

Welcome at ARGO-HYTOS

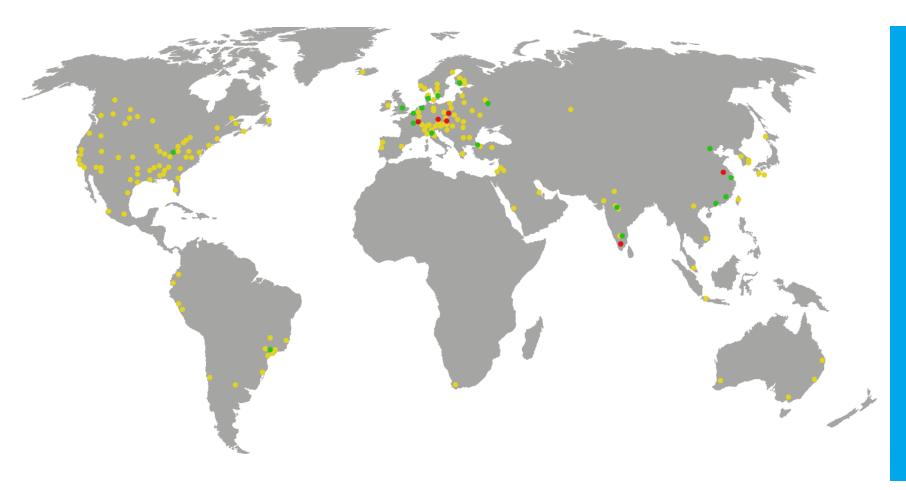
Company Presentation

01.11.2018

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ARGO-HYTOS

Worldwide



- Manufacturing and distribution companies
- ARGO-HYTOS distribution companies
- Distribution companies



Welcome to ARGO-HYTOS Germany

ARGO-HYTOS GMBH – Kraichtal-Menzingen, Germany





500 Employees

Manufacturing of filter elements, filtration systems, tank solutions



Welcome to ARGO-HYTOS Germany

Manufacturing – Kraichtal-Menzingen, Germany



Robotic Automation



Filter Element Production



Assembly



Welcome to ARGO-HYTOS Czech Republic

ARGO-HYTOS s.r.o. - Vrchlabí, Czech Republic





780 Employees

Manufacturing of valves, power packs, system solutions



Welcome to ARGO-HYTOS Czech Republic

Manufacturing - Vrchlabí, Czech Republic



Assembly and Testing



Parts Production



Quality



Welcome to ARGO-HYTOS India

ARGO-HYTOS PVT. LTD. - Coimbatore, India





100 Employees

Manufacturing of filter elements, filtration systems, manifolds and hydraulic solutions



Welcome to ARGO-HYTOS India

Manufacturing - Coimbatore, India



Element Production Hall



Manifold / Valve Assembly



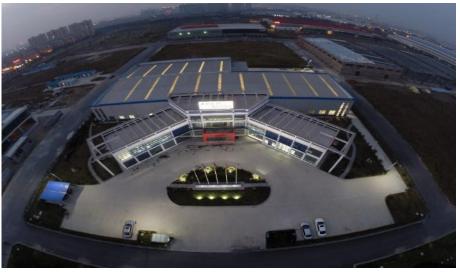
Warehouse & Packaging



Welcome to ARGO-HYTOS China

ARGO-HYTOS Yangzhou Ltd. - Yangzhou, China





60 Employees

Manufacturing of valves, manifolds, filter assemblies, power packs, pumps



Welcome to ARGO-HYTOS China

ARGO-HYTOS Yangzhou Ltd. - Yangzhou, China



Lightline Assembly



Manifold Machining



Pump Testing / Flushing



Examples of ARGO-HYTOS Distribution & Light Manufacturing Factories (ALMA)







Poland



Scandinavia



France



The Netherlands



Markets

Industries

We supply our product portfolio into the following markets

•	Agricultural Machinery	26 %
•	Construction Machinery	25 %
•	Material Handling	17 %
•	Other Mobile Hydraulics	15 %
•	Stationary Hydraulics	11 %
•	Other Hydraulic Applications	6 %



