AzimuthThruster · Azimuth & tunnel thrusters



Marine propulsion product catalogue

Complete marine propulsion system solutions, from design to delivery

117
standard models

11–3,800 kW
standard power range

CCS · DNV · BV · ABS
class certificates

2026-11-11
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
SINO-CT25	15	225	250	8	350	2.5
SINO-CT37	37	370	390	10	600	6
SINO-CT50	90	500	520	12	900	14.5
SINO-CT70	185	700	725	15	1,250	29.5
SINO-CT80	280	800	825	15	1,250	46
SINO-CT100	355	1000	1,030	20	1,400	56
SINO-CT120	500	1200	1,230	20	1,700	80
SINO-CT130	600	1300	1,335	20	1,800	96
SINO-CT145	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
SINO-TT25	11	225	250	8	350	1.5
SINO-TT37	30	370	390	10	600	4.5
SINO-TT50	50	500	520	12	800	7.5
SINO-TT70	160	700	725	15	1,000	24
SINO-TT80	200	800	825	15	1,050	30
SINO-TT90	250	900	925	20	1,150	38
SINO-TT110	330	1100	1,130	20	1,400	46
SINO-TT130	470	1300	1,335	20	1,500	66
SINO-TT135	520	1350	1,388	20	1,600	75
SINO-TT150	560	1500	1,535	25	1,650	84
SINO-TT165	760	1650	1,685	25	1,750	106
SINO-TT185	1,020	1850	1,890	25	2,000	132
SINO-TT200	1,270	2000	2,040	30	2,250	165
SINO-TT225	1,500	2250	2,290	30	2,400	200
SINO-TT240	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
SINO-TT265	2,000	2650	2,700	30	2,800	285
SINO-TT280	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
SINO-TT110-CP	330	1100	1,130	20	1,400	46
SINO-TT130-CP	470	1300	1,335	20	1,500	66
SINO-TT150-CP	560	1500	1,535	25	1,650	84
SINO-TT165-CP	760	1650	1,685	25	1,750	106
SINO-TT185-CP	1,020	1850	1,890	25	2,000	132
SINO-TT200-CP	1,270	2000	2,040	30	2,250	165
SINO-TT225-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
SINO-NT30	22	275-400
SINO-NT100	75	400-600
SINO-NT250	185	500-800
SINO-NT350	260	700-1150
SINO-NT400	300	900-1200
SINO-NT600	445	1000-1400
SINO-NT850	625	1200-1500
SINO-NT1000	735	1250-1600
SINO-NT1200	885	1300-1750
SINO-NT1400	1,030	1350-1850
SINO-NT1600	1,180	1500-1950
SINO-NT1800	1,325	1600-2100
SINO-NT2000	1,475	1750-2300
SINO-NT2400	1,765	1950-2500
SINO-NT2700	2,000	2000-2600
SINO-NT3000	2,200	2100-2700
SINO-NT3500	2,575	2200-2800
SINO-NT4000	2,950	2500-3200
SINO-NT5000	3,800	3000-4000

Retractable azimuth thruster

Model	Max. power kW	Propeller Ø mm
SINO-NT600/R	445	1000-1400
SINO-NT850/R	625	1200-1500
SINO-NT1000/R	735	1250-1600
SINO-NT1200/R	885	1300-1750
SINO-NT1400/R	1,030	1350-1850

Model	Max. power kW	Propeller Ø mm
SINO-NT1600/R	1,180	1500-1950
SINO-NT1800/R	1,325	1600-2100
SINO-NT2000/R	1,475	1750-2300
SINO-NT2400/R	1,765	1950-2500
SINO-NT2700/R	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
SINO-RZ-30/C	22	275-400
SINO-RZ-100/C	75	400-600
SINO-RZ-250/C	185	500-800
SINO-RZ-350/C	260	700-1150
SINO-RZ-400/C	300	900-1200
SINO-RZ-600/C	445	1000-1400
SINO-RZ-850/C	625	1200-1500
SINO-RZ-1000/C	735	1250-1600
SINO-RZ-1200/C	885	1300-1750
SINO-RZ-1400/C	1,030	1350-1850
SINO-RZ-1600/C	1,180	1500-1950

Retractable contra-rotating azimuth thruster

Model	Max. power kW	Propeller Ø mm
SINO-RZ-600	445	1000-1400
SINO-RZ-850	625	1200-1500
SINO-RZ-1000	735	1250-1600
SINO-RZ-1200	885	1300-1750
SINO-RZ-1400	1,030	1350-1850
SINO-RZ-1600	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

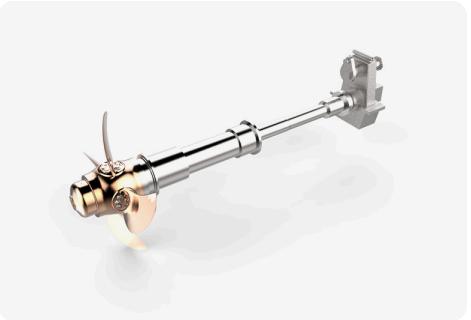
Model	Max. power kW	Propeller Ø mm
SINO-DT-100	75	400-600
SINO-DT-250	185	500-800
SINO-DT-350	260	700-1150
SINO-DT-400	300	900-1200
SINO-DT-600	445	1000-1400
SINO-DT-850	625	1200-1500
SINO-DT-1000	735	1250-1600
SINO-DT-1200	885	1300-1750
SINO-DT-1400	1,030	1350-1850
SINO-DT-1600	1,180	1500-1950
SINO-DT-1800	1,325	1600-2100
SINO-DT-2000	1,475	1750-2300
SINO-DT-2400	1,765	1950-2500
SINO-DT-2700	2,000	2000-2600
SINO-DT-3000	2,200	2100-2700

Deck-mounted contra-rotating azimuth thruster

Model	Max. power kW	Propeller Ø mm
SINO-DT-100-C	75	400-600
SINO-DT-250-C	185	500-800
SINO-DT-350-C	260	700-1150
SINO-DT-400-C	300	900-1200
SINO-DT-600-C	445	1000-1400
SINO-DT-850-C	625	1200-1500
SINO-DT-1000-C	735	1250-1600

Model	Max. power kW	Propeller Ø mm
SINO-DT-1200-C	885	1300-1750
SINO-DT-1400-C	1,030	1350-1850
SINO-DT-1600-C	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
SINO-SSCP35	350	1100-1380
SINO-SSCP42	420	1300-1650
SINO-SSCP46	460	1500-1800
SINO-SSCP50	500	1650-1950
SINO-SSCP55	550	1850-2160
SINO-SSCP62	620	2050-2450
SINO-SSCP70	700	2300-2750
SINO-SSCP75	750	2600-2950
SINO-SSCP85	850	2800-3350
SINO-SSCP92	920	3000-3500
SINO-SSCP98	980	3200-3750
SINO-SSCP102	1,020	3400-3920
SINO-SSCP110	1,100	3650-4220

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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.