

# CRAFTSMAN MARINE THRUSTERS

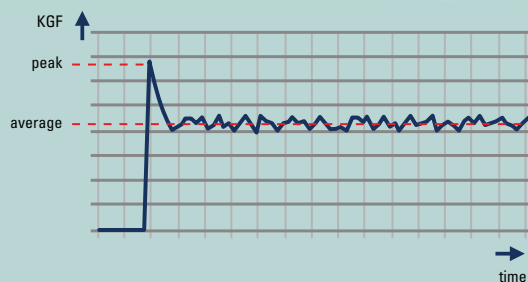
*Bow and stern thrusters have become an important device when moving at low speed. It makes manoeuvring easier, safer and quicker.*

Thrusters for pleasure craft have to be small, easy to install, reliable, efficient, long-lasting and easy to handle from the console. The robust and versatile Craftsman Marine thrusters meet all these requirements.

Our thruster propellers are designed to achieve maximum thrust in a relatively small tunnel diameter. Made of maintenance-free synthetic material, these propellers are capable of running in both directions, producing thrust to port and starboard.

Depending on your hull structure, length and your vessel's water displacement, you can select the right thruster for your vessel.

***Craftsman Marine specifies the average force of the thrusters, however the starting peak force (1 second) can easily be 60% higher.***



FAN for extra cooling  
(except for 55 kgf)

Motor temperature  
protection switch

Easily accessible battery  
connection terminals

Protection cover for  
electrical components

Oil expansion tank for models  
125 kgf, 150 kgf and 170 kgf

5A circuit breaker for  
the control panel

Waterproof and latch lock connector for  
the control panel. A 100% guaranteed  
connection also in case of vibrations.

Supplied with 1mm and 2mm  
gasket to centre the propeller  
inside the tunnel

Flexible coupling to  
absorb vibrations

Brass tail piece

Optimised 7 blade propeller  
for maximum thrust

Replaceable zinc or  
aluminium anode





Thruuster selection

Choosing the right thruuster for your boat is not easy. Many factors play a role when making a selection. Not only the length and height of the boat are important, but also the type of boat. A light displacement boat requires less force to manoeuvre than a heavy displacement boat and then there is the weather to take into account.

When the wind speed is twice as much, the wind force acting on the boat is four times as high. So when you always sail with your boat in perfect weather you can choose a smaller thruuster, but when you want to be able to control your boat under all weather conditions you need to install a more powerful thruuster.

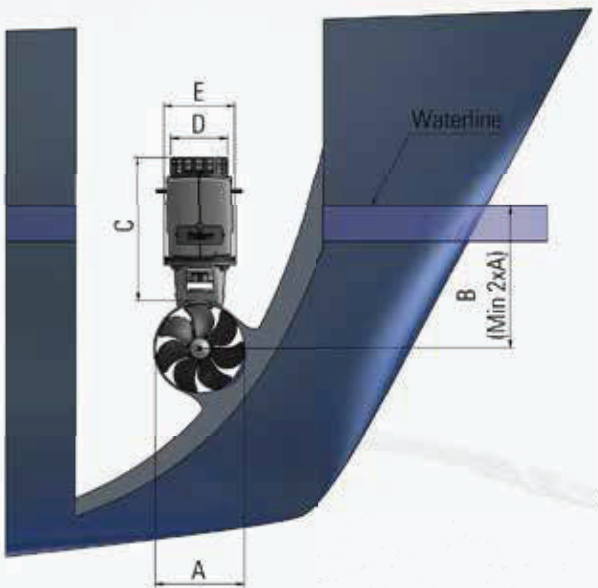
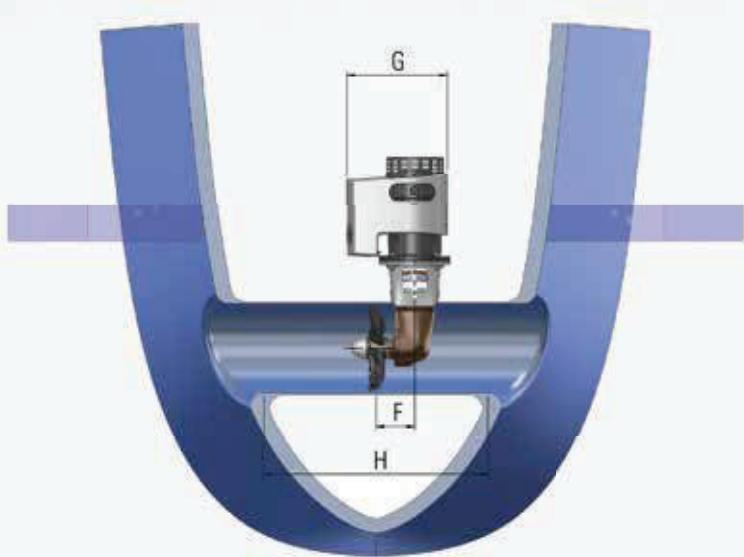
Light displacement



