320

Controllable-pitch tunnel thruster

Model	Max. power kW	Propeller Ø mm	Tunnel ID mm	Wall mm	Length mm	Max. thrust kN
TLTT110-CP	330	1100	1,130	20	1,400	46
TLTT130-CP	470	1300	1,335	20	1,500	66
TLTT150-CP	560	1500	1,535	25	1,650	84
TLTT165-CP	760	1650	1,685	25	1,750	106
TLTT185-CP	1,020	1850	1,890	25	2,000	132
TLTT200-CP	1,270	2000	2,040	30	2,250	165
TLTT225-CP	1,500	2250	2,290	30	2,500	200

Well-mounted azimuth thrusters



The well-mounted azimuth thruster propels floating marine applications such as inland waterway vessels, sea-going vessels, yachts, barges and jack-up platforms.

It delivers thrust in any direction through 360° to support manoeuvring, navigation and position keeping. It can serve as main propulsion or as part of a dynamic positioning (DP) system.

Well-mounted azimuth thruster

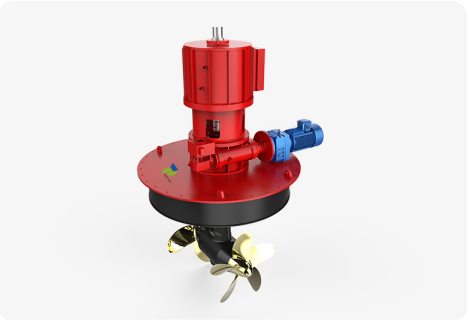
Model	Max. power kW	Propeller Ø mm
TLAT30WM	22	275-400
TLAT100WM	75	400-600
TLAT250WM	185	500-800
TLAT350WM	260	700-1150
TLAT400WM	300	900-1200
TLAT600WM	445	1000-1400
TLAT850WM	625	1200-1500
TLAT1000WM	735	1250-1600
TLAT1200WM	885	1300-1750
TLAT1400WM	1,030	1350-1850
TLAT1600WM	1,180	1500-1950
TLAT1800WM	1,325	1600-2100
TLAT2000WM	1,475	1750-2300
TLAT2400WM	1,765	1950-2500
TLAT2700WM	2,000	2000-2600
TLAT3000WM	2,200	2100-2700
TLAT3500WM	2,575	2200-2800
TLAT4000WM	2,950	2500-3200
TLAT5000WM	3,800	3000-4000

Retractable azimuth thruster

Model	Max. power kW	Propeller Ø mm
TLAT600RT	445	1000-1400
TLAT850RT	625	1200-1500
TLAT1000RT	735	1250-1600
TLAT1200RT	885	1300-1750
TLAT1400RT	1,030	1350-1850

Model	Max. power kW	Propeller Ø mm
TLAT1600RT	1,180	1500-1950
TLAT1800RT	1,325	1600-2100
TLAT2000RT	1,475	1750-2300
TLAT2400RT	1,765	1950-2500
TLAT2700RT	2,000	2000-2600

Contra-rotating azimuth thrusters



Contra-rotating propellers suit vessels that need higher speed, have a shallow draught or a limited propeller diameter. Typical applications are ro-ro and passenger ferries, new battery-electric vessels and unmanned vessels.

This azimuth thruster provides 360° thrust and can turn the hull in restricted water. As main propulsion it improves manoeuvrability while maintaining speed.

