

Will the propeller be able to fit (space to the hull)

Unlike the general perception, even as little as 8-10 mm of free space between propeller and hull will be fine. However, this of course depends on the specific hull shape and less clearance will normally increase propulsion noise.

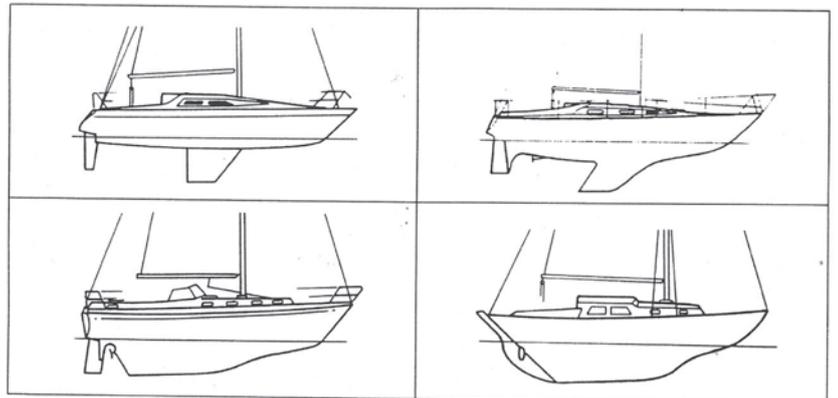
There is a rule of thumb that says 15% of the propeller diameter should be free space depending on the hull of the boat.

If you are unsure whether the propeller will be able to fit you could make a cardboard cut out of the propeller you have your heart set on and hold it on your shaft or saildrive.

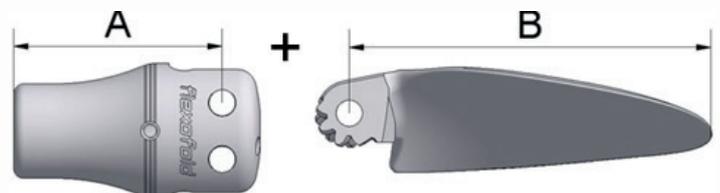


Are there any types of hulls that are not suitable for a folding propeller. The answer is yes - fortunately there are very few.

Here are a few examples of hulls that because of their design are not a good match for a folding propeller.



Due to the nature of the propeller construction, folding blades are positioned further aft than a fixed propeller (see hub length) and thereby leave more space between shaft and hull.



How to calculate the total length of the folded propeller. See table for both hub and blades on the next page



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HUB LENGTH (A)

ISO standard shaft

Hub length (A), 2-blade

22 mm shaft, 1:10 taper = 88 mm
25 mm shaft, 1:10 taper = 110 mm
30 mm shaft, 1:10 taper = 130 mm
30 - 2A mm shaft 1:10 = 137.50 mm
35 - 2A mm shaft 1:10 = 147.50 mm
40 - 2A mm shaft 1:10 = 157.50 mm

Hub length (A), 3-blade up to 23"

25 mm shaft, 1:10 taper = 120 mm
30 mm shaft, 1:10 taper = 136 mm
35 mm shaft, 1:10 taper = 146 mm
40 mm shaft, 1:10 taper = 156 mm
45 mm shaft, 1:10 taper = 196 mm

Hub length (A), 3-blade >22" and 4-blade

35 mm shaft, 1:10 taper = 148 mm
40 mm shaft, 1:10 taper = 157 mm
45 mm shaft, 1:10 taper = 196 mm
50 mm shaft, 1:10 taper = 206 mm

SAE standard shaft

Hub length (A), 2-blade

3/4" shaft, 1:16 taper = 100 mm
7/8" shaft, 1:16 taper = 115 mm
1" shaft, 1:16 taper = 130 mm
1 1/8" shaft, 1:16 taper = 142 mm
1 1/4" shaft, 1:16 taper = 157 mm

Hub length (A), 3-blade up to 23"

1" shaft, 1:16 taper = 136 mm
1 1/8 shaft, 1:16 taper = 146 mm
1 1/4" shaft, 1:16 taper = 156 mm
1 1/2" shaft, 1:16 taper = 194 mm
1 3/8" shaft, 1:16 taper = 177 mm
1 3/4" shaft, 1:16 taper = 210 mm

Hub length (A), 3-blade >22" & 4-blade

1 1/2" shaft, 1:16 taper = 202 mm
1 3/4" shaft, 1:16 taper = 210 mm
2" shaft, 1:16 taper = 275 mm

IMP standard shaft

Hub length (A), 2-blade

3/4" shaft, 1:12 taper = 96,5 mm
1" shaft, 1:12 taper = 110 mm
1 1/4" shaft, 1:12 taper = 129 mm

Hub length (A), 3-blade up to 23"

1" shaft, 1:12 taper = 116 mm
1 1/4" shaft, 1:12 taper = 136 mm
1 1/8 shaft, 1:12 taper = 120 mm

Hub length (A), 3-blade >22" & 4-blade

1 3/4 shaft, 1:12 taper = 196 mm

Saildrive

Hub for 2-blade propeller = 135 mm
Hub for 3-blade propeller = 135 mm

BLADE LENGTH (B)

2-blade propeller:

12" = 139 mm
13" = 152 mm
14" = 165 mm
15" = 177 mm
16" = 190 mm
17" = 203 mm
18" = 215 mm
19" = 228 mm
20" = 241 mm

3-blade propeller:

14" = 151 mm
15" = 163 mm
16" = 176 mm
17" = 189 mm
18" = 202 mm
19" = 216 mm
20" = 227 mm
22" = 250 mm
23" = 262 mm

4-blade propeller

25" = 275 mm

PROPELLER DIAMETER

Propeller diameter:

12" = 305 mm
13" = 330 mm
14" = 356 mm
15" = 381 mm
16" = 406 mm
17" = 432 mm
18" = 457 mm
19" = 485 mm
20" = 508 mm
21" = 533 mm
22" = 559 mm
23" = 585 mm
24" = 610 mm (3-blade propeller)
24" = 625 mm (4-blade propeller)
26" = 660 mm

