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Smart L.E.A.F. Lean Element Assembly Factory

Celebrate with us: 20 years of Particle Measurement Technology

FLASH

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Dear Reader,

When the next Hannover Messe Industry (HMI) opens its doors on April 1, 2019, the exhibition will also host the International Fluid Power Summit 2019 on 3 April, bringing together delegates from all over the world who will present the economic and technical achievements of Fluid Power in their respective countries. This event is open to the public and you are cordially invited!

For the German fluid power industry, 2018 was a very successful year, with an almost double-digit increase in turnover for hydraulics and a continuously positive outlook for 2019 with an increase of 3% for the entire year. Nevertheless, it is clear that we are in a cyclical industry and what goes up must come down eventually.

2019 is a year of important exhibitions – the HMI for industrial hydraulics, BAUMA in Munich (April) and Agritechnica (November), again in Hannover, for mobile hydraulics. As usual, we offer our customers a complete package including company tours in our European plants. Interested? Please let us know.

Digitization plays an important part in all the new products and systems that are going to be showcased and takes our innovative approach one step further. The highlight will definitely be our concept of smart and intelligent filtration that we want to discuss with our

customers during the exhibitions. We want to find out if this concept brings more value to our customers and the end users of mobile and industrial equipment.

ARGO-HYTOS is planning a new, digital filter element production

A new generation of our filter elements enters the market: Exapor®MAX 3, yet again with a more powerful performance in dirt holding capacity and differential pressure. The sustainable concept of ARGO-HYTOS guarantees a better service life performance and economic advantages in day-to-day use.

Our applications team will show you how to reach more functional value by designing ideal hydraulic solutions, using standard or close to standard components of ARGO-HYTOS.

On the component side, we will present to you a list of new valves that are closing gaps in our product portfolio and will offer you a wider range of possibilities to use ARGO-HYTOS high quality valve solutions.

On the filter side, new solutions for agricultural equipment offer compact integration of two filters in one, so the limited space for filters can be used in a smart way. Our Quick-Connect system additionally saves costs for customers.

In 2019, ARGO-HYTOS celebrates 20 years of presence in particle counting in hydraulic fluids: We introduced our flagship product PODS (Portable Oil Diagnostic System) at the Hannover Messe 20 years ago. Our latest model, OPCount (Optical Particle Counter), combines the benefits of 20 years' worth of experience.

In addition, ARGO-HYTOS went further to learn more about oil condition and developed a full range of sensors to give our customers more information about the condition of their fluids: We provide the gateway to predictive maintenance concepts for hydraulic fluids.

2019 will be an important year for ARGO-HYTOS. After many years of international expansion in China, India, USA, Brazil, Poland, France and Sweden, we want to commit ourselves to the production location in Germany. We are planning to invest into a new digital filter element production. You will find more detailed information on this in the new Flash magazine.

We are very pleased if you use the new digital media to follow ARGO-HYTOS, but hope that you won't miss to meet and talk to us during the exhibitions this year!

I personally invite you to come to ARGO-HYTOS and discuss with us how we can contribute to making your products better.

Have a safe trip!

Christian H. Kienzle

Christian H./Kienzle CEO ARGO-HYTOS Group

Smart L.E.A.F. – The Digital Factory at ARGO-HYTOS

Smart Lean Element Assembly Factory – the name says it all.



ARGO-HYTOS is making sustainable investments in its core business at the Kraichtal-Menzingen, Germany, site. Our high-performance filter elements are a benchmark in our core markets, and we want the manufacturing process of our products to be just as outstanding.

ARGO-HYTOS has been investing in networked manufacturing techniques and processes at its site in Kraichtal for the past nine years. It was our goal to develop manufacturing systems that can serve the ever-increasing demands of our customers for individuality and flexibility in the best possible way, even before the Industry 4.0 campaign was initiated by the German Federal Research Ministry in 2013. Consequently, we built competencies at the Menzingen facility to do specialized plant engineering for our core technologies in-house, to design and fully implement automation projects ourselves, as well as to develop and deploy next-generation technologies in manufacturing up to series maturity; this way, we are capable of realizing unique product solutions.

The new building in Menzingen will provide modern, ideal premises that allow for maximum interconnection between sophisticated manufacturing methods and digital possibilities.

