www.argo-hytos.com

ARGO HYTOS
A Voith Company

Application

FORAGE HARVESTER

Our expertise for your success

Custom Solutions
by ARGO-HYTOS

The Challenge
The demands placed on modern forage harvesters in terms of working speed, chop quality, availability, durability, ease of operation and comfort are constantly increasing. For our development and production, this means constantly recombining decades of experience in the products and adding new functionalities. A deep understanding of applications and a very close cooperation with the machine manufacturer are the prerequisites for translating our experience into new solutions.
Through a wide variety of applications in different regions, we adapt modern forage harvesters to the respective market requirements. This leads to alternative solutions for one and the same function in the machine.

Your Custom Solution
ARGO-HYTOS offers a wide range of multiple compatible products in the fields of filtration, valve technology and sensor technology for the hydraulic task in your machine. We adapt the components or individual functional elements so that the function in your machine is realized as desired. The combination of valves, filters and sensors into subsystems leads to more compact functional units and often also to reduced assembly and piping costs. Our manufacturing expertise and considerable vertical range of manufacture enable us to respond quickly and flexibly to specific customer and market requirements.

Our Expertise
ARGO-HYTOS has been working with the leading forage harvester manufacturers worldwide for decades. In sensor, filter and valve technology, ARGO-HYTOS develops components, clever subsystems and innovative system solutions for forage harvesters in close cooperation with customers. Some examples are:

- Proportional axle or independent wheel suspension with position and damping control
- Brake release device
- Lifting and cracking adjustment device
- Knife grinding device
- Volume flow control for spout and discharge flap
- Volume flow control for attachments / working drives
- Filter systems from ventilating to suction, pressure, return and return-suction filters
- Safety filters and suction strainers

In addition to sensor technology for pressure, temperature, flow and position, oil condition sensor technology is increasingly gaining ground. Since the forage harvester is an important machine in the agricultural process chain of forage and energy production, flawless, uninterrupted operation is critical. The elements of data acquisition, transfer, interpretation and prediction regarding the oil and wear condition of the machine create added value for manufacturers and users.

