



LIND JENSEN
HYDRAULIC

RAD-eye®

RAD-eye® eliminates side load on your hydraulic pitch cylinders



RAD-eye reduces maintenance of hydraulic pitch cylinders.

RAD-eye is a new, patented cylinder solution for all types of wind turbines, which drastically reduces wear and loads on the piston rod and the complete cylinder – and extends the cylinder lifetime. When side load is an issue.

Usually, the piston rod of the cylinder is only able to work in a linear motion, but the RAD-eye creates a parallel displacement of the piston head so it can absorb the radial forces by angular rotation.

At the same time, RAD-eye is a less costly option than other and more complex measures that could be used to avoid distortion of the pitch cylinders.

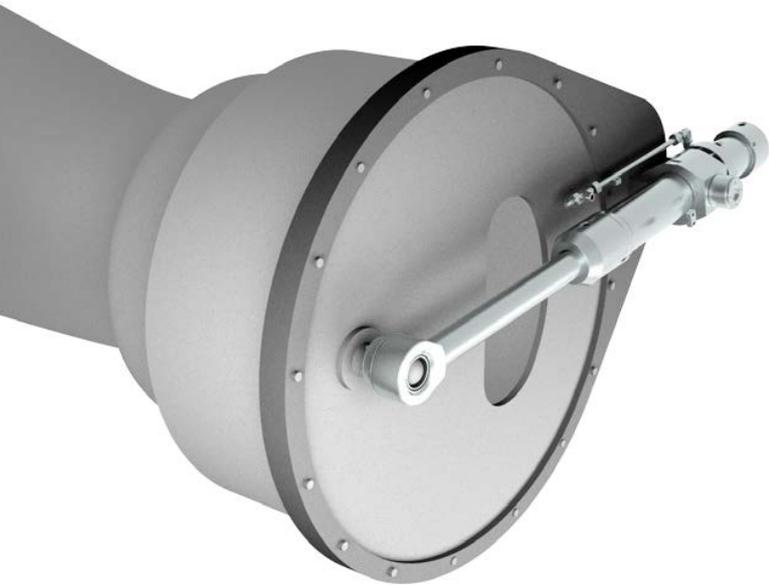
Therefore, by switching to the patented RAD-eye solution, it is possible to reduce the cost of maintenance, service and repairs – and extend the lifetime of the pitch cylinder significantly.



Wear and repairs of hydraulic pitch cylinders is reduced, and the cylinder lifetime is extended with RAD-eye – a new solution for all types of wind turbines.

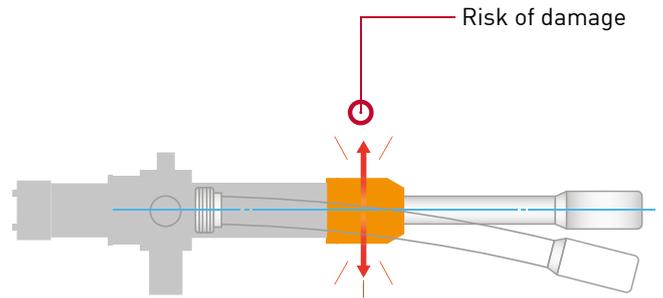
RAD-eye is a custom designed “eye” mounted on the hydraulic piston rod end to absorb the radial forces in the cylinder.



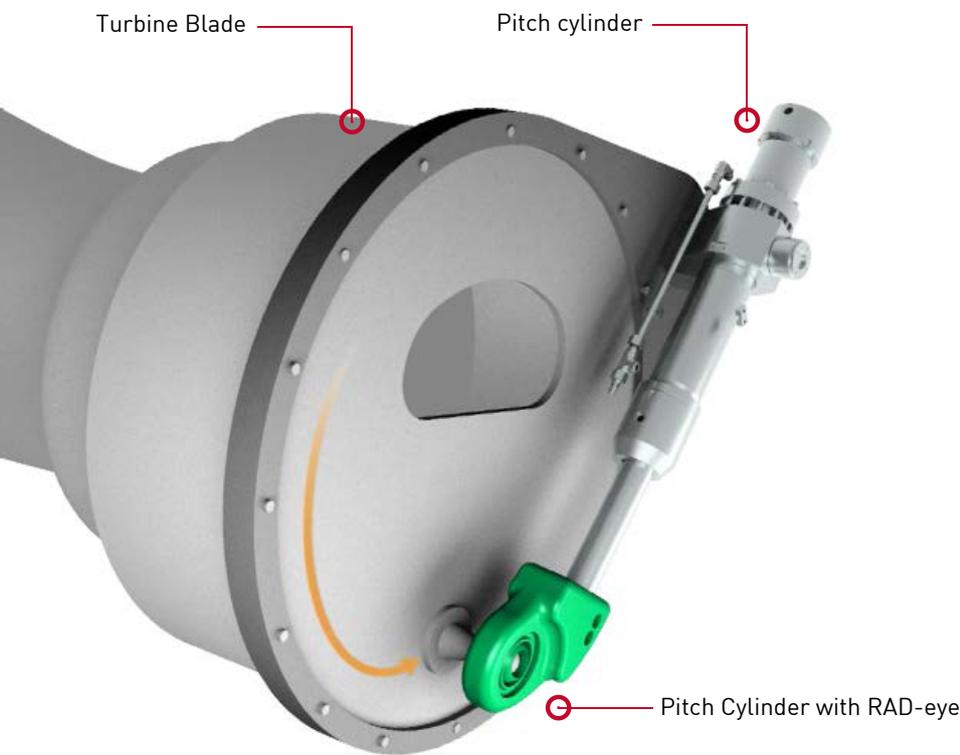


Conventional pitch cylinder

In a conventional pitch cylinder, the cylinder rod can only move in a linear direction – otherwise there is a risk of damage to the cylinder.



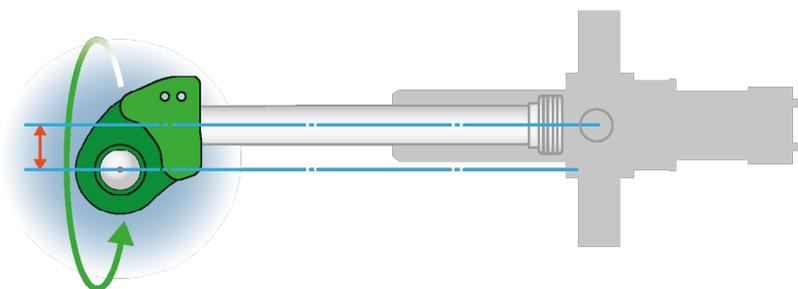
If the radial forces from the turbine blade create a deflection of the cylinder rod, there is a risk of damage to the stuffing box packing.



Pitch Cylinder with RAD-eye

A RAD-eye solution creates a parallel displacement of the piston head so it can absorb the radial forces by angular rotation – and thereby limit the risk of damage and wear.

The RAD-eye is mounted on the piston rod end – and enables the pitch cylinder to rotate and thereby absorb the radial force from the turbine blade.



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