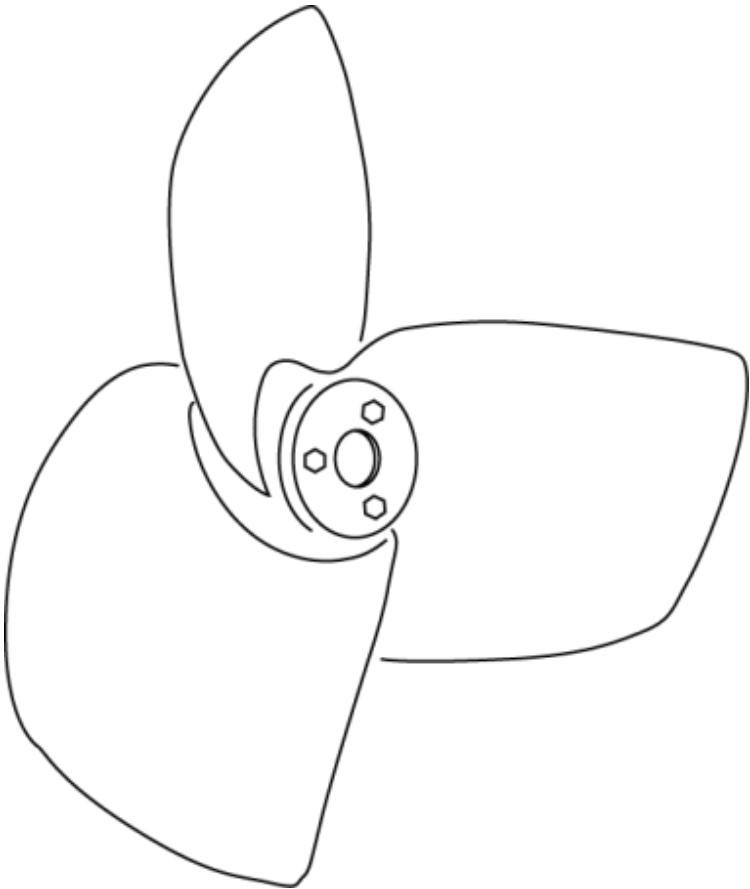
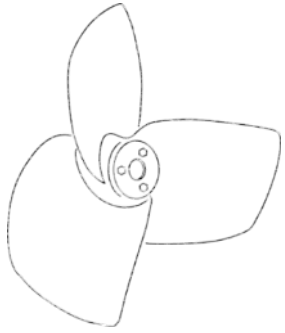




