Propeller geometry

The propeller has the following main particulars:

| Propeller diameter | $D_{ m P}$ | [mm] | 250.0000 |
|--------------------------|----------------------|------|--------------|
| Pitch at r/R=0.7 | P _{0.7} | [mm] | 408.7500 |
| Pitch at r/R=0.75 | P0.75 | [mm] | 407.3804 |
| Mean pitch | Pmean | [mm] | 391.8812 |
| Chord length at r/R=0.70 | C0.70 | [mm] | 104.1670 |
| Chord length at r/R=0.75 | C0.75 | [mm] | 106.3476 |
| Thickness at r/R=0.75 | <i>t</i> 0.75 | [mm] | 3.7916 |
| Pitch ratio | P0.7/D | [-] | 1.6350 |
| Mean pitch ratio | $P_{ m mean}/{ m D}$ | [-] | 1.5675 |
| Area ratio | AE $/A$ 0 | [-] | 0.7790 |
| Skew | $	heta_{ m eff}$ | [°] | 18.8000 |
| Hub diameter ratio | d h $/D_{ m P}$ | [-] | 0.1500 |
| Number of blades | Z | [-] | 5 |
| Direction of rotation | | | right-handed |

- The propeller is designed for academic purposes, with the intention to generate a stable tip vortex.
- The propeller is a controllable pitch propeller.

Hub cap

The hub cap geometry is provided. Please refer to the geometry file. The propeller is investigated in a pull configuration. The hub cap is accordingly.