

How to choose the right thruster for your boat

The boat's wind area, the 'lateral wind draft area' and the thruster's tunnel position in the hull determine the thruster's performance on a boat. By knowing these factors we can calculate the wind pressure on the boat and the centre point of this wind pressure. From these calculations we can determine what thrust is needed to counter the wind pressure with the given thruster position. To gain total control of your boat, install both a bow and stern thruster, leaving the main engines to propel the boat forward and backward.

To select the right Lewmar thruster:

- Calculate the wind pressure on the boat using the Force Factor Guide
- Locate your vessels length and force factor on the Thruster Selection Guide
- Identify the correct thruster model

Force Factor Guide

		A	B	C
				
		A	B	C
		LIGHT DISPLACEMENT/ LOW WINDAGE	MEDIUM DISPLACEMENT/ MEDIUM WINDAGE	HEAVY DISPLACEMENT/ HIGH WINDAGE
WIND EFFECTS (CONDITIONS)				
Slight	5-8 m/s, 11-16 Knots, Beaufort F4, 12-18mph	1	2	3
Moderate	8-11 m/s, 17-21 Knots, Beaufort F5, 19-24mph	4	5	6
Rough	11-14 m/s, 21-26 Knots, Beaufort F6, 25-30mph	7	8	9

Thruster selection guide

FORCE FACTOR	BOAT LENGTH OVERALL													
	LOA ft LOA m	30 9	35 11	40 12	45 14	50 15	55 17	60 18	65 20	70 21	75 23	80 24	85 26	90 27
1		140TT 2.0	140TT 2.0	140TT 2.2	185TT 3.0	185TT 4.0	185TT 5.0	185TT 6.0	250TT 8.0	250TT 9.6	300TT 10.8	300TT 10.8	300TT 15.0	300TT 15.0
2		140TT 2.0	140TT 2.0	140TT 2.2	185TT 3.0	185TT 4.0	185TT 5.0	185TT 6.0	250TT 8.0	250TT 9.6	300TT 10.8	300TT 10.8	300TT 15.0	300TT 15.0
3		140TT 2.0	140TT 2.2	185TT 3.0	185TT 4.0	185TT 5.0	185TT 6.0	250TT 8.0	250TT 9.6	300TT 10.8	300TT 10.8	300TT 15.0	300TT 15.0	300TT Hyd
4		140TT 2.0	140TT 2.2	185TT 3.0	185TT 4.0	185TT 5.0	185TT 6.0	250TT 8.0	250TT 9.6	300TT 10.8	300TT 10.8	300TT 15.0	300TT Hyd	300TT Hyd
5		140TT 2.2	185TT 3.0	185TT 4.0	185TT 5.0	185TT 6.0	250TT 8.0	250TT 9.6	300TT 10.8	300TT 10.8	300TT 15.0	300TT 15.0	300TT Hyd	300TT Hyd
6		140TT 2.2	185TT 3.0	185TT 4.0	185TT 5.0	185TT 6.0	250TT 8.0	250TT 9.6	300TT 10.8	300TT 10.8	300TT 15.0	300TT Hyd	300TT Hyd	300TT Hyd
7		185TT 3.0	185TT 4.0	185TT 5.0	185TT 6.0	250TT 8.0	250TT 9.6	300TT 10.8	300TT 10.8	300TT 15.0	300TT Hyd	300TT Hyd	300TT Hyd	300TT Hyd
8		185TT 3.0	185TT 4.0	185TT 5.0	185TT 6.0	250TT 8.0	250TT 9.6	300TT 10.8	300TT 15.0	300TT Hyd	300TT Hyd	300TT Hyd	300TT Hyd	300TT Hyd
9		185TT 4.0	185TT 5.0	185TT 6.0	250TT 8.0	250TT 9.6	300TT 10.8	300TT 15.0	300TT Hyd	300TT Hyd	300TT Hyd	300TT Hyd	300TT Hyd	300TT Hyd

Note: The 250TT Hyd can be used in all areas that the 300TT 10.8 appears.