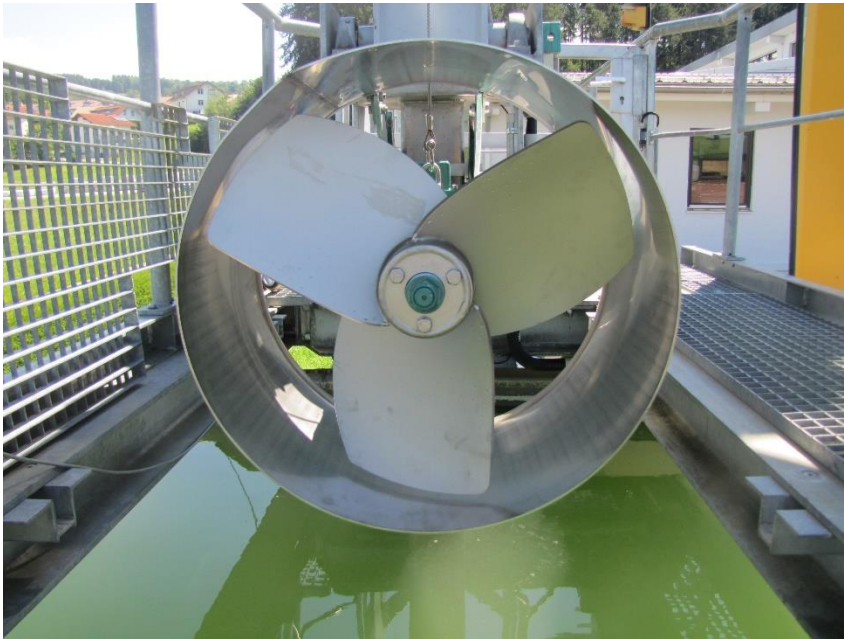
Results Jetring OM 2G 40-250 HD+620

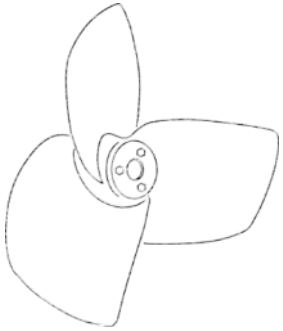
10.08.2022, AmT





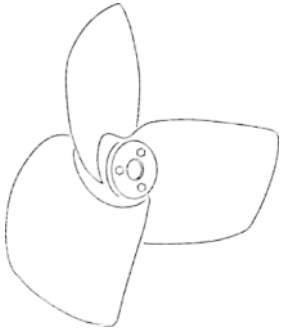
Photo





Results

- By using the flow ring, the electrical power consumption could be reduced by 13,5% in the test
- The thrust drops in comparison by 4,4%
- Thrust to power ratio increases by 7,7%

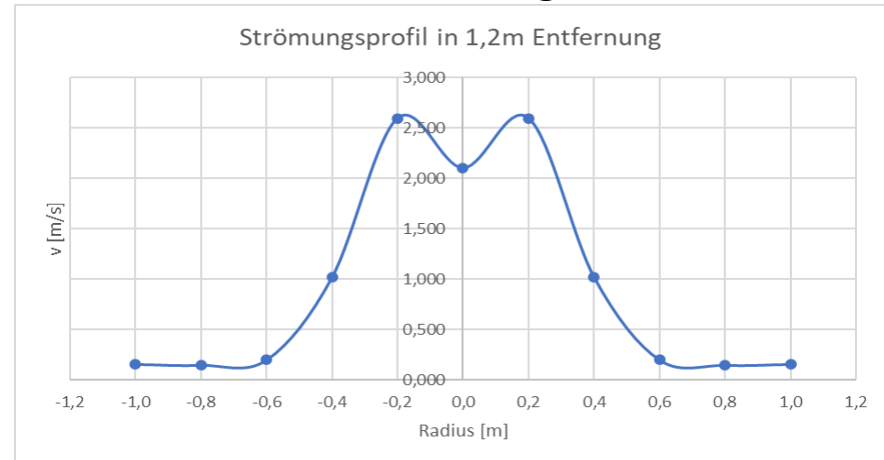


Flow profile 1,2m

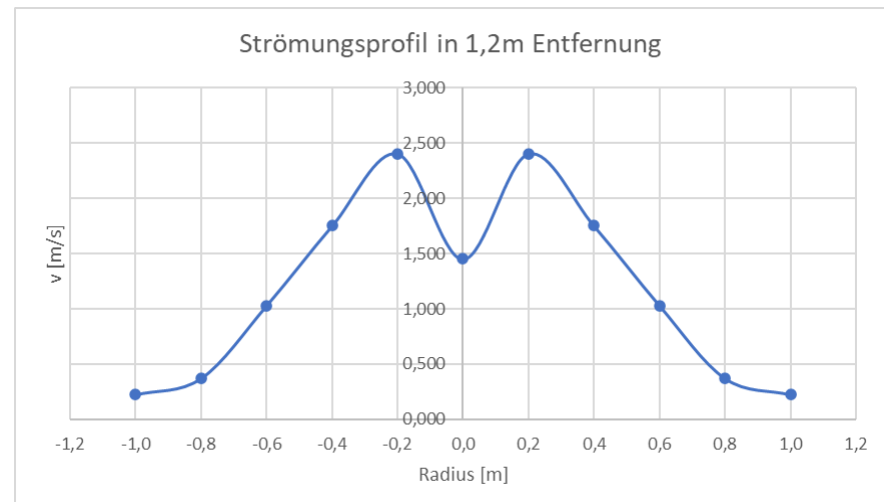
The flow profile, at a distance of 1.2 m from the propeller blade, with a ring shows a higher average flow velocity.

