

# 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.

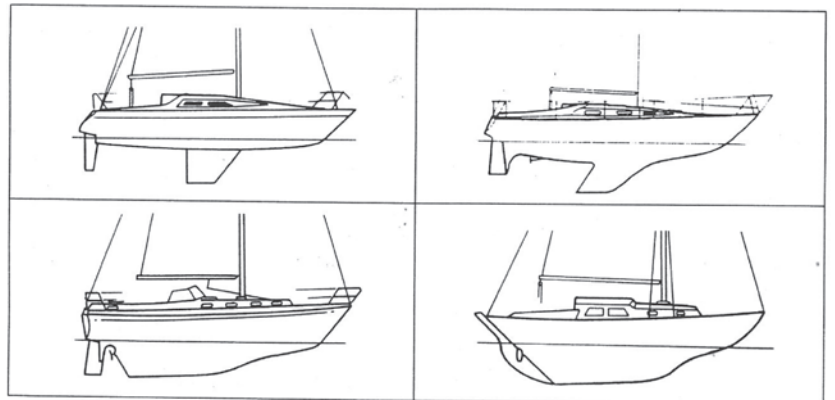
There is a rule of thumb that says 15% of the propeller diameter should be free space depending on the hull of the boat.

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.

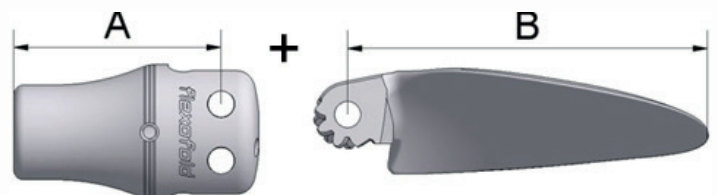


Are there any types of hulls that are not suitable for a folding propeller. The answer is yes - fortunately there are very few.

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**



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

## 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