Medium displacement



Heavy displacement



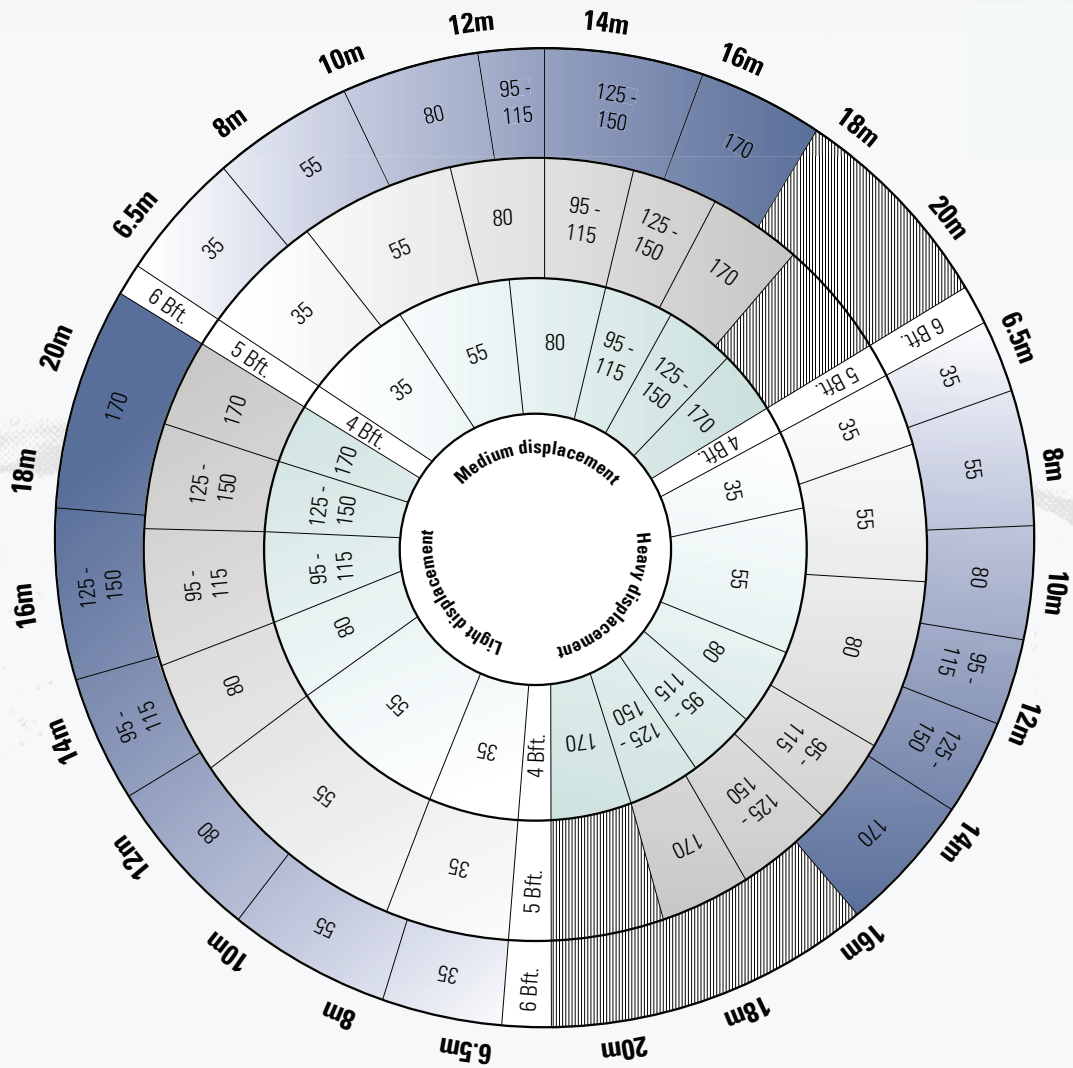
	Thruuster 35kgf 12V	Thruuster 55kgf 12V	Thruuster 80kgf 12V	Thruuster 80kgf 24V	Thruuster 95kgf 12V	Thruuster 115kgf 24V	Thruuster 125kgf 12V	Thruuster 150kgf 24V	Thruuster 170kgf 24V
A	ø110 mm	ø150 mm	ø185 mm	ø185 mm	ø185 mm	ø185 mm	ø250 mm	ø250 mm	ø250 mm
B (min.)	220 mm	300 mm	370 mm	370 mm	370 mm	370 mm	500 mm	500 mm	500 mm
C	276 mm	303 mm	344 mm	307 mm	372 mm	372 mm	404 mm	404 mm	422 mm
D	ø114 mm	ø128 mm	ø126 mm	ø128 mm	ø160 mm	ø160 mm	ø160 mm	ø160 mm	ø172 mm
E	ø175 mm	ø175 mm	ø175 mm	ø175 mm	ø200 mm	ø200 mm	ø200 mm	ø200 mm	ø200 mm
F	68 mm	68 mm	68 mm	68 mm	68 mm	68 mm	115 mm	115 mm	115 mm
G	238 mm	238 mm	238 mm	294 mm	294 mm	294 mm	294 mm	294 mm	301 mm
H (min.)	110 mm	150 mm	185 mm	185 mm	185 mm	185 mm	250 mm	250 mm	250 mm