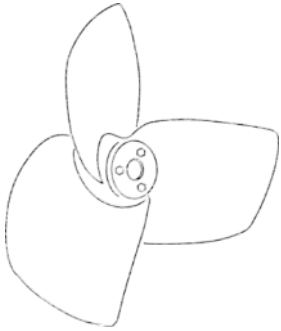
In the centre, the values are somewhat higher without the ring, but they decrease significantly faster with increasing radius than with the ring.

Without Jetring



With Jetring



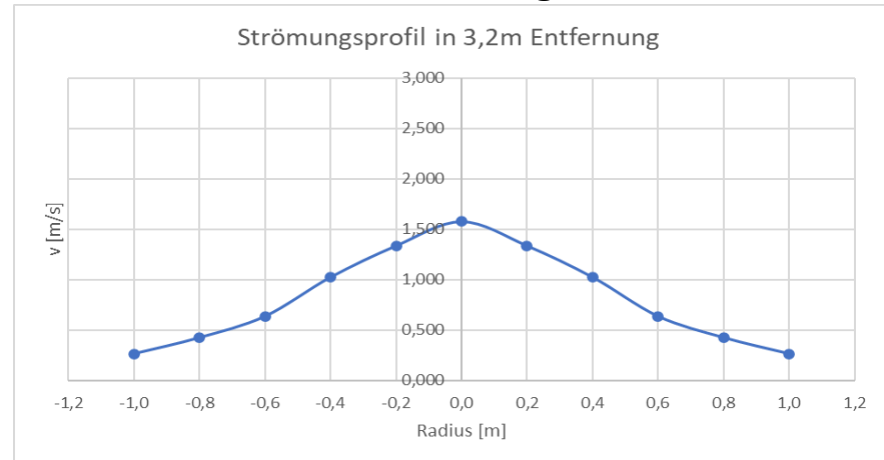


Flow profile 3,2m

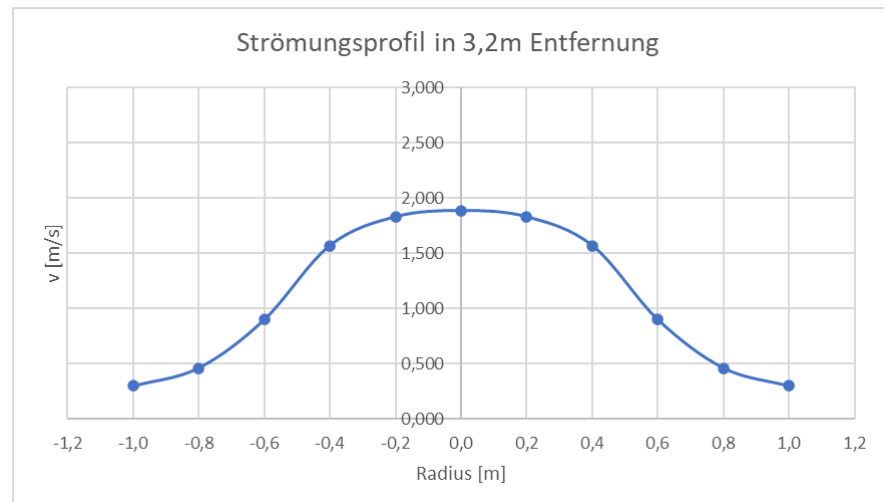
The flow profile, at a distance of 3.2 m from the agitator blade, with a ring shows higher flow velocities over the entire cross-section.

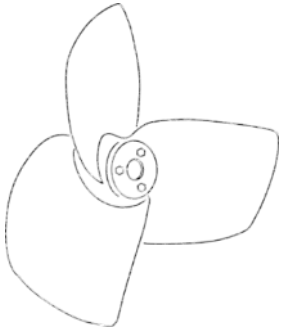
This is particularly clear in the area up to 0.5m radius from the agitator blade axis. Here the average flow velocity is more than 35% higher than without the ring.

Without Jetring



With Jetring





More advantages

- A long ring that extends over the gearbox and motor improves cooling, especially with large blade diameters.
- No vibrations were detected during operation. To check this, the motor frequency was increased to 70Hz. And in normal operation, external mechanical loads were applied.