

A man with a mustache and goatee, wearing a brown blazer over a maroon polo shirt, is smiling. He is positioned in front of a large blue geometric shape. In the background, a wind turbine is visible against a sky with soft, orange-tinted clouds.

# WESH/FT



# Discover all about SHIFT

SHIFT is ZF Wind Power's new modular platform. While using standardized building blocks, the platform offers more flexibility in terms of gearbox development and next generation turbine concepts, consequently reducing our customers' Levelized Cost of Energy.

## How does SHIFT add flexibility?

Existing gearboxes often require upgrades, which lead to new development cycles. So to stabilize product lifetime and to keep pace with the Levelized Cost of Energy reduction, SHIFT offers more flexibility in turbine performance upgrades. As a consequence gearbox development and investment costs are lower.

## Can SHIFT offer a longer lifetime?

With SHIFT we allow you to optimize the gearbox to site specific loads, or even mix different platform variants within one single wind site. This means that you can improve your project development costs, while increasing the product lifetime.

## How is SHIFT able to lower the cost?

With SHIFT, we take into account the requirements of various markets and offer a solution for multiple customers. This way, the initial high development cost is not at the expense of one single customer, but shared by many. And still the gearbox is scalable to each customer's needs.

## How does digitalization fit in the SHIFT platform?

The SHIFT platform integrates digital solutions in the shape of Intelligent Gearboxes that contain integrated sensors. These combine all needed data from gearbox manufacturing and digital performance, to convert into energy yield optimization and operational cost of wind farms reduction.

## How is SHIFT able to shorten the time to market?

In order to quickly anticipate to the market's needs, we offer pre-developed and validated upgradable designs. The SHIFT platform approach consequently allows you to follow future market trends closely and speed up the process.





**TOTAL MAX  
RATIO**  
up to **200**



$T_{\text{mech}}$   
**5500 to  
7000 kNm**



**LAUNCH  
2018**



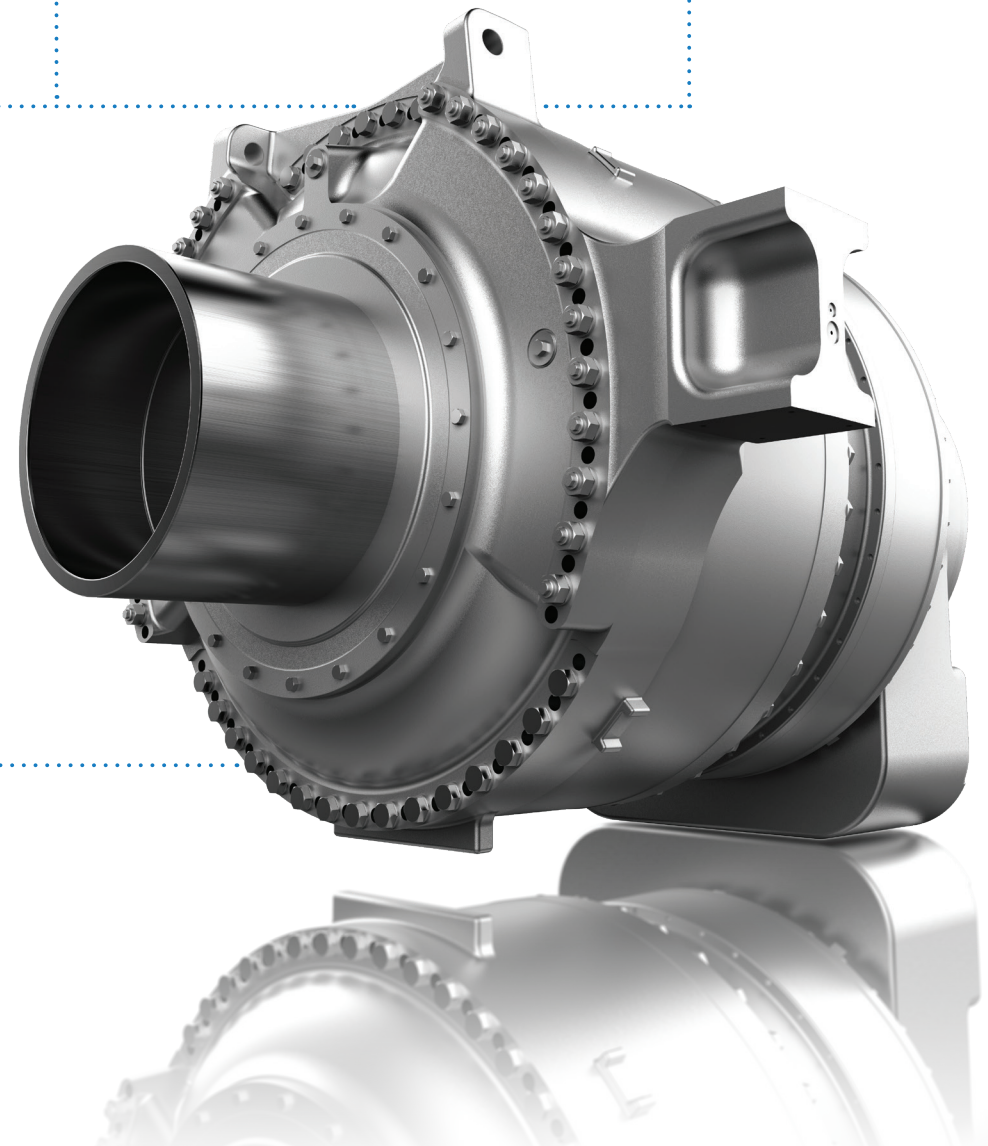
**GLOBAL  
AVAILABILITY**



**TORQUE  
DENSITY**  
**175 Nm/kg**

## SH/FT **6k**

SHIFT 6k is the most powerful gearbox platform developed for onshore wind turbines, while also covering targeted offshore markets. This platform has best in class torque density powering new generation wind turbines from 4.5MW up to 7MW, and rotor diameters of up to 180 meters. Significantly reducing the cost of energy.



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