



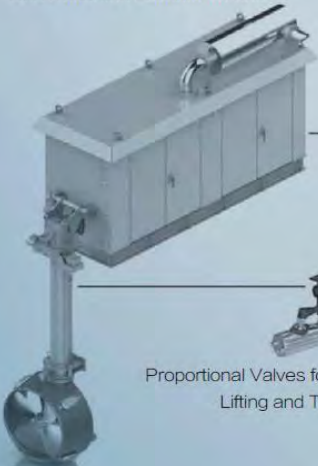
THRUSTERS

THRUSTERS

Control System



Deck Mounted Azimuth Thruster



Local Control Box



Proportional Valves for Steering
Lifting and Tilting



Bridge Control Panels



Central Control Box



Local Control Panel



Retractable Azimuth Thruster

Model	Max. power (kW)	Prop. dia. (mm)
TLAT100RT	60	400-600
TLAT250RT	184	500-800
TLAT350RT	258	700-1150
TLAT600RT	441	1000-1400
TLAT850RT	625	1200-1500
TLAT1000RT	736	1150-1600
TLAT1200RT	883	1250-1750
TLAT1400RT	1030	1350-1850
TLAT1600RT	1177	1500-1950
TLAT1800RT	1324	1600-2100
TLAT2000RT	1470	1750-2300



Model	Max. power (kW)	Prop. dia. (mm)
TLAT100RT-CR	60	400-600
TLAT250RT-CR	184	500-800
TLAT350RT-CR	184	700-1150
TLAT600RT-CR	441	1000-1400
TLAT850RT-CR	625	1200-1500
TLAT1000RT-CR	736	1150-1600
TLAT1200RT-CR	883	1250-1750
TLAT1400RT-CR	1030	1350-1850
TLAT1600RT-CR	1177	1500-1950

The drive type can be selected according to the user's requirement, such as diesel engine drive, e-motor drive, h-motor drive and so on.
Select L-type or Z-type installation method according to the cabin space.



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Deck Mounted Azimuth Thruster

Model	Max. power (kW)	Prop. dia. (mm)
TLAT100DM-CR	60	400-600
TLAT250DM-CR	184	500-800
TLAT350DM-CR	258	700-1150
TLAT600DM-CR	441	1000-1400
TLAT850DM-CR	625	1200-1500
TLAT1000DM-CR	736	1150-1600
TLAT1200DM-CR	883	1250-1750
TLAT1400DM-CR	1030	1350-1850
TLAT1600DM-CR	1177	1500-1950

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Select L-type or Z-type installation method according to the cabin space.

Model	Max. power (kW)	Prop. dia. (mm)
TLAT100DM	60	400-600
TLAT250DM	184	500-800
TLAT350DM	258	700-1150
TLAT600DM	441	1000-1400
TLAT850DM	625	1200-1500
TLAT1000DM	736	1150-1600
TLAT1200DM	883	1250-1750
TLAT1400DM	1030	1350-1850
TLAT1600DM	1177	1500-1950
TLAT1800DM	1324	1600-2100
TLAT2000DM	1470	1750-2300
TLAT2700DM	1985	2100-2600



Control System

Hydraulic unit (CPP tunnel thruster)
Including oil tank, hydraulic pump, valve and so on

Remote control system
Including motor starter, e-motor, control panel, central control box and so on



Generator Set



Control Panel

Switch



Oil Gravity Tank



Tunnel Thruster



Frequency Converter



Control Box



THRUSTERS

Contra-rotating Propeller Tunnel Thruster



Model	Max. power (kW)	Prop. dia. (mm)	Tunnel inner dia. (mm)	Tunnel inner thickness (mm)	Tunnel length (mm)	Max. thrust (kN)
TLCT25	35	225	250	12	450	5.1
TLCT50	90	500	520	12	800	13.5
TLCT70	185	700	725	15	1050	33
TLCT80	280	800	825	15	1250	46
TLCT100	355	1000	1030	20	1400	56
TLCT120	500	1200	1230	20	1550	80
TLCT145	650	1450	1485	25	1750	102



Drive type:

- Diesel engine
- E-motor
- H-motor

Installation type:

- L type
- Z type

Product advantage

- The same power, the maximum thrust
- The same thrust, the minimum propeller diameter



Fixed Pitch Propeller Tunnel Thruster

Model	Max. power (kW)	Prop. dia. (mm)	Tunnel inner dia. (mm)	Tunnel inner thickness (mm)	Tunnel length (mm)	Max. thrust (kN)
TLTT25	22	225	250	12	480	5
TLTT50	50	500	520	12	750	10
TLTT60	80	600	620	15	800	13
TLTT70	160	700	725	15	1000	23
TLTT80	200	800	825	15	1050	32
TLTT90	250	900	925	20	1150	38
TLTT110	330	1100	1130	20	1400	46
TLTT130	470	1300	1335	20	1500	66
TLTT150	560	1500	1535	25	1650	84
TLTT165	760	1650	1685	25	1750	106
TLTT185	1020	1850	1890	25	2000	132
TLTT200	1270	2000	2040	30	2250	165



Drive type:

- Diesel engine
- E-motor
- H-motor

Controllable Pitch Propeller Tunnel Thruster

Installation type:

- L type
- Z type



Model	Max. power (kW)	Prop. dia. (mm)	Tunnel inner dia. (mm)	Tunnel inner thickness (mm)	Tunnel length (mm)	Max. thrust (kN)
TLTT110-CP	330	1100	1130	20	1400	46
TLTT130-CP	470	1300	1335	20	1500	66
TLTT150-CP	560	1500	1535	25	1650	84
TLTT165-CP	760	1650	1685	25	1750	106
TLTT185-CP	1020	1850	1890	25	2000	132
TLTT200-CP	1270	2000	2040	30	2250	165