Jörg Stech, Managing Director

"The use of digital information and applications covers the entire value chain and interconnects it, ultimately permeating it."







"Digital Factory" more than just a buzzword for ARGO-HYTOS.

The digital factory, as we define it, is a combination of methods and tools that are made available digitally to the user for a variety of purposes. In this, the use of digital information and applications covers the entire value chain and interconnects it, ultimately permeating it. In practice, what this means for the new filter element factory is, for instance, that a digital twin is created in production supplies; this twin digitally visualizes commodity flows. The user can align the path of automated guided vehicles via the digital twin, for example, and then transfer these changed parameters to the production system. It will no longer be necessary to go to great lengths to "teach" physical unloading stations, but modified demands can be implemented fast, efficiently and in an uncomplicated, highly frequent manner, as needed.

However, the "digital" in digital factory is not limited to the manufacturing and supply chain sectors; networking has made its way into all sectors of the factory. For instance, important system and plant components will be able to communicate directly with the PDM (product data management) system in the new plant. The process of a change request by the customer will be mapped in an automatic, sequential chain of information. When a product code is retrieved from the PDM system, other associated data are loaded automatically. The machine later uses these data to partly set itself up on its own. The benefits of these and other digital processes are obvious – efficiency, flexibility and an uncompromising realization of customer demands for economic, customized solutions in increasingly reduced batch sizes.

We are looking forward to the groundbreaking ceremony in the first quarter of 2019. You can follow the progress of construction digitally, of course – just scan our digital logo.



Smart L.E.A.F. Lean Element Assembly Factory

Functional Benefits

ARGO-HYTOS redefines the efficiency of construction machinery thanks to extensive application experience





Wolfgang Rocca, Head of Applications International

"By performing a detailed function analysis together with the customer, we are capable of determining the optimum number and configuration of valves needed for the given function." In hydraulic terms, the efficiency of construction machinery cannot be defined based on operating pressure and flow rate alone; instead, total cost, size, weight and especially a high level of reliability are decisive factors in designing hydraulic systems for mobile applications. Requirements can be extreme, as exemplified by pavers. For these machines, designed to maximize uptime, ARGO-HYTOS offers innovative hydraulic solutions with a focus on function; these solutions are the result of decades of application expertise.

Construction machinery manufacturers often have to find new approaches to keep up with ever-changing demands and to position themselves successfully in the market. A keen attention to details is vital in order to reach goals such as optimum use of energy, maximum uptime and reduced overall operating costs. Results can be improved decisively by finding the best possible way to realize the hydraulic functions of a given application, not only when designing new systems but also when analyzing and modifying existing hydraulic circuits.

Whether they are newly designed or redesigned, the demands posed on construction machinery are often extreme. These machines must be very rugged, efficient and long-lasting in order to achieve maximum performance despite variations in temperature and vibration. In addition, they must also function properly when operated by inexperienced persons.

All these criteria call for component manufacturers' extensive knowledge of and experience across different technologies. This is why ARGO-HYTOS has been closely collaborating with the leading construction machinery manufacturers for decades; the continuous development and enhancement of valve and sensor technology and filtration, as well as the clever combination of these to create subsystems, ensure that the customers' demands are met – for a multitude of construction machines.

The paver as a prime example

This is also true for highly demanding pavers. Uptime is key with these machines, due to the fact that – contrary to other construction machines – there is usually only one paver per construction site. Pavers are logistically integrated into an elaborate work concept and schedule involving numerous dump trucks or material transfer units, which supply the material for the road surface – pavers simply must function. If they do not, a downtime of just two hours would lead to several truckloads of asphalt becoming unusable, turning into special waste. It is utterly vital to prevent such costly damages. For this reason, the reliability of all the components installed is of highest priority; moreover, it should be possible to quickly, easily repair and service these components on site if problems do occur.





The innovative ARGO-HYTOS manifold is highly flexible: The number of actuators, as well as the functionality can be changed even in late stages of a project by making slight modifications. The manifold is made up of three sections: standard sandwich valves (left), central inlet section (center) and sandwich sections from the modular system (right).

