



Applications

# WIND ENERGY

Our expertise for your success

# Custom Solutions by ARGO-HYTOS

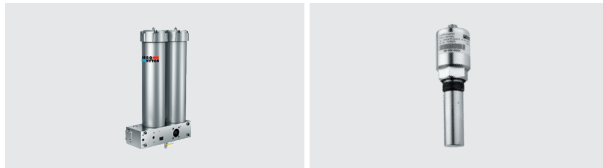
## Experience and know-how

ARGO-HYTOS has many years of experience and know-how in the hydraulic industry, specializing in the latest cutting-edge technologies. Working alongside the customer, we develop customized solutions and provide constant customer support worldwide. The customer's requirements are developed in a goal-oriented, innovative manner and are then implemented efficiently into their systems. ARGO-HYTOS' components and system solutions provide maximum plant safety with the least possible energy consumption.



## Compact design

ARGO-HYTOS provides the customer's application with suitable components or system solutions that feature a compact design and are made to last.



## Conserving natural resources

In addition to the economic benefits, protecting the environment and conserving natural resources form an important part of our corporate policy.



## Economics

ARGO-HYTOS fluid management systems increase availability and extend oil change intervals. As a result, ARGO-HYTOS customers benefit from low service costs and long maintenance intervals. Extending the lifetime of oils leads to an economic benefit – allowing for rapid returns on your investment.

## Ease of use

Informative customer support provided by our dedicated staff combined with constant communication for constant customer assistance are key factors of our continued success. In addition to our excellent customer service, our user-friendly products set us apart from the competition. Not only can our solutions for clean oil be integrated quickly and easily into existing systems, they also have a positive impact on the service life of components, as well as on hydraulic and lubrication fluids.

## Engineering

- › Design and development of components and systems for new plants
- › Consulting and products for condition monitoring
- › Systems engineering and oil service

**HYDRAULIC SYSTEMS** for rotor and azimuth brake



Check valves

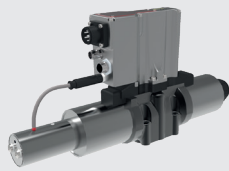


Ventilating filters



Return filters

**HYDRAULIC SYSTEMS** for pitch control



Proportional directional control valves



Cartridge directional valves

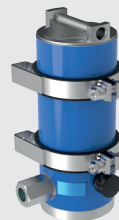


High pressure filters

**OIL SERVICE UNITS** for service or retro-fitting



FA Oil service unit



FNS Off-line filter



FNA Off-line filter unit

**LUBRICATION SYSTEMS** for main gear boxes



FNL1000 Low pressure filter



FNAW Lubrication oil filter system



FNLW Filter system

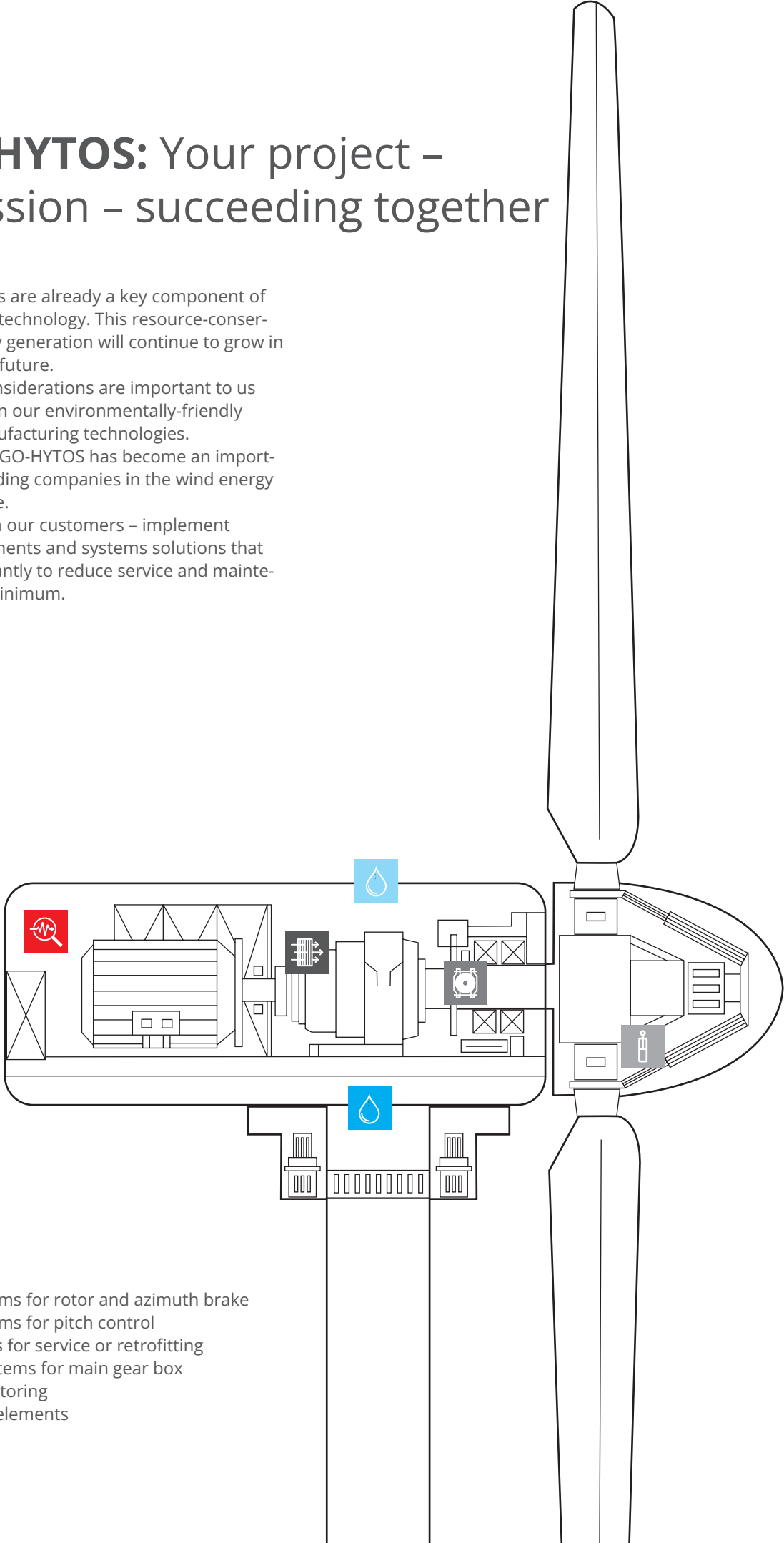
# ARGO-HYTOS: Your project – our passion – succeeding together