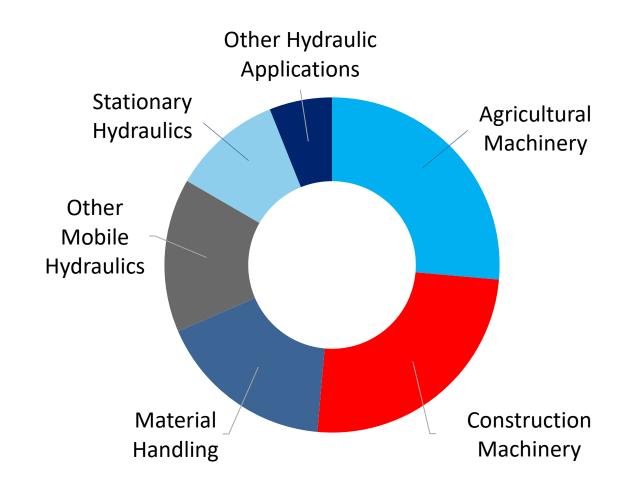














Trends in Hydraulics / Mobile Machinery

The Mega Trends: Selected Examples @ ARGO-HYTOS

- Energy Efficiency
- Light-Weight Construction
- Comfort Hydraulics
- Condition Monitoring



Energy Efficiency

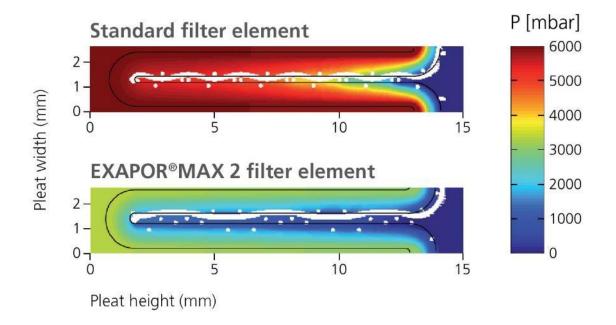
Example: Exapor® Max 2 Filter Elements

THE solution



Innovative hybrid support fabric for optimized power density:

increased dirt holding capacity in conjunction with reduction in pressure losses up to 50 %





Trends in Hydraulics / Mobile Machinery

The Mega Trends: Selected Examples @ ARGO-HYTOS

- Energy Efficiency
- Light-Weight Construction
- Comfort Hydraulics
- Condition Monitoring



Light-Weight Construction

Example: Composite Tank System Solution for Compact Loaders

- 30 I tank capacity
- Integration of
 - Quick-Connect (5 E/A)
 - Return filter
 - Oil level gauge
 - Breather
 - Filling filter
 - Return flow collection chamber







Trends in Hydraulics / Mobile Machinery

The Mega Trends: Selected Examples @ ARGO-HYTOS

- Energy Efficiency
- Light-Weight Construction
- Comfort Hydraulics
- Condition Monitoring



Comfort Hydraulics

Modular Hydro-Pneumatic Suspension - MHPS

Enhanced driving comfort

Variable setting of the undercarriage parameters

Reduced exposure of the driver to vibration

Reflecting EU guideline 2002/44/EG

Protection of machine and payload

Increased machine uptime

Modular Concept

- Functional prototypes on short notice
- Minimized customizing costs





Trends in Hydraulics / Mobile Machinery

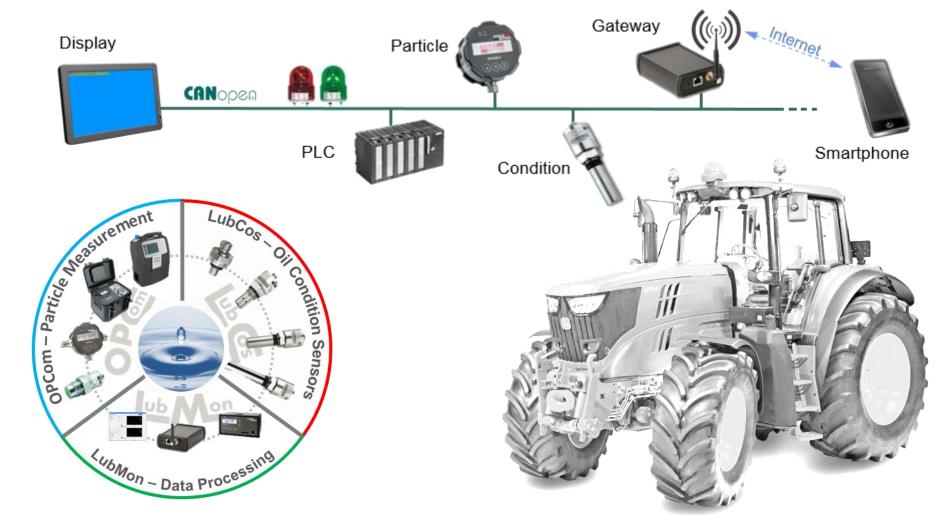
The Mega Trends: Selected Examples @ ARGO-HYTOS

