



## SUP/board/kayak propeller - Compact water pusher



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## Summary

Push anything on the water: SUP, kayak, boat, board etc. Very compact, yet quite powerfull. Contains 70mm pump jet

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Tags: [water](#) [motor](#) [propeller](#) [super](#) [electric](#) [drive](#) [sup](#)

Dimensions without nozzle: 350x220x130 (still can be printed on 200x200 envelope - cover was cut printing)

Power: up to 2000W (with cooling)

Battery capacity: up to 150 Wh

Bill of materials - refer to the pictures

1. Print all the parts (1x)
2. Laser cut dxf parts
  - Seal - rubber (optional, you can create your own seal)
  - Flange - plastic
  - Plate - aluminum or plastic
  - Cover - plastic transparent (ex. PMMA - acrylic glass)
3. Assemble according to the pictures
4. Cover all the body around by liquid sealant

5. Connect electronics. Wires at least 12 AWG thick. Check the temperature inside often. Batteries, motor and ESC may get hot. Water cooling for power more than 300W is required. In my setting I used two 4S batteries in series (no paraller!), 6S lipo or 18V dewalt battery. All of them were fine, i just had different speeds due to different voltages.

## Model files



shell-v01-przecieciea.stl



shell-v01-przeciecie-b.stl



shell-v01-przeciecie2.stl



obudowa-v03.stl



nozzle-70mm.stl

seal.dxf

cover.dxf

ŝange.dxf

plate-270x180.dxf

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