Well-mounted contra-rotating azimuth thruster

Model	Max. power kW	Propeller Ø mm
TLAT30WM-CR	22	275-400
TLAT100WM-CR	75	400-600
TLAT250WM-CR	185	500-800
TLAT350WM-CR	260	700-1150
TLAT400WM-CR	300	900-1200
TLAT600WM-CR	445	1000-1400
TLAT850WM-CR	625	1200-1500
TLAT1000WM-CR	735	1250-1600
TLAT1200WM-CR	885	1300-1750
TLAT1400WM-CR	1,030	1350-1850
TLAT1600WM-CR	1,180	1500-1950

Retractable contra-rotating azimuth thruster

Model	Max. power kW	Propeller Ø mm
TLAT600RT-CR	445	1000-1400
TLAT850RT-CR	625	1200-1500
TLAT1000RT-CR	735	1250-1600
TLAT1200RT-CR	885	1300-1750
TLAT1400RT-CR	1,030	1350-1850
TLAT1600RT-CR	1,180	1500-1950

Deck-mounted azimuth thrusters



The deck-mounted azimuth thruster combines an azimuth thruster with a diesel engine, electric motor or other drive into one compact unit that is easy to install and highly manoeuvrable.

The whole unit mounts directly on a deck foundation, optionally inside a container-style housing, with optional lifting and tilting. Mechanical or hydraulic height adjustment lets the vessel cope with large draught changes and keep full thrust. A contra-rotating version further reduces propeller diameter for complex waters and improves vessel economy.

Deck-mounted azimuth thruster

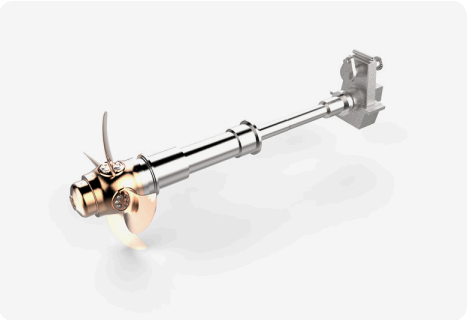
Model	Max. power kW	Propeller Ø mm
TLAT100DM	75	400-600
TLAT250DM	185	500-800
TLAT350DM	260	700-1150
TLAT400DM	300	900-1200
TLAT600DM	445	1000-1400
TLAT850DM	625	1200-1500
TLAT1000DM	735	1250-1600
TLAT1200DM	885	1300-1750
TLAT1400DM	1,030	1350-1850
TLAT1600DM	1,180	1500-1950
TLAT1800DM	1,325	1600-2100
TLAT2000DM	1,475	1750-2300
TLAT2400DM	1,765	1950-2500
TLAT2700DM	2,000	2000-2600
TLAT3000DM	2,200	2100-2700

Deck-mounted contra-rotating azimuth thruster

Model	Max. power kW	Propeller Ø mm
TLAT100DM-CR	75	400-600
TLAT250DM-CR	185	500-800
TLAT350DM-CR	260	700-1150
TLAT400DM-CR	300	900-1200
TLAT600DM-CR	445	1000-1400
TLAT850DM-CR	625	1200-1500
TLAT1000DM-CR	735	1250-1600

Model	Max. power kW	Propeller Ø mm
TLAT1200DM-CR	885	1300-1750
TLAT1400DM-CR	1,030	1350-1850
TLAT1600DM-CR	1,180	1500-1950

Shafting and accessories



Main propulsion shafting includes fixed-pitch and controllable-pitch propeller (CPP) systems. In a CPP, a mechanism in the hub turns the blades to change pitch, so the vessel can go ahead or astern, accelerate or slow down without changing shaft direction or speed.

AzimuthThruster supplies fixed-pitch and controllable-pitch shafting and related accessories. Custom designs are welcome.

Controllable-pitch propeller shafting

Model	Hub Ø mm	Propeller Ø mm
TLCP35	350	1100-1380
TLCP42	420	1300-1650
TLCP46	460	1500-1800
TLCP50	500	1650-1950
TLCP55	550	1850-2160
TLCP62	620	2050-2450
TLCP70	700	2300-2750
TLCP75	750	2600-2950
TLCP85	850	2800-3350
TLCP92	920	3000-3500
TLCP98	980	3200-3750
TLCP102	1,020	3400-3920
TLCP110	1,100	3650-4220

Contact

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Data shown are for standard models and can be adapted to vessel type, drive and class requirements. Final data are confirmed by AzimuthThruster.