Identify potential for improvement

ARGO-HYTOS components are used for operating all hydraulic functions of the tractor and the screed, except the closed circuit drives. There is a wide range of applications – from hopper wing, scraper, crown adjustment and auger to extending screed. ARGO-HYTOS is far more than a component manufacturer; thanks to years of application experience, the company plans, designs and produces complete, ready-to-use systems.

For both new projects and the enhancement of existing machinery, this combined expertise is the ideal basis for identifying potentials for improvement in existing applications and for developing new solutions with future-oriented technology. Combining parts and components in new ways creates various valve and filter assemblies, which in turn results in new, extended or enhanced features. Individual requirements concerning installation space, design, performance and costs can be fulfilled thanks to a comprehensive product portfolio based on standard and near standard parts. Any function required can be realized with compact systems or assembly units – this is an important fact for OEMs, considering the wide range of design options especially for pavers.

Moderation and energy conservation

Despite all the differences in standard and optional versions, actuators in mobile machinery can be classified into two categories: frequently or constantly operated actuators and temporarily operated actuators.

However, even constantly operated actuators do not require maximum pressure supply at all times. In order to avoid power and performance losses, load-sensing systems in combination with a variable displacement pump operate in a power-on-demand mode: the pump supplies exactly the flow that is needed for the active actuators at any given time; this way, energy consumption can be reduced significantly.

ARGO-HYTOS's guiding principle is 'Just enough' – no more components than are necessary to realize the required function – in designing complete systems. The focus is on function, not on individual components, such as a pressure relief valve. Because of this, hydraulic schematics and solutions may vary significantly, depending on whether size, weight or efficiency / energy efficiency are prioritized. Thanks to this approach, customers get systems that fully meet the specified requirements.



With a focus on function, ARGO-HYTOS developed a modular system in NG6. Individual systems can quickly be created with standard catalog products for flow rates of up to 80 l/min, an applicationspecific manifold with screw-in and bankable valves, and with sandwich valves in NG6.

Modularity for a wide range of functions

For faster implementation ARGO-HYTOS has developed a modular system in NG 6 – a manifold, ideally suited for pavers in the medium performance range. The combination of standard and application-specific parts makes the realization of different functions simpler. At the same time, the manifold guarantees a high degree of flexibility: both the number of actuators and the functionality itself can be changed late in the project through minor modifications or adjustments.

This innovative manifold is made up of three sections. In section 1, standard directional control valves serve as a simple throttle control. Since the actuating and auxiliary functions supplied here are only used sporadically, a load-sensing circuit is not necessary. Instead, savings in terms of cost, weight and space are emphasized. Section 2 is an application-specific manifold with screw-in and bankable valves; sandwich sections in NG 6 are the basis for section 3. These two sections work directly together, and sample and process the LS signal that controls the variable displacement pump.

Cleverly combined benefits

Switching between LS system and constant pressure system is controlled by means of a screw-in valve in the central inlet section. The pressures in the LS- and the constant pressure section can be adjusted separately. Moreover, it is possible to have either parallel operation of the two sides or a priority circuit for one of the two functional units. The central inlet section is designed or modified according to the specifics of the given application regarding size, port and connection arrangement, as well as position in the machine. Switching logic and functionalities are based on tried and tested concepts and solutions that have been implemented in mobile hydraulics for years.

Thanks to its operating principles and modular design, the manifold fulfills all requirements regarding reliability, energy efficiency, serviceability and compact design. Developed to meet the extremely high demands of pavers, the system can also be used in a variety of other construction and agricultural machines. The clever combination of screw-in, CETOP and sandwich valves with sensors and filtration results in compact functional units. This, in turn, results in reduced costs for mounting and tubing and in reliable, safe machines characterized by maximum uptime.

Full hydraulic control

ARGO-HYTOS supplies application-specific systems for high-performance construction machines such as pavers:

- > Manifolds for proportional control of motors and cylinders
- > Proportional speed control for tampers, vibration and conveyors
- Breathers, suction filters, pressure and high-pressure filters, as well as filter systems with integrated fluid collection
- > Sensors with data evaluation for oil condition monitoring

New Filter Element Series

EXAPOR[®]MAX 3: Standard redefined



ARGO HYTOS made it once again! The market-acclaimed filter element series EXAPOR®MAX 2 has been improved significantly once again. At the end of this year the successor, the new filter element generation EXAPOR® MAX 3, will be launched on the market. At the Hannover Messe in April, particularly interested customers will already have the opportunity to see and inspect prototypes of this new filter element series and to obtain information in advance on their individual application in advance. The new development of this premium filter element series mainly focused on the further improvement of technical performance data such as pressure loss and dirt holding capacity, but also on the redesign of the optical appearance with the printing of the new label system according to customer requirements.

