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 clearence will normally increase propulsion noise.

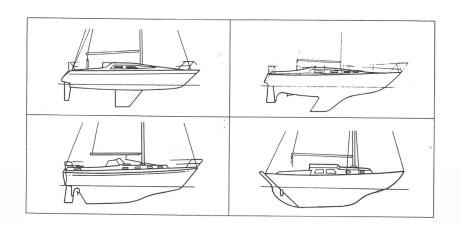
There is a rule of thumb that says 15% of the propeller diameter should me free space depending on the hull of the boat.

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.



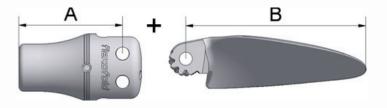
Are there any types of hulls that are not suitable for at folding propeller. The answer is yes - fortunately there are very few.

Here are a few example 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 \approx 3.5" 25 mm shaft, 1:10 taper = 110 mm \approx 4 3/8" 30 mm shaft, 1:10 taper = 130 mm \approx 5 1/8"

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

25 mm shaft, 1:10 taper = 120 mm \approx 4 47/64" 30 mm shaft, 1:10 taper = 136 mm \approx 5 23/64" 35 mm shaft, 1:10 taper = 146 mm \approx 5 3/4" 40 mm shaft, 1:10 taper = 156 mm \approx 6 9/64" 45 mm shaft, 1:10 taper = 196 mm \approx 7 23/32"

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

35 mm shaft, 1:10 taper = 148 mm \approx 5 53/64" 40 mm shaft, 1:10 taper = 157 mm \approx 6 3/16" 45 mm shaft, 1:10 taper = 196 mm \approx 7 23/32" 50 mm shaft, 1:10 taper = 206 mm \approx 8 1/8"

SAE standard shaft

Hub length (A), 2-blade

3/4" shaft, 1:16 taper = 100 mm \approx 4.0" 7/8" shaft, 1:16 taper = 115 mm \approx 4.5" 1" shaft, 1:16 taper = 130 mm \approx 5 1/8" 11/8" shaft, 1:16 taper = 142 mm \approx 5 19/32" 11/4" shaft, 1:16 taper = 157 mm \approx 6 3/16"

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

1" shaft, 1:16 taper = 136 mm \approx 5 23/64" 11/8 shaft, 1:16 taper = 146 mm \approx 5 3/4" 11/4" shaft, 1:16 taper = 156 mm \approx 6 9/64" 11/2" shaft, 1:16 taper = 194 mm \approx 7 41/64" 13/8" shaft, 1:16 taper = 177 mm \approx 7" 13/4" shaft, 1:16 taper = 210 mm \approx 8 9/32"

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

11/2" shaft, 1:16 taper = 202 mm ≈ 8" 13/4" shaft, 1:16 taper = 210 mm ≈ 8 9/32" 2" shaft, 1:16 taper = 275 mm ≈ 10 53/64"

IMP standard shaft

Hub length (A), 2-blade

3/4" shaft, 1:12 taper = 96,5 mm 1" shaft, 1:12 taper = 110 mm ≈ 4 3/8" 11/4" shaft, 1:12 taper = 129 mm ≈ 5 5/64"

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

1" shaft, 1:12 taper = 116 mm ≈ 4 37/64" 11/4" shaft, 1:12 taper = 136 mm ≈ 5 23/64" 11/8 shaft, 1:12 taper = 120 mm ≈ 4 47/64"

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

1 3/4 shaft, 1:12 taper = 196 mm ≈ 7 23/32"

Saildrive

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

BLADE LENGTH (B)

2-blade propeller:

12" = 139 mm \approx 5 31/64" 13" = 152 mm \approx 6" 14" = 165 mm \approx 6.5" 15" = 177 mm \approx 7" 16" = 190 mm \approx 7.5" 17" = 203 mm \approx 8" 18" = 215 mm \approx 8 15/32"

3-blade propeller:

14" = 151 mm \approx 6" 15" = 163 mm \approx 6 27/64" 16" = 176 mm \approx 6 15/16" 17" = 189 mm \approx 7 29/64" 18" = 202 mm \approx 7 61/64" 19" = 216 mm \approx 8 1/2" 20" = 227 mm \approx 8 15/16" 22" = 282 mm \approx 11 7/64"

4-blade propeller:

25" = 275 mm ≈ 10 53/64"

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

