

## Thruster Selection Guide

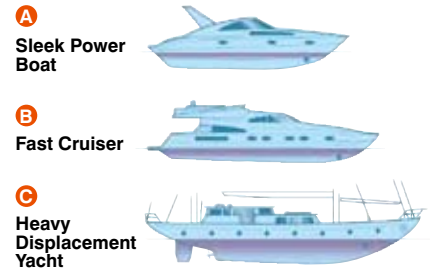
After deciding FF above locate boat LOA and appropriate TT Thruster

FF	LOA ft LOA (m) (9)	30 (10.5)	40 (12)	45 (13.5)	50 (15)	55 (16.7)	60 (18.2)	65 (19.7)	70 (21.2)	75 (22.7)	80 (24.2)	85 (26)	90 (27.3)
1	140TT 2.0	140TT 2.0	140TT 2.2	185TT 3.0	185TT4.0	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	185TT4.0	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	185TT4.0	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	185TT4.0	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	185TT4.0	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	185TT4.0	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	185TT4.0	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	185TT4.0	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	185TT4.0	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 250TTHyd can be used in all areas that the 300TT10.8 appears.

## Force Factor Guide

	Wind Effects (Conditions)	Force Factor		
		A Light Displacement/ Low Windage	B Medium Displacement/ Medium Windage	C Heavy Displacement/ High Windage
<b>Slight</b>	5-8M/S, 11-16 Knots, Beaufort F4, 12-18mph	1	2	3
<b>Moderate</b>	8-11M/S, 17-21 Knots, Beaufort F5, 19-24mph	4	5	6
<b>Rough</b>	11-14M/S, 21-26 Knots, Beaufort F6, 25-30mph	7	8	9



## Thruster Features

- 1 Sealed gear leg with long-life "mechanical" seal allow Lewmar thrusters to be fitted without the need for a top up reservoir, they are pre-filled with special gear oil for lifetime lubrication.
- 2 The gearbox is fitted with a spline drive and all bronze drive legs are fully galvanically protected.
- 3 We offer a composite drive leg in the 140 TT, which does not require anodes.
- 4 The Lewmar thruster controller intelligently protects the thruster from potential inherent problems in all high current applications as well as user faults. It includes several important safety features imperative in a product with such high power, run by DC electrics, as a thruster.
- 5 The 5 blade special propellers are the result of much testing over a number of years of development work and thousands of tests. They have been designed to reduce the noise level, while maintaining the exceptional efficiency. This goal was achieved, and we even chose to make them a little bit more aggressive on some models, increasing the thrust on some thrusters.

Many of our competitors have now tried to copy our propellers with limited success. The Lewmar thruster is quieter and more efficient. Please see individual information on each new thruster for more details.

- 6 To provide reliable and safe thruster installations in more boats, we offer modified versions of our DC electric thrusters in watertight housings for use in stern and other locations that may get wet or are exposed to gasoline fumes. These IP thrusters are fully ignition protected (ISO 8846) for use in boats with gasoline engines. They have a hermetically sealed composite housing around all electric parts. This provides the ignition protection as no gasoline fumes can enter and be ignited by sparks.

All electric parts that could be damaged by water are covered and protected, making Lewmar's thrusters the ideal choice for stern thruster installations where it is difficult to ensure that the thruster will always remain dry.