- Energy Efficiency
- Light-Weight Construction
- Comfort Hydraulics
- Condition Monitoring



Condition Monitoring

Concept for Installation and Online Data Transfer





Standard Products – System Filters & Tank Solutions











Return Filters & Return-Suction Filters

Filter Cooling Systems

Pressure Filters & High Pressure Filters

Stainless Steel High Pressure Filters







Accessories



Oil Level Gauges & Dipsticks



Filter Elements



Tank Solutions



Standard Products – Valves and Power Packs







Hydraulic Integrated Circuits



Valves in Sandwich Plate Design



Hydraulic Power Units



Modular Valves: CETOP



Application Solutions with Controls



Pressure, Flow, Check, Motion Control Valves



Hydraulic Drives



Explosion Proof Valves



Connecting Plates, Manifolds, Accessories



Standard Products – Predictive Maintenance









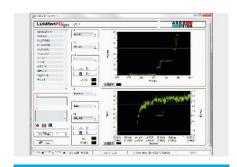
Portable Particle Counters

Stationary
Particle Monitors

Lubrication Condition Sensors

Signal Generator for Valve Control

Data Handling







Service



Standard Products – Fluid Management











Off-line Filters

Off-line Filter Units

Filter Cooling Systems

Oil Service Units

Dewatering Units







Service



Introduction of Segments

Fluid Management

Oil Service and Filtration

- Dehydration units
- Mobile and stationary off-line filtration units

Benefit

- Maintenance and service for hydraulic machines
- Filtration of contamination and wear particles
- Increased machine availability and productivity
- Extended machine service life
- Unnecessary oil changes are avoided, saving time and money











Applications

Overview

Agricultural Machinery

Municipal Services Equipment

Industry

Construction Machinery

Logistics

Wind Power



Overview

Seeders Fertilization Tractors Plows Tillage Grain Potato / Beet **Sprayers** Landscaping Loaders Harvester **Harvesters** Slurry / Muck **Transport Balers Shredders** Silage **Spreaders** Wagons



Tractors







Functional end plates



MHPS - Hydraulic suspension system with control electronics



Brakes cooling



Front / rear axle functions



Suction filters



Return filters built-in set



Return and suction filters



High pressure safety filters



Ventilating filters





Sprayers



Boom control



General functions



MHPS - Hydraulic suspension system with control electronics



Steering



Auxiliary functions



Suction filters



Return-suction filters



High-pressure filters



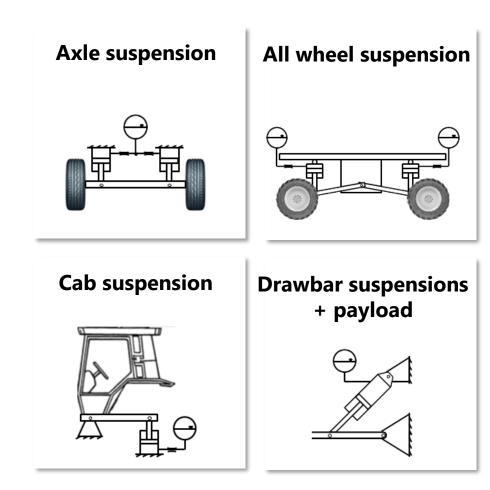
Breathers





Modular Hydro-Pneumatic Suspension - MHPS







Overview

Backhoe Graders Dozers Compactors Pipe Layers Loaders Skid Steer Milling Loaders **Scrapers Excavators Machines** Loaders Mini **UGD Mining Mining Trucks Pavers Tilt Rotators Vehicles Excavators**



