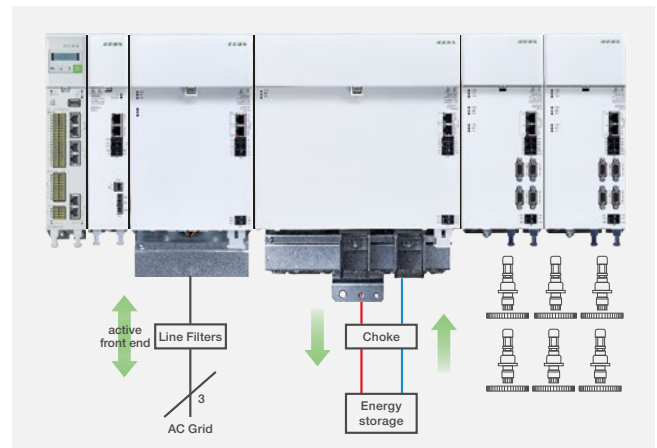


SmartYaw system solution

based on KeDrive D3

SmartYaw system solution

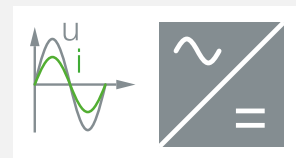
Our KemroX platform sets the standard for compactness in automation systems. In a very small footprint we offer a complete automation system solution consisting of controller, power supply unit, drives and energy management including an option for functional safety. A customized setup based on the standard product portfolio and components from our KeDrive D3 series provides an individual solution for your yaw application.



Highlights

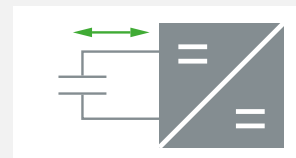
Active power supply units

- **Energy recovery** of regenerative energy into the AC grid
- **Controlled DC link voltage** for best drive utilization and mains independence
- Limitation of the **mains input power**
- Reduced mains current distortion (THD) due to **sinusoidal mains currents**



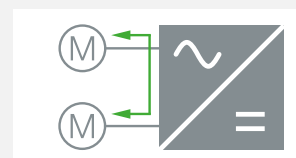
Controlled energy storage systems

- **Temporary storage** for regenerative energy
- Peak power reduction through "**peak shaving**"
- Bridging of mains failures (short time **UPS** for DC link)



Modular drive system

- **Optimal integration** into the KeDrive D3 drive system
- **Energy efficiency** due to energy exchange in the DC link
- **Capacity expansion** for storing short-term regenerative peaks
- Different **cooling concepts** possible



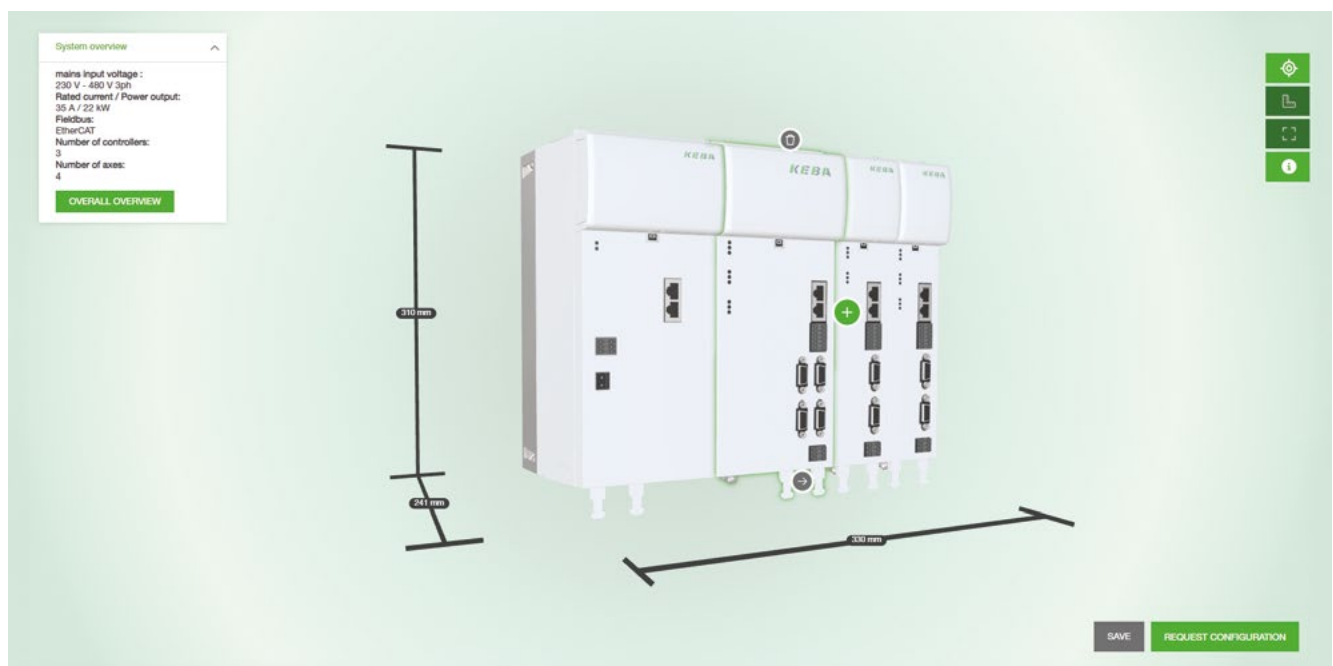
SmartYaw – system solution

Our SmartYaw system solution for your wind turbines is based on our highly reliable KeDrive D3 Multiaxis System which is in duty and approved in several industry branches worldwide. Use the KEBA expertise from research and application as well as the KeDrive D3 drive platform with active power supply and energy storage systems for your tailor-made system integrated in your wind turbine design.

- **Open and future-proof automation system**
based on the modular KemroX platform with connection to the turbine control via standard bus systems
- **Minimization of wear**
on mechanical components due to controlled operation

- **Highly scalable and adaptable system architecture**
for energy-efficient concepts in 4Q operation and energy management for independent power supply
- **Flexible TÜV certified safety solution**
STO & SBC as standard
Safe motion option acc. to SIL 3, PL e Kat. 4
- **Reducing the TCO**
of a wind turbine by integrating modern technologies for electric braking and smooth operation
- **Increasing the ROI**
of a wind turbine by agile and efficient operation to harvest the wind

Configure your SmartYaw system using the KeDrive D3 product configurator



KeDrive D3 product configurator
www.keba.com/kedrive-configurator



Please visit our website for further information and contact:
<https://www.keba.com/smartyaw>