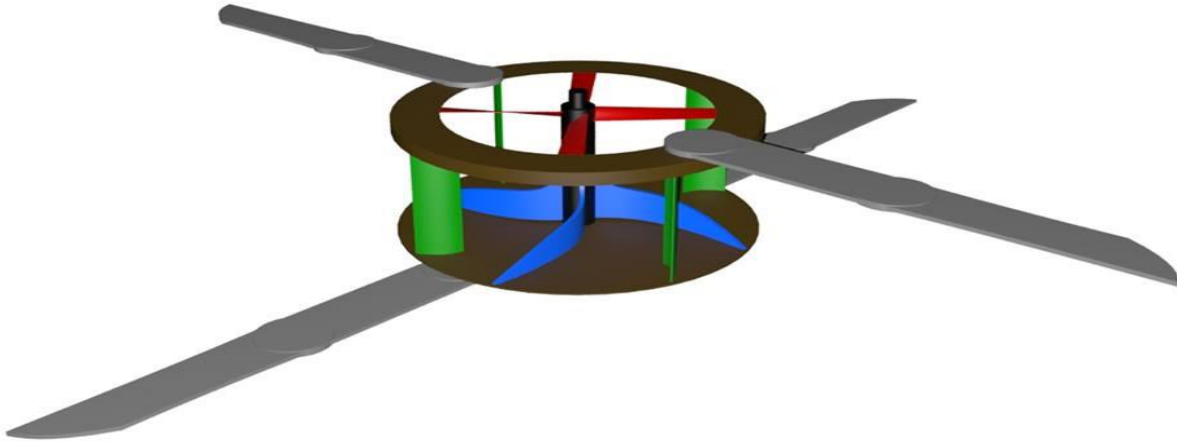


FOLDABLE TURBO PROPELLER



The turbo - propeller differs that its blades are mounted on a turbo - platform.

This turbo - platform has two operating modes. In both modes it supplies the bottom blades with more dense air.

It already is advantage.

In the first mode capacity of the top forcing propeller is more than capacity of a turbo - expander and lateral blades. In that case the temperature of air is directly transformed in capacity of rotation - on known effect of a turbo - expander.

In the second mode on the contrary - capacity of a propeller of the turbine is less than capacity of a turbo - expander and lateral blades. Hence the turbo - expander and lateral blades pump out more air than can force a propeller. Therefore the propeller itself rotates under influence of grasped from above atmospheric air.

Taking into account that fact, that this stream of air is forced by atmospheric pressure - the propeller receives more energy than the turbo - expander and lateral blades spend on pumping out of air from within turbines.

If capacity of lateral blades will be too great, the variant without the top small propeller is possible too - in that case atmospheric pressure will press directly on a turbo - expander.

In case of use by helicopters or flying cars this propeller will be collapsible. Blades will be folded by means of worm, pneumatic or electromagnetic reducers. Blades of a small propeller of the turbo - platform will be attached to the automatic device of a skew, etc



This turbo propeller can be more simple for drones. In this variant it will have only a turbo expander in the center with two modes of operation.

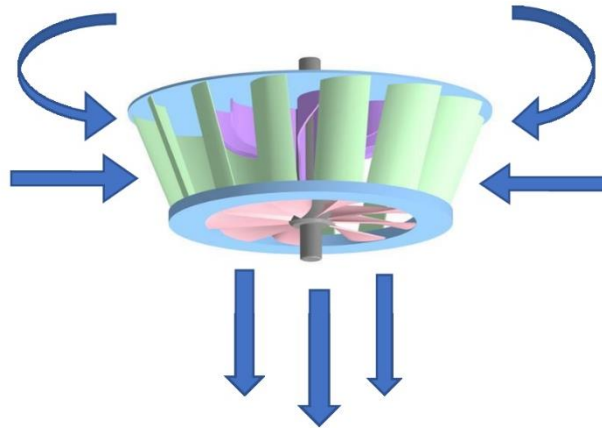
In the first mode, it pushes air out of the center and creates a dense layer of air in front of the blades. Thus, the lifting capacity is increased.

In the second mode, it is screwed into the air and increases the speed of movement. Thus, the central part of the propeller makes additional work.

The figure shows a flat turbo expander for clarity. But the conical version will be more effective



The turbo platform itself without folding blades can become a propeller for the drone. In this version, the platform creates traction in the following way: the side blades take the air and press it inside on the expander, after which this mass is pushed down by the propeller. This combination creates a several times higher lifting power than an ordinary propeller.



In a more efficient variant, another similar platform will rotate above this platform, but in the reverse mode of operation. It will rotate in the opposite direction. The upper propeller will grip the air and blow it through the side blades. **Thus, the upper platform will supply the bottom with a large amount of air.**

Consequently, the lift capacity of the bottom platform will increase even more.