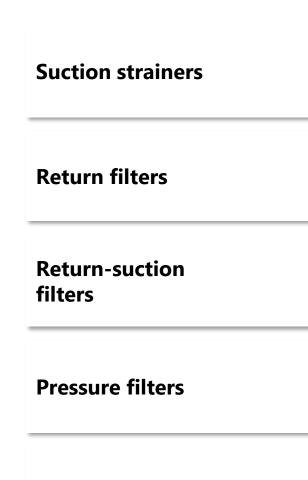
Road Milling Machines











Ventilating filters



Pavers



Auger, height adjustment



Hopper left / right



Vibration / tamper



Screed ext. / lift / lower



Crown adjustment



Suction strainers



Return filters in-line mounting



Return-suction filters



High pressure filters



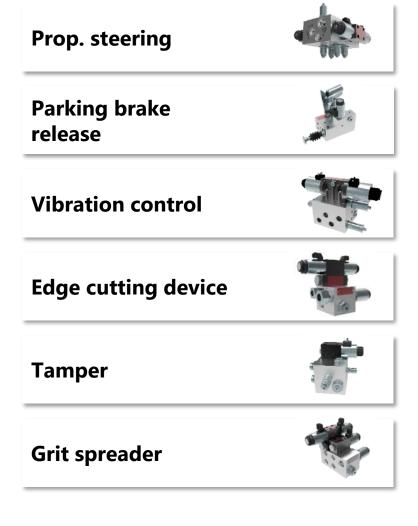
Ventilating filters





Compactors









Wheel Loaders







Suction strainers



Boom suspension



Return filters



Proportional pilot manifold



Return-suction filters



Fan drive



High pressure filters



Additional functions

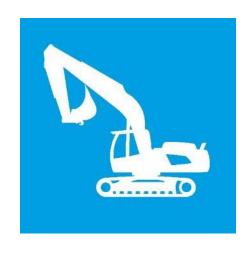


Ventilating filters





Excavators / Backhoe Loaders







Return filters tank-mounted



Prop. tilt rotator



Return-suction filters in-tank mounting



Tool clamping



Pressure filters in-line mounting



Prop. fan drive



High pressure filters



Cab suspension MHPS



Ventilating filters

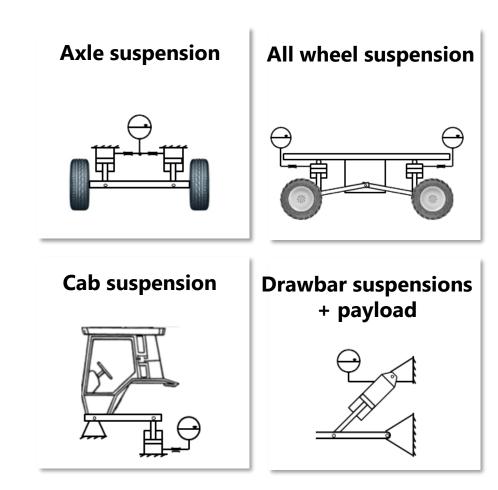




Applications – Construction Machinery

Modular Hydro-Pneumatic Suspension - MHPS

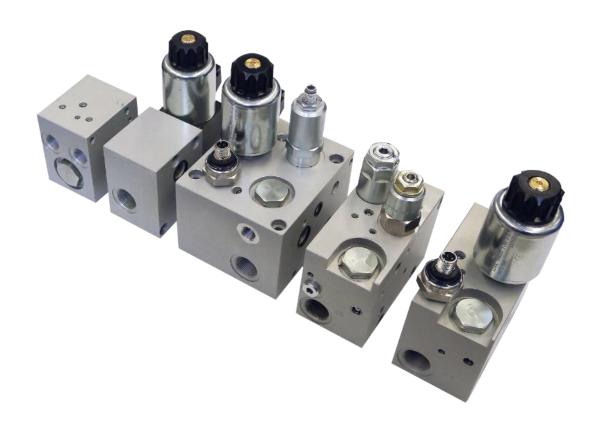






Applications – Construction Machinery

Modular Hydro-Pneumatic Suspension - MHPS



Cab suspension

Damping control

Axle suspension

Level control

All-wheel suspension

Preload control



Applications – Municipal Services Equipment

Overview

Road Sweepers Road Clearing Equipment

Municipal Services Trucks

Lawn and Turf
Care

Liquid Spreaders

Bulk Spreaders



Applications – Municipal Services Equipment

Road Sweepers







Vacuum cleaner control



Water pump control



Tank water release



Attachments



Suction filter in-line mounting



Return-suction filter tank-top mounting



Pressure filters in-line mounting



High pressure filter in-line mounting







Overview

Dock Levelers Forklift Trucks

Mobile Cranes

Straddle Carrier



Forklift Trucks



Customized manifold additional function