We have made a thruster selection guide to give you an idea of the thruster suitable for your boat. Your dealer will assist you in selecting the correct thruster.

Follow the steps below to find your Craftsman Marine thruster:

Step 1.	Select your type of boat. In the graph are three boat types: light displacement, medium displacement and heavy displacement. Rotate the graph so that your boat type is facing upward.
Step 2.	Select the length of your boat.
Step 3.	Choose under what wind conditions you want to be able to manoeuvre the boat. You can choose between 4bft, 5bft or 6bft (bft = beaufort).

As you will see, the type of bowthruster can vary by as much as three types depending on the chosen weather conditions. Take into consideration that most of the times manoeuvring will be in a sheltered harbor. Manoeuvring with the wind on the bow will also require less force than wind from the side, so choose your berth carefully. For installation of the biggest thruster possible you not only require batteries with a higher capacity but also thicker cables and bigger fuses.





**Optional equipment:** please see page 83 for a complete overview of remote controls.

	THRUSTER 35kgf 12V	THRUSTER 55kgf 12V	THRUSTER 80kgf 12V
<b>Article code:</b>	BA.110.20012	BA.150.20012	BA.185.20012
<b>Thrust force @ 10.5V:</b>	35 kgf	55 kgf	80 kgf
<b>Tunnel diameter:</b>	110 mm	150 mm	185 mm
<b>Power of electric motor:</b>	2.4 kW (3.3 hp)	3.5 kW (4.8 hp)	4.0 kW (5.4 hp)
<b>Motor type:</b>	12V DC	12V DC	12V DC
<b>Motor temperature switch:</b>	✓	✓	✓
<b>Operating time:</b>	2min/hr	2min/hr	2min/hr
<b>Current consumption:</b>	340 A	400 A	420 A
<b>Min. battery capacity: *</b>	105 Ah	140 Ah	140 Ah
<b>Main fuse slow-blow, type ANL: *</b>	250 A	300 A	355 A
<b>Battery cable, total length of plus and minus: *</b>	0-9m / 50mm <sup>2</sup> 9-13m / 70mm <sup>2</sup>	0-6m / 50mm <sup>2</sup> , 6-11m / 70mm <sup>2</sup> 11-14m / 95mm <sup>2</sup>	0-10m / 70mm <sup>2</sup> 10-14m / 95mm <sup>2</sup>
<b>Connection battery cable:</b>	M8	M10	M10
<b>Weight:</b>	12 kg	18 kg	19 kg

\* The recommended battery capacity, and cable ratings are based on an operation time of 2 minutes. Short cable lengths in combination with a higher battery capacity may overheat the electromotor. Depending on the boat installation and the distance between thruster and battery, other ratings can be chosen.

