



Applications

TRACTORS

Our expertise for your success

Custom Solutions by ARGO-HYTOS

The Challenge

The demands posed on modern tractors regarding performance, uptime, ease of use and comfort keep increasing. For the development and design of valves, manifolds and filtration systems this means that ever new combinations must be found and new functionalities must be included. Decades of experience, a thorough understanding of the application and a very close collaboration with OEMs allow us to come up with solutions that are specifically tailored to meet the given requirements.



Your Custom Solution

ARGO-HYTOS offers a wide range of highly compatible filtration, valve and sensor products for your application. We adapt and modify components or individual function elements in such a way that the function in your machine is realized according to your wishes. We combine valve, filter and sensor technology to create subsystems and compact function units, which help you reduce assembly and piping costs. We are able to react quickly and flexibly to specific customer and market demands thanks to our considerable manufacturing expertise and level of in-house production.

Our Expertise

ARGO-HYTOS has been working with the leading tractor manufacturers for decades. We closely collaborate with our customers to develop components, clever subsystems and innovative system solutions, combining sensor, filtration and valve technology. Some examples are:

- › Manifolds for proportional clutch control with integrated filter
- › Shift and proportional gearbox controls
- › Proportional front axle suspension with position and damping control
- › Prop. leveling and suspension of the operator's cab
- › Suction screens for use in gearboxes
- › Combination filter systems made from composite material
- › Safety filters with flow monitoring

In addition to pressure, temperature and flow sensors, sensors for oil condition monitoring have become more important in recent years. Machine uptime is increased further. The collection, transfer and analysis of data present a significant benefit for manufacturers and operators in terms of predictive maintenance.



WORKING HYDRAULICS up to 320 bar



1 Central inlet section

2 Suction / return-suction filters

3 Front / pick-up hitch system manifold

4 Functional end plates

5 Pressure sensors

6 High-pressure safety filter / flow meter

TRANSMISSION up to 30 bar



1 Clutch control for PTOs

3 Suction screens and filters; options: built-in, in-tank mounting

2 Brake cooling

4 Wear sensor

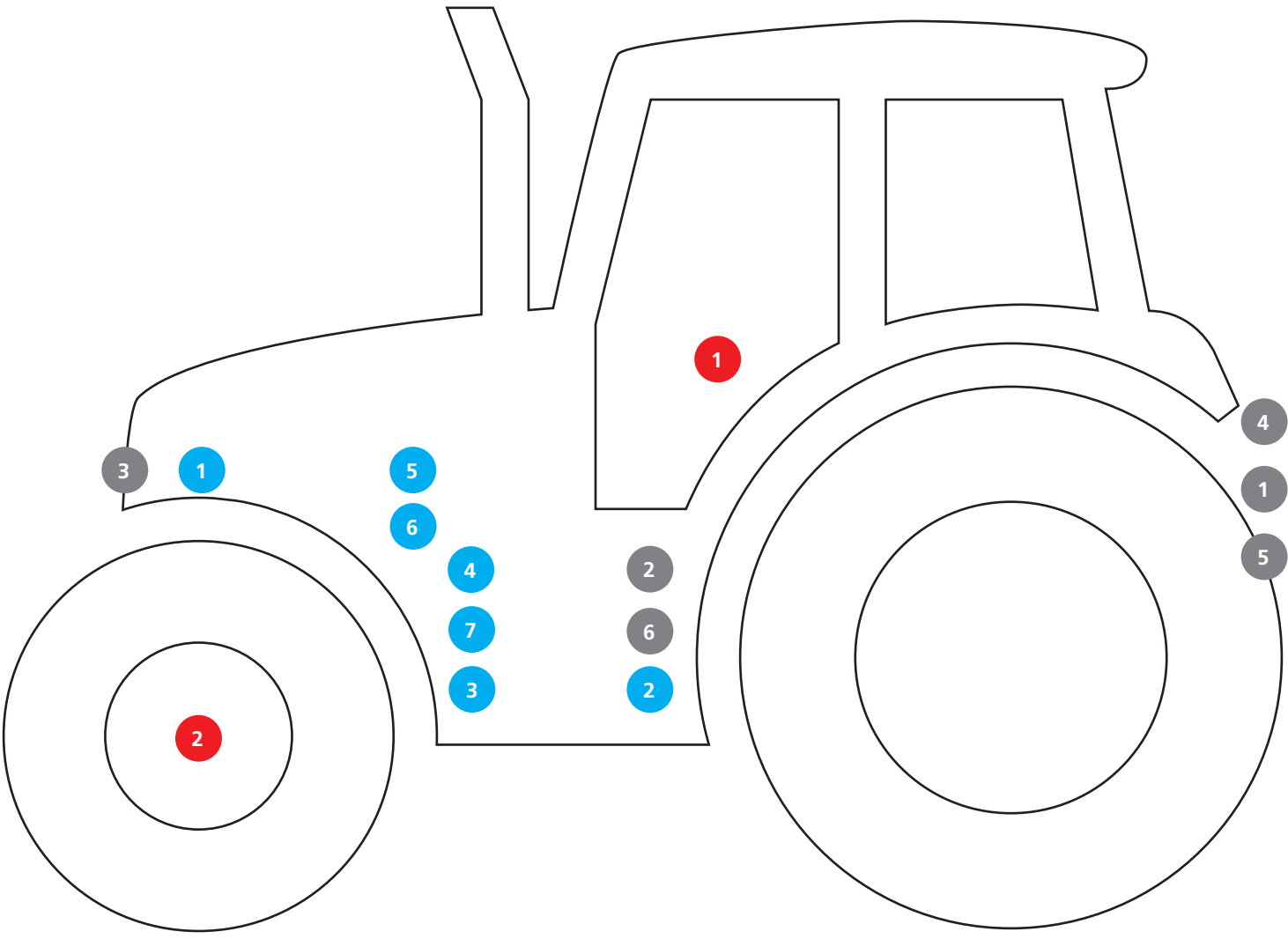
5 Power shift control

6 Gearbox control

7 Safety pressure functions

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 up to 320 bar
- Transmission up to 30 bar
- Suspension Systems

SUSPENSION SYSTEMS

MHPS Modular Hydro-Pneumatic Suspension



Pressure sensor



Position sensor



Control unit (ECU)

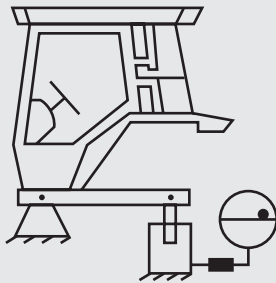


Accumulator



Hydraulic modules

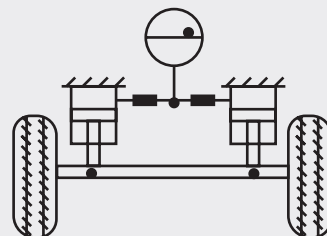
1 Cab Suspension



- › Reduced vibration
- › Automatic adaptation of damping to the given ground conditions
- › Complete system consisting of manifolds and electronics, incl. software
- › Comprehensive support – from design stage to commissioning
- › Modular and extendable

2 Axle Suspension

- › Reduced vibration
- › Variably adjustable spring rate for highest comfort independent of the load
- › Complete system consisting of manifolds and electronics, incl. software
- › Comprehensive support – from design stage to commissioning
- › modular and extendable



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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