Tank module



Suction filter in-line mounting



Return filter



Pressure filter in-line mounting



High pressure filter in-line mounting

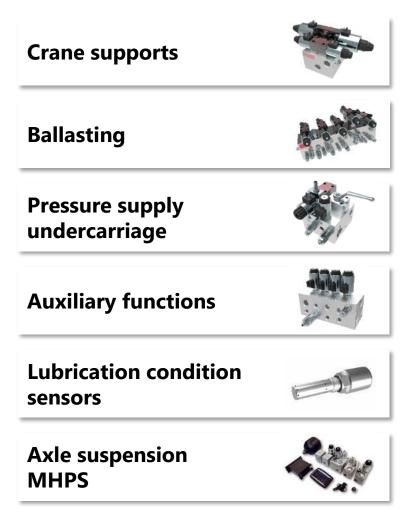






Mobile Cranes









Straddle Carriers

















Return filters



















Applications – Industry

Overview

Sawing Machines

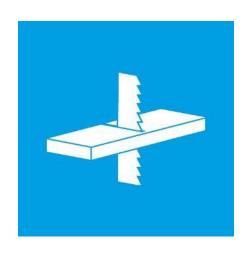
Boring / Milling Machines

CNC Machining Centers Injection Molding Machines



Applications – Industry

Sawing Machines







Customized manifolds



Band tensioning



Clamping pressure reduction device



Vice retraction, hydr. bundle-cutting attachment (top clamp)



Suction filters



Return and ventilating filters



High pressure filters

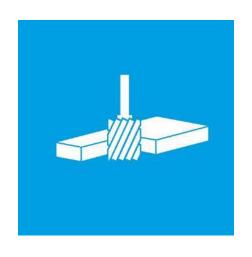






Applications – Industry

Boring / Milling Machines







Customized manifolds



HPU – e.g. clamping functions, lubrication



HPU – e.g. lifting / lowering device



Suction filters



Return and ventilating filters



High pressure filters







Applications – Wind Power

Overview

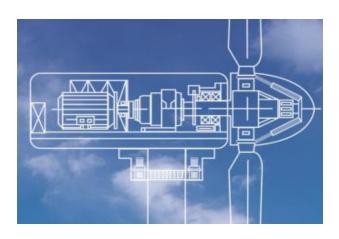
Pitch-Control & Hydraulic Brakes

Lubrication
Systems of
Main
Gearboxes



Applications – Wind Power

Components for Pitch-Control and Hydraulic Brakes









Switching & proportional valves



Oil service units, portable & stationary



Condition monitoring



Suction filters suction strainers



Return filters



Pressure filters



High pressure filters



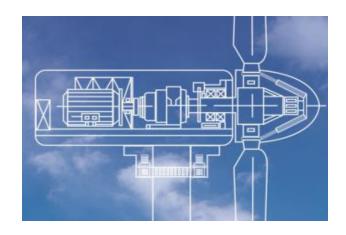
Clogging indicators





Applications – Wind Power

Components for Lubrication Systems of Main Gearboxes



Transmission oil filtration systems



Condition monitoring



Oil service units, portable & stationary



Complete filter solutions



Off-line filter units



Filter elements



Pressure filters



Desiccant breathers





Thank you for your attention!





































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