

# EFFICIENCY OF ROTOR WITH ECCENTRIC MASS WITH SMALL OR GREATER SPEEDS

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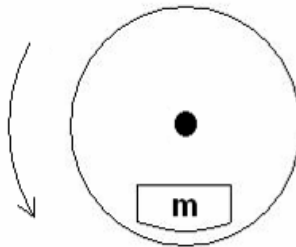
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During experiments with eccentric rotor, impression is that in the case of small speeds rotation in vertical plane can be used, but in the case of greater speeds rotation in horizontal plane was better.

Because idea of eccentric rotor was accepted by great number of researchers in last years, we are proposing following supplement: to reinvestigate horizontal rotation in cases of greater speeds as well as usage of ceramic bearings. In the case of vertical rotation it is necessary to investigate orientation in relation to action of Coriolis force.



Picture 1. Rotor with eccentric mass ( $m$ ) <http://www.veljkomilkovic.com/PatentiEng.html>

Definition and specific preposition for small and great speeds of rotation and favorable position of the rotor:

1. Small speed is minimal speed of rotation in vertical plane – there eccentric mass comes almost to halt in upper point, and maximum speed is achieved in low point of rotation. That way variable speed is in harmony with gravitation. To reduce friction in the case of vertical rotation we propose direction East – West because of elimination of axial friction in bearings due to action of Coriolis force. Besides that, for both cases of speeds and position of eccentric rotor, we propose application or at least investigation of the usage of ceramic bearings.
2. For the case of greater speeds of rotation of eccentric rotors, but with rather small mass ( $m$ ), an electromotor has been used. After testing and measuring of consummation of electric energy of electromotor we come to impression that it would be more efficient to use horizontal rotation.

There is only a hope that research will be continued and information exchanged for common welfare.

<http://www.veljkomilkovic.com>

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