All thrusters are fitted with a zinc anode as standard. Aluminium anodes are available separately.





**Optional equipment:** please see page 84 for a complete overview of the fuse and fuse holder.

	THRUSTER 80kgf 24V	THRUSTER 95kgf 12V	THRUSTER 115kgf 24V
<b>Article code:</b>	BA.185.20024	BA.185.25012	BA.185.25024
<b>Thrust force @ 10.5V:</b>	80 kgf	95 kgf	115 kgf
<b>Tunnel diameter:</b>	185 mm	185 mm	185 mm
<b>Power of electric motor:</b>	4.0 kW (5.4 hp)	5.95 kW (8.1 hp)	5.95 kW (8.1 hp)
<b>Motor type:</b>	24V DC	12V DC	24V DC
<b>Motor temperature switch:</b>	✓	✓	✓
<b>Operating time:</b>	2min/hr	2min/hr	2min/hr
<b>Current consumption:</b>	240 A	640 A	320 A
<b>Min. battery capacity: *</b>	2*95 Ah	2*180 Ah	2*105 Ah
<b>Main fuse slow-blow, type ANL: *</b>	200 A	425 A	250 A
<b>Battery cable, total length of plus and minus: *</b>	0-19m / 35mm <sup>2</sup> 19-27m / 50mm <sup>2</sup>	0-9m / 95mm <sup>2</sup> 9-12m / 120mm <sup>2</sup>	0-20m / 50mm <sup>2</sup> 20-28m / 70mm <sup>2</sup>
<b>Connection battery cable:</b>	M10	M10	M10
<b>Weight:</b>	17 kg	25 kg	25 kg



**Optional equipment:** please see page 86 for a complete overview of the battery main switches.



	THRUSTER 125kgf 12V	THRUSTER 150kgf 24V	THRUSTER 170kgf 24V
<b>Article code:</b>	BA.250.20012	BA.250.20024	BA.250.25024
<b>Thrust force @ 10.5V / 21V:</b>	125 kgf	150 kgf	170 kgf
<b>Tunnel diameter:</b>	250 mm	250 mm	250 mm
<b>Power of electric motor:</b>	6.5 kW (8.8 hp)	6.5 kW (8.8 hp)	11.3 kW (15.4 hp)
<b>Motor type:</b>	12V DC	24V DC	24V DC
<b>Motor temperature switch:</b>	✓	✓	✓
<b>Operating time:</b>	2min/hr	2min/hr	2min/hr
<b>Current consumption:</b>	750 A	380 A	520 A
<b>Min. battery capacity: *</b>	2*230 Ah	2*105 Ah	2*180 Ah
<b>Main fuse slow-blow, type ANL: *</b>	500 A	250 A	355 A
<b>Battery cable, total length of plus and minus: *</b>	0-10m / 120mm <sup>2</sup> 10-13m / 150mm <sup>2</sup>	0-23m / 70mm <sup>2</sup> 23-31m / 95mm <sup>2</sup>	0-23m / 95mm <sup>2</sup> 23-30m / 120mm <sup>2</sup>
<b>Connection battery cable:</b>	M10	M10	M10
<b>Weight:</b>	33 kg	33 kg	38 kg

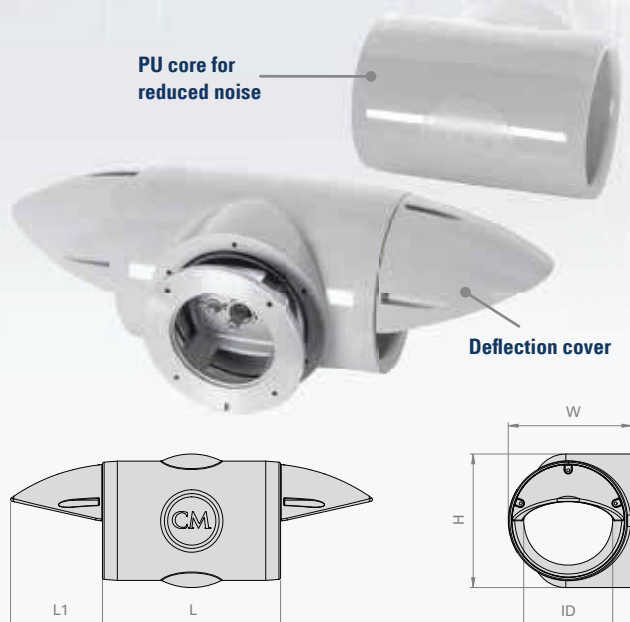
\* The recommended battery capacity, and cable ratings are based on an operation time of 2 minutes. Short cable lengths in combination with a higher battery capacity may overheat the electromotor. Depending on the boat installation and the distance between thruster and battery, other ratings can be chosen.