WORKING HYDRAULICS

1 Knife grinding device

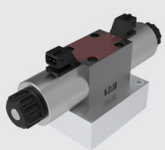
2 Brake release device

3 Spout and discharge flap control

4 Cracker adjustment

5 Hoist adjustment

6 Harvest header and attachment control



7 Rear connection control

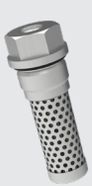
FILTRATION & TANK

1 Suction filter

2 High pressure safety filter

3 Return-suction filter

4 Filling and ventilating filter

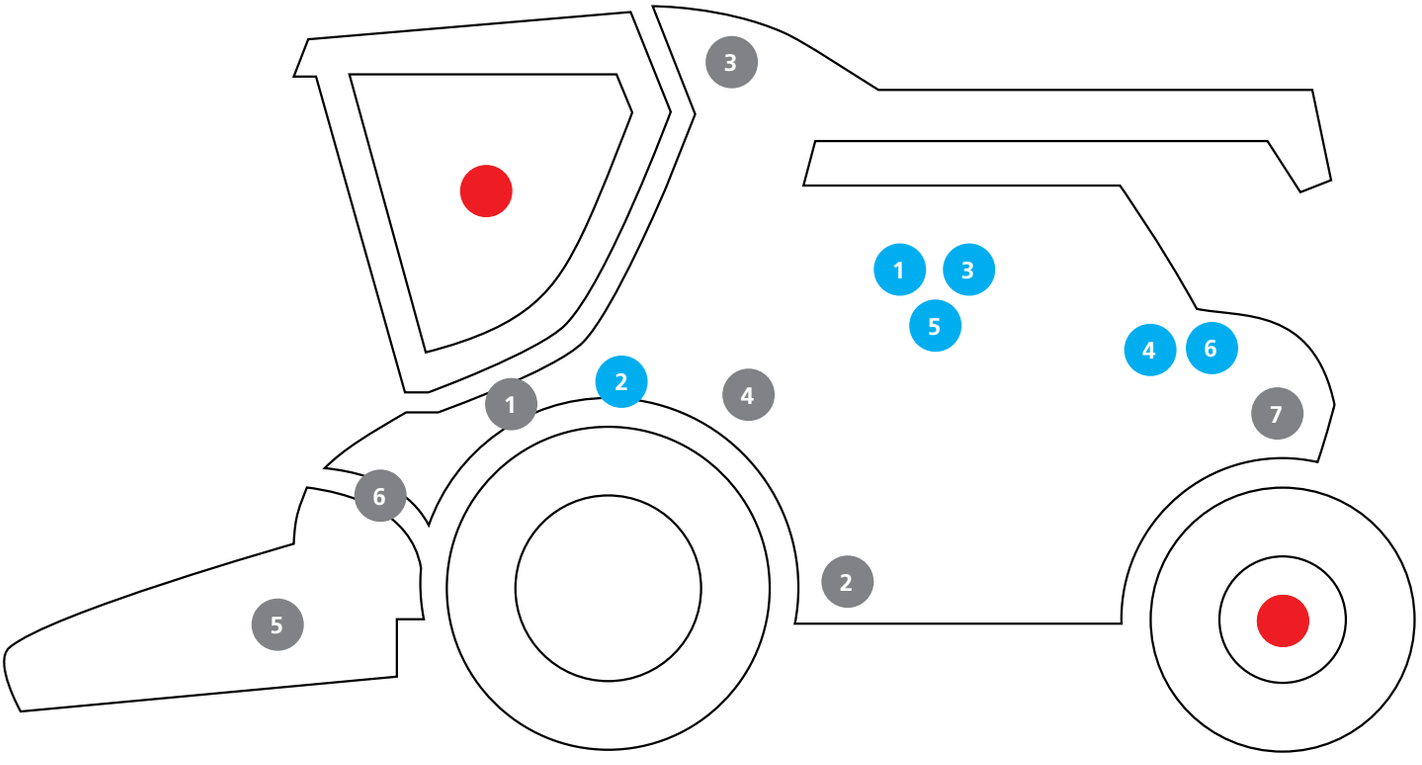


5 Cooler protection strainer

6 Hybrid tank with function integration

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

- You want to redesign, modernize or adapt your machine to a regional market – we have the system knowledge, the components and the project planning competence to help you realize it.
- You determine and define functionality – we provide possible solutions
- We combine local and central value-added shares in order to meet the highest requirements with regard to function safety, reliability and cost effectiveness.
- Our Applications Team, together with a given local entity and the development manager of the customer, supports projects from initial inquiry up to the start of series production. We maintain and observe highest internal standards in the processing of international projects in global core markets thanks to competent local contact persons and applications experts in our applications center.



Working hydraulics
Filtration & Tank
Suspension Systems

SUSPENSION SYSTEMS MHPS

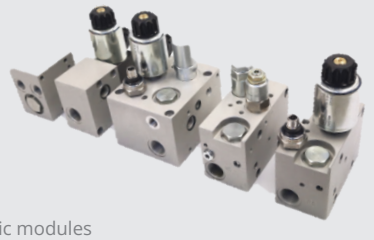
Modular
Hydro-Pneumatic
Suspension

Pressure sensor

Position sensor

Accumulator

Control unit (ECU)



Hydraulic modules

CONDITION MONITORING

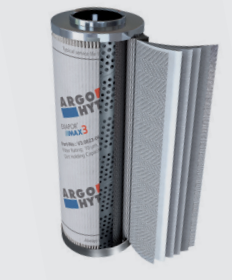
OPCom
Oil particle monitor

OPCom FerroS
Wear sensor

LubCos H_2Oplus 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

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You can find further sales partners worldwide online at www.argo-hytos.com

Forage Harvester