

# 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 the propeller and hull will be fine. However, this of course depends on the specific hull shape and less clearance will normally increase propulsion noise.

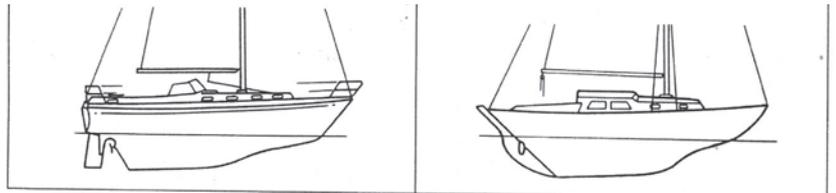
There is a rule of thumb that states 15% of the propeller diameter should be free space depending on the hull of the boat.

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.

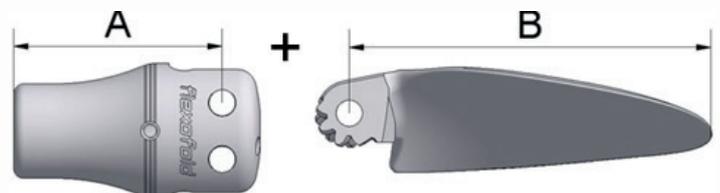


Are there hull types that are not suitable for a folding propeller? The answer is yes - fortunately they are very few.

To the right you will find examples of hull designs that are not well-suited for folding propellers.



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



**How to calculate the total length of the folded propeller: see the table for both hub and blade measurements 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  
 25 - 2A mm shaft 1:10 = 121.50 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  
 1" - 2A shaft 1:16 taper = 136 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  
 1" 1/4 - 2A shaft 1:12 taper = 136 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  
 Hub under 23" SD4z25 = 172 mm  
 Hub under 23" SD3z25 = 170 mm  
 Hub from 23" and up SD4z25 = 185 mm  
 Hub from 23" and up SD3z25 = 185 mm  
 Hub SD2A = 137 mm  
 Hub SD2C = 143 mm  
 Hub SD3C = 147 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

### 2-blade RA/LA propeller:

14" = 160 mm  
 15" = 172 mm  
 16" = 184 mm  
 17" = 197 mm  
 18" = 210 mm  
 19" = 222 mm  
 20" = 235 mm  
 22" = 261 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:

Ø110:  
 18" = 200 mm  
 19" = 212 mm  
 20" = 224 mm  
 22" = 250 mm  
 23" = 262 mm  
 25" = 275 mm

### 4-blade propeller

Ø 130:  
 26" = 287 mm  
 27" = 300 mm  
 29" = 325 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  
 27" = 685 mm

## BLADES FOR COMPOSITE

### 2LC:

14" = 154 mm  
 15" = 166 mm  
 16" = 179 mm  
 17" = 192 mm  
 18" = 205 mm  
 20" = 230 mm

### 3LC:

15" = 167 mm  
 16" = 180 mm  
 17" = 193 mm  
 18" = 206 mm  
 20" = 231 mm