Performance data

The new EXAPOR®MAX 3 filter element generation drastically improves the standards that have been set to date in the areas of pressure loss, dirt holding capacity and flow fatigue resistance. In doing so, the power density of a filter element significantly further increased. As a result, it will now be possible to switch far more frequently to smaller filter elements in the same application, thus saving costs and installation space at the customer's. The new series will be available in the finenesses 5 μ m, 10 μ m and 16 μ m.

Dirt holding capacity

The absolute dirt holding capacity and thus the service life could be further increased. This is due to a significantly improved specific dirt holding capacity from approx. 14 mg/cm² to >16 mg/cm².



This means an increase of impressive 15%. The benefits for the customer are obvious with a significantly improved service life and the resulting longer machine availability. The central question is: How was such an improvement possible?

Answer: Due to a new filter element bellows structure which was developed based on experience, simulatory design, as well as the use of extensive supplier know-how.

Application example



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EXAPOR[®]

The exact coordination of the individual filter materials plays a decisive role. For the first time, the newly developed filter bellows structures also use nonwoven materials with a multi-phase structure or so-called gradient structure. This involves a multiple gradation of the fineness in the filter bellows structure, which is not limited to the number of material layers. This prevents premature blocking of individual layers and ensures more uniform and above all better utilization of all nonwoven materials. This new, precise coordination of the individual layers leads to the aforementioned greatly improved dirt holding capacities and the associated longer service life in the customer application.

Pressure drop / flow fatigue strength

The precise matching of the new nonwoven materials to the well-proven hybrid supporting fabric used in the predecessor series also leads to a further significant reduction in pressure loss of more than 20%.



Comparison of pressure loss at filter element V3.0817

This hybrid support fabric has plastic wires in the load areas instead of normally used stainless steel wires and a special weaving technique. The advantages of this fabric, such as the excellent pleat channel formation for pressure loss optimization and the very good flow fatigue strength, are thus also guaranteed in the new filter element generation. Wire breaks during alternating loads (e.g. volume flow changes) in the later customer application, as they occur with pure stainless steel meshes, are therefore no longer an issue with the new premium EXAPOR®MAX 3 series. The advantage over replica elements from various competitors equipped with pure steel fabrics is clearly evident.



Simulation of pressure losses in a single fold.

Top: Conventional steel mesh. Below: Hybrid support fabric with optimized weave.





Variety of variants / individualization

As usual with ARGO-HYTOS, the variety of variants, also with the new premium series, is given. It makes no difference whether the desired size is a small filter element for a steering gear application or a large filter element for an injection-molding machine. Standard catalog version or individual sizes precisely matched to the installation space: a wide range of products is available.

Extensive empirical tests carried out at ARGO-HYTOS on various element sizes confirmed the high expectations placed on the new EXAPOR®MAX 3 filter element series and established a very good database for the planned start of series production. Even before the official start of series production, individual, customer-specific designs can be supplied with a high degree of reliability. A simple inquiry is sufficient.

Optical appearance, customer logo

In addition to the technical performance improvements, the optical appearance and thus the outer label area that can be designed and determined by the customer were also improved and their possibilities greatly expanded. With the help of a new printing technology, full-surface, colored imprints can now be realized at any time on customer request. There will only be restrictions in the print image for very small characters or details. In general, almost anything is possible with the new technology and this in a very good print quality and color strength. In addition to the customer logo and type designation, also operating conditions or installation instructions can be displayed on the label surface. An additional great added value for the customer which in the past was frequently asked for but could unfortunately not be served at this time.



Sven Siggelkow, Dipl. Ing (TH) Advanced Engineering Filtration and Process Technology

"With the new EXAPOR®MAX 3 filter element series, we have even exceeded the requirements we have set ourselves."

