

Mantus Anchor Sizing Guide

Use the following guide to determine what size of anchor to use:

When making sizing recommendations for a working anchor we are generally referring to the needs of a cruising boat spending most of its time on anchor. In doing so we try to envelope high sustained winds (50 kts) and assume poor holding conditions (low viscosity bottoms).

Some may think these recommendations to be too conservative especially when compared to sizing tables from other manufacturers. Companies often make claims of superior anchor efficiency, stating that their small anchor X will outperform a much heavier anchor from their competitors and often use sizing charts as a marketing tool to that end, recommending anchors and anchor systems that are dangerously undersized for their intended use.

Comparing surface area can be a good indicator of potential holding capability. Our anchor sizing recommendations are presented in the table below and divided in three categories: Lunch Anchor category is recommended for lighter use, expected winds under 30 knots, working anchor for winds under 50 knots and finally, storm anchor recommendations are intended for winds above 50 knots.

These recommendations are made assuming the worst-case scenario, a poor holding bottom and thus may seem conservative but we believe are accurate.

Anchor Size	Day Anchor recommended for winds < 30 knots	Cruising Anchor recommended for winds < 50 knots	Storm Anchor recommended for winds > 50 knots	Blade Surface Area Inches ²
8 lbs	16-20 feet < 3,000 lbs	0-16 feet < 1,000 lbs	0-12 feet < 800 lbs	63
13 lbs	20-25 feet < 5,000 lbs	16-20 feet < 3000lbs	12-16 feet < 1000 lbs	82
17 lbs	25-30 feet < 11,000 lbs	20-25 feet < 5000lbs	16-20 feet < 3000 lbs	102
25 lbs	30-35 feet < 15,000 lbs	25-30 feet < 11,000 lbs	20-25 feet < 5000 lbs	126
35 lbs	35-39 feet < 20,000 lbs	30-35 feet < 15,000 lbs	25-30 feet < 11,000 lbs	154
45 lbs	39-43 feet < 30,000 lbs	35-39 feet < 20,000 lbs	30-35 feet < 15,000 lbs	183
55 lbs	43-45 feet < 40,000 lbs	39-43 feet < 30,000 lbs	35-39 feet < 20,000 lbs	212
65 lbs	45-50 feet < 50,000 lbs	43-45 feet < 40,000 lbs	39-43 feet < 30,000 lbs	233
85 lbs	50-60 feet < 60,000 lbs	45-50 feet < 50,000 lbs	43-45 feet < 40,000 lbs	284
105 lbs	60-70 feet < 70,000 lbs	50-60 feet < 60,000 lbs	45-50 feet < 50,000 lbs	319
125 lbs	70-80 feet < 100,000 lbs	60-70 feet < 70,000 lbs	50-60 feet < 60,000 lbs	378
155 lbs	80-90 feet < 110,000	70-80 feet < 100,000 lbs	60-70 feet < 70,000 lbs	419
175 lbs	90-100 feet < 130,000	80-90 feet < 110,000 lbs	70-80 feet < 100,000 lbs	467

Anchor Size	Day Anchor recommended for winds < 30 knots	Cruising Anchor recommended for winds < 50 knots	Storm Anchor recommended for winds > 50 knots	Blade Surface Area cm ²
3.5 kg	5-6 meters < 1,300 kg	0-5 meters < 460 kg	0-3.6 meters < 360 kg	405
6 kg	6-7.5 meters < 2,300 kg	5-6 meters < 1,400 kg	3.6-5 meters < 460 kg	532
8 kg	7.5-9 meters < 5,000 kg	6-7.5 meters < 2,300 kg	5-6 meters < 1,400 kg	656
11.4 kg	9-10.6 meters < 6,800 kg	7.5-9 meters < 5,000 kg	6-7.5 meters < 2,300 kg	815
15 kg	10.6-12 meters < 9,090 kg	9-10.6 meters < 6,800 kg	7.5-9 meters < 5,000 kg	991
20 kg	12-13 meters < 13,600 kg	10.6-12 meters < 9,090 kg	8-10.6 meters < 6,800 kg	1183
25 kg	13-13.5 meters < 18,200 kg	12-13 meters < 13,600 kg	10.6-12 meters < 9,090 kg	1366
30 kg	13.5-15.2 meters < 23,000 kg	13-13.5 meters < 18,200 kg	12-13 meters < 13,600 kg	1505
39 kg	15.2-18.2 meters < 27,000 kg	13.5-15.2 meters < 23,000 kg	13-13.5 meters < 18,200 kg	1834
48 kg	18.2-21.2 meters < 32,000 kg	15.2-18.2 meters < 27,000 kg	13.5-15.2 meters < 23,000 kg	2059
57 kg	21.2-24.2 meters < 45,500 kg	18.2-21.2 meters < 32,500 kg	15.2-18.2 meters < 27,000 kg	2441
70 kg	24.2-27.3 meters < 50,500 kg	21.2-24.2 meters < 45,500 kg	18.2-21.2 meters < 32,500 kg	2701
80 kg	27.3-30.3 meters < 59,000 kg	24.2-27.3 meters < 50,000 kg	21.2-24.2 meters < 45,500 kg	3014