Wind energy plants are already a key component of renewable energy technology. This resource-conserving type of energy generation will continue to grow in importance in the future.

Environmental considerations are important to us and are reflected in our environmentally-friendly products and manufacturing technologies.

In recent years, ARGO-HYTOS has become an important supplier to leading companies in the wind energy industry worldwide.

We – together with our customers – implement innovative components and systems solutions that contribute significantly to reduce service and maintenance costs to a minimum.



- Hydraulic systems for rotor and azimuth brake
- Hydraulic systems for pitch control
- Oil service units for service or retrofitting
- Lubrication systems for main gear box
- Condition monitoring
- High end filter elements

## CONDITION MONITORING



OPCom  
Oil particle monitor

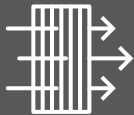


OPCom FerroS Wear  
sensor

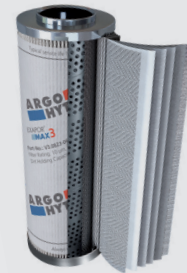


LubCos H<sub>2</sub>O+ II  
Oil condition sensor

## FILTER ELEMENTS



Replacement filter element  
EXAPOR®MAX 3



Multilayer structure  
EXAPOR®MAX 3

### Filter INFO

#### Replacement filter elements by ARGO-HYTOS

- › Lowest pressure loss
- › Excellent dirt holding capacity for long maintenance intervals
- › Avoidance of damage and downtime
- › Reduced maintenance and total cost of ownership (TCO)
- › Optimum protection of your machine's valuable components

The current generation of EXAPOR®MAX 3 elements guarantees maximum filter performance. By using filter layers with a gradient structure, we ensure a very low pressure drop in combination with a high dirt holding capacity. The layers are supported and protected by a patented hybrid fabric, which guarantees optimum in- and outflow. The protective cover is used for identification as an original spare part. It is flexible and can be individually printed, which significantly increases the recognition value.

Of course, ARGO-HYTOS also offers solutions for upgrading housings from other manufacturers with EXAPOR®MAX 3 technology.

# Consulting, development, production and maintenance – all under one roof

## Commitment – We're here for you!

As an owner-managed, medium-sized family company with over 1000 employees worldwide, ARGO-HYTOS has been serving its customers for over 75 years. With production companies in Germany, the Czech Republic, Poland, China and India as well as numerous own distribution and assembly companies, we are able to offer our customers local support, providing them with reliable contacts.

We are the right partner for your project! Our development and manufacturing expertise allows us to accompany a product throughout the process of its creation. From the conceptual phase to the individualized system solution, we work closely with our customers every step of the way.

For decades, ARGO-HYTOS has developed a relationship with its customers based on trust and continually strives to surpass their needs and expectations, validating the trust placed in us through quality and reliability.

## Innovation, competence, quality

We possess extensive development know-how based on the latest manufacturing technologies. We provide all products and process chains under one roof and support our customers in component integration, the development of new and innovative solutions as well as in the optimization of existing systems.

## Global presence – Customer satisfaction always and everywhere

ARGO-HYTOS is globally represented with numerous own sales companies. In addition, we collaborate with a network of skilled sales and service partners in all important core markets, ensuring proximity to the customer and a local presence. Our global network of specialists means that you always have a reliable partner at your side. This allows us to provide our customers with the best possible support – from the concept phase up to after-sales service!

## International

### ARGO-HYTOS worldwide

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You can find further sales partners worldwide online at [www.argo-hytos.com](http://www.argo-hytos.com)

## Wind Energy