

Increase your efficiency:

With the drone license package from ENERTRAG Operation



IN COOPERATION WITH



YOUR CONTACT TO US

There are more than 350,000 wind turbines worldwide. Drones can be used to inspect over a million rotor blades - a market with considerable potential.





Your key to efficient and precise inspection of wind turbines

Offer your customers the very latest technology in wind turbine inspections! With our innovative licence model for drone inspections of rotor blades including lightning protection measurement, you have the opportunity to revolutionise your services and set yourself apart from the competition. Our highly developed drone technology enables a fully automated inspection of the rotor blades of wind turbines. During the flight, a high-resolution camera mounted on the drone captures images from various angles.

These images can then be analysed in detail in order to precisely precisely identify any damage or wear and tear. In addition, our drone is equipped with a field strength measuring device that detects a voltage applied to the blade root by a high-voltage generator along the lightning protection line of the rotor blade. Interruptions or damage in the lightning protection cable can thus be precisely localised and documented.



	Module	Title	Description	SSL	ENERTRAG
Starter pack	1	Equipment	Support with the procurement of drone and hardware as well as assembly	Х	Х
	2a	Training	Training on the use of the 3DX™ Blade Platform software	Х	
	2b	Training	Training for carrying out measurements on the lightning protection system		Х
	3a	Licence	Licence Software for drone flight incl. standard report and error annotation	Х	
	3b	Licence	Licence to use the lightning protection measurement method		X
Additional services	4	Support	E-mail/telephone support (1st level SSL and 2nd level ENERTRAG Operation)	Х	Х
	5a	Reports	Creation of report templates according to customer requirements	Х	
	5b	Reports	Support with technical assessment of defects by inspection body		Х
	5c	Reports	Preparation of a report by the inspection body		Х
	6a	Data	Provision of raw data from inspection	Х	
	6b	Data	Use of 3DX™ Blade Platform for fleet evaluation	Х	







Optimise your wind field inspections with the smart LPS box - now available as a licence model!





About the LPS box

The LPS Box revolutionises processes in the wind field and offers service companies in the wind industry wind industry numerous advantages. The licensable model allows you to benefit from the latest technology worldwide and significantly simplifies your inspections. Our developers placed particular emphasis on a robust design, user-friendly operation and seamless integration into existing work processes. In order to optimise transport logistics, the hardware of the LPS box has been significantly reduced in size.

The specialised drones are equipped with a field strength meter for use in the field. By mounting the advanced field strength meter on the drone, the measurement accuracy is increased and deployment in the wind field is made easier for personnel. In addition, the new, smaller frequency converter is the centrepiece of the fully integrated LPS box, which combines all the necessary functions in one device.

Advantages and specifications

	Market advantage	Offer your customers one of the most advanced inspection methods on the market.
səf	Efficiency	Reduce inspection times and increase the precision of your analyses.
Advantages	Innovation	Position yourself as a pioneer in the wind industry and benefit from state-of-the-art the latest technology.
Adv	Customers	Increase the safety and reliability of your customers' wind turbines with precise and comprehensive inspections.
	Licence	Use our proven system and position yourself as a leading provider of rotor blade provider of rotor blade provider of rotor blade inspections including lightning protection measurement by drone.
	LPS box	HV generator, 6 kV, 10 mA, frequency converter, 60 Hz
	LPS adapter sets	Depending on requirements, consisting of ring adapter, flat adapter and test probe adapter.
Dimensions	Connections	Input voltage 230 V/50 Hz converted to 60 Hz, transfer to voltage generator. Output voltage with 6 kV/60 Hz from the voltage generator, termination of the of the measuring line.
Dime	Case material	Plastic (polypropylene)
	Weight LPS box	23 kg
	Dimensions (W/H/D)	approx. 52 cm / 46 cm / 31 cm