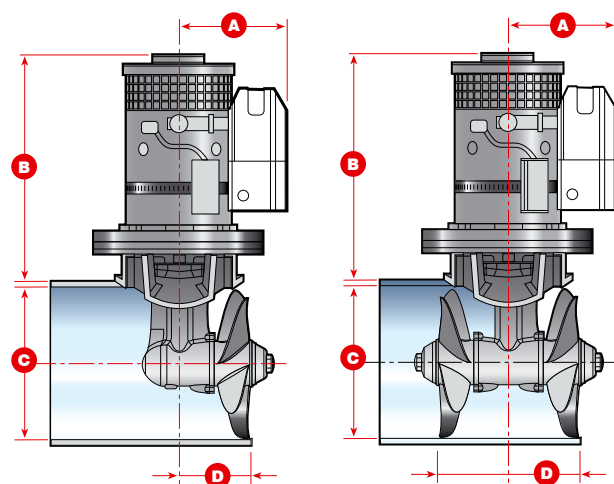
TT Electric Thruster

As marinas get smaller and berths get tighter, safely docking a boat is more challenging than ever. TT Electric Thrusters give you total control of your boat and allow you to manoeuvre into and out of tight spots with ease.

- Range from 2.0kw (3HP) to 15kw (20HP)
- No reservoir to install, no leaks and no maintenance
- High performance 5 blade propellers give equal thrust in both directions
- High integrity seal
- Spline driven propeller, no drive pin required
- Black box electronics prevents misuse and protects motor
- Hardened and ground spiral bevel gears for maximum efficiency and quiet power transmission
- Self-resetting thermal protection on all motors
- Choice of Joystick or Touch Panel controls
- Easy plug-together switch connections
- Minimum silhouette hub for smooth water flow



Dimensions Diagram



140TT & 185TT

250TT & 300TT

TT Thruster Specifications

PART NUMBER	MODEL	VOLTAGE	POWER		GEARBOX MATERIAL	TUNNEL	PROPS	THRUST		WEIGHT		A		B		C		D	
			kW	HP				Kgf	lb	kg	lb	mm	in	mm	in	mm	in	mm	in
591482	140TT2.0	12	2	2.7	Composite	140	Single 5-blade	37	81	13	29	123	4 9/16	213	8 3/8	140	5 1/2	71	2 13/16
591481	140TT2.2	12	2.2	3	Composite	140	Single 5-blade	42	92	13	29	123	4 9/16	235	9 1/4	140	5 1/2	71	2 13/16
591801	185TT3.0	12	3	4	Bronze	185	Single 5-blade	58	128	20	43	148	5 7/8	293	11 1/2	185	7 5/16	83	3 1/4
591802	185TT3.0	24	3	4	Bronze	185	Single 5-blade	58	128	20	43	148	5 7/8	293	11 1/2	185	7 5/16	83	3 1/4
591807	185TT4.0	12	4	5.4	Bronze	185	Single 5-blade	65	143	20	43	148	5 7/8	293	11 1/2	185	7 5/16	83	3 1/4
591808	185TT4.0	24	4	5.4	Bronze	185	Single 5-blade	65	143	20	43	148	5 7/8	293	11 1/2	185	7 5/16	83	3 1/4
591803	185TT5.0	12	5	6.7	Bronze	185	Single 5-blade	82	180	27	59	162	6 3/8	315	12 3/8	185	7 5/16	83	3 1/4
591804	185TT5.0	24	5	6.7	Bronze	185	Single 5-blade	82	180	27	59	162	6 3/8	315	12 3/8	185	7 5/16	83	3 1/4
591805	185TT6.0	12	6	8	Bronze	185	Single 5-blade	97	213	27	59	161	6 3/8	343	13 1/2	185	7 5/16	83	3 1/4
591806	185TT6.0	24	6	8	Bronze	185	Single 5-blade	97	213	27	59	161	6 3/8	343	13 1/2	185	7 5/16	83	3 1/4
592501	250TT8.0	24	8	10.8	Bronze	250	Twin CR	160	353	46	102	165	6 1/2	422	16 5/8	250	9 13/16	256	10 1/16
592502	250TT9.6	48	9.6	13	Bronze	250	Twin CR	170	374	50	110	183	7 1/4	427	16 13/16	250	9 13/16	256	10 1/16
592503	250TT8.0	24	8	10.8	Aluminium	250	Twin CR	160	353	46	102	165	6 1/2	422	16 5/8	250	9 13/16	256	10 1/16
593001	300TT10.8	24	10.8	14.5	Bronze	300	Twin CR	250	550	65	143	203	8	450	17 11/16	300	11 13/16	320	12 7/8
593002	300TT15	48	15	20	Bronze	300	Twin CR	280	616	68	150	203	8	450	17 11/16	300	11 13/16	320	12 7/8
593003	300TT10.8	24	10.8	14.5	Aluminium	300	Twin CR	250	550	65	143	203	8	450	17 11/16	300	11 13/16	320	12 7/8

CR = Counter Rotating