All thrusters are fitted with a zinc anode as standard. Aluminium anodes are available separately.

## Stern Thruster tunnel deluxe

Craftsman Marine stern thruster tunnels are built from a glassfiber reinforced polyester filled with PU foam. This sandwich construction creates a great look and helps to reduce noise.

Shallow draft vessels might need an additional deflection kit to use the stern tunnel. These additional covers are mounted on the tunnel and minimise the amount of false air being sucked into the tunnel.



Article codes		150 mm	185 mm
<b>BB.010.20150</b>	Stern thruster tunnel 150mm	<b>H</b> 225	230
<b>BB.050.20150</b>	Deflection covers 150mm	<b>ID</b> 150	185
		<b>L</b> 300	330
<b>BB.010.20185</b>	Stern thruster tunnel 185mm	<b>L1</b> 155	190
<b>BB.050.20185</b>	Deflection covers 185mm	<b>W</b> 208	236.5

## Anodes

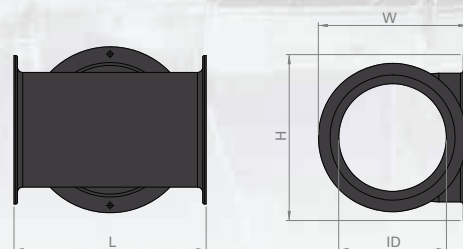
The anodes are available in both **zinc** and **aluminium**. For boats that are mainly used on fresh water aluminium is advised, while zinc is best suited for saltwater applications.



Thruster	Aluminium	Zinc
35 kgf	BA.110.95007	BA.110.90007
55 kgf	BA.150.95007	BA.150.90007
80 / 95 / 115 kgf	BA.185.95007	BA.185.90007
125 / 150 / 170 kgf	BA.250.95007	BA.250.90007

## Stern Thruster tunnel basic

When aesthetics are less important the new more simple stern thruster tunnel is the choice for you. It is strong and functional but lacks the elegance that made the original Craftsman Marine stern thruster stand out.



	<b>BB.010.25110</b>	<b>BB.010.25150</b>	<b>BB.020.25185</b>	<b>BB.020.25250</b>
<b>H</b>	240	260	285	285
<b>ID</b>	110	150	185	250
<b>L</b>	280	300	330	450
<b>W</b>	180	221.5	242	322

GRP: Glassfiber reinforced polyester

## Thruster Tubes

Craftsman Marine supplies the required tunnels in various lengths and diameters. The diameter of the tunnel depends on the chosen thruster. Tubes are made from steel or GRV (glass fibre reinforced vinylester). Vinylester is equally strong as polyester but does not absorb water.



Article codes	
<b>BG.110.21100</b>	GRV tunnel 110mm L=1.000mm
<b>BG.110.21300</b>	GRV tunnel 110mm L=3.000mm
<b>BG.150.21100</b>	GRV tunnel 150mm L=1.000mm
<b>BG.150.21300</b>	GRV tunnel 150mm L=3.000mm
<b>BG.185.21100</b>	GRV tunnel 185mm L=1.000mm
<b>BG.185.21300</b>	GRV tunnel 185mm L=3.000mm
<b>BG.250.21100</b>	GRV tunnel 250mm L=1.000mm
<b>BG.250.21150</b>	GRV tunnel 250mm L=1.500mm
<b>BG.110.22100</b>	Steel tunnel 110mm L=1.000mm
<b>BG.150.22100</b>	Steel tunnel 150mm L=1.000mm
<b>BG.185.22100</b>	Steel tunnel 185mm L=1.000mm
<b>BG.250.22100</b>	Steel tunnel 250mm L=1.000mm