Summary

- Newly developed premium filter element series EXAPOR®MAX 3
- > Increase of dirt capacity by up to 15%
- Increase of the service life in the customer application
- > Reduction of pressure loss by up to 20%
- > Excellent flow change resistance
- > New optical appearance
- Individual customer labeling



Suction–Return Filter "2in1"



BRAND NEW & innovative

In tractors with a mixed resp. common oil circuit for transmission and power hydraulics, a suction filter is usually used to protect the pump and a return filter to ensure the oil cleanliness. In order to protect the system during a cold start, a coarse safety screen is often also installed in the suction line. The disadvantage of this design is that the two filters in the suction line have a negative effect on the cold start performance. In addition, the use of at least two filters results in high cost for the first fit as well as the spare parts costs.

By combining suction filter and return filter in one housing, the "2in1" filter from ARGO-HYTOS can improve the situation described above.

Characteristics

Nominal volume flow	140 l/min in the suction line		
	> 100 l/min in return line		
	> 40 l/min in tank line		
Filter fineness	16 µm(c) return filter		
	100 µm(c) suction filter		
	280 µm bypass protective screen		



Uli Seeger, Head of Product Management

"A new filter concept which combines functional improvements and cost reductions."







The housing of the new "2in1" filter is equipped with the Quick-Connect system. This allows quick and easy installation of the hoses to the filter housing. The customer can choose from more than 20 different connectors with different sizes and shapes.

This innovative filter concept is particularly suitable for hydraulic circuits such as those in small and medium-sized tractors.

Advantages

- > Excellent cold start performance
- > Lower costs for first fit
- > Reduction of maintenance points
- > Long service life due to use of EXAPOR®MAX 2
- > Innovative Quick-Connect hose connection system

Screw-in cartridge product range



ARGO-HYTOS offers solutions for many applications where flow rates up to 100 l/min or more are demanded. The current product range for screw-in cartridges consists of two valve series for the cavity sizes 3/4-16 UNF and 7/8-14 UNF. Here, the maximum flow rate is limited to 60 l/min, which is not enough for some applications we deal with. In order to be able to serve these applications as well, ARGO-HYTOS developed a new series of screw-in valves with flow rates up to 150 l/min.

Check valves SC1F-C2

- > Designed for 150 l/min and 350 bar
- > Cavity "C2" (1 1/16-12 UN)
- > Zinc-coated surfaces
- > High-pressure PU seal
- 10 million cycles in endurance testing, common for ARGO-HYTOS valves
- > Available in three cracking pressure rates (0, 1, 5 bar)

Directional control valves SD3E-C2

- > 2/2-way function, normally closed or normally open
- > Cavity "C2" (1 1/16-12 UN)
- > Designed for 150 l/min and 350 bar
- > Zinc-coated surfaces
- > High-pressure PU seal
- 10 million cycles in endurance testing, common for ARGO-HYTOS valves

As standard for all ARGO-HYTOS poppet-type valves, the SD3E-C2 offers an excellent performance regarding tightness in closed position. Thanks to a high-quality manufacturing process, the stable repeatability of results is ensured. In general, the SD3E-C2 provides an optimal solution for applications where high demands are placed on low leakage in load holding functions.



Jan Bjelka, Area Sales Manager

"The current product range for screw-in cartridges consists of two valve series for the cavity sizes 3/4-16 UNF and 7/8-14 UNF."



NEW Products

Fluid Motion Control

Product picture	Product description	Order key	Parameters	Symbol
((:(b)	Check valve, poppet-type, pilot to open	SC5H-BP3/H	Q _{max} 60 l/min (16 GPM) p _{max} 420 bar (6100 PSI)	
	2/2 Directional valve, solenoid operated, poppet type, piloted	SD3E-C2/H	Q _{max} 150 l/min (40 GPM) p _{max} 350 bar (5100 PSI)	
	Proportional directional control valve, with digital on-board electronics and internal feedback	PRM9-06	Q _{max} 30 l/min (8 GPM) p _{max} 350 bar (5100 PSI)	
	Explosion proof, auxiliary lever override for solenoid operated valves	RPERX3-06	Q _{max} 60 l/min (16 GPM) p _{max} 350 bar (5100 PSI)	
	Explosion proof proportional directional control valve	PRMX2-06	Q _{max} 28 l/min (7.4 GPM) p _{max} 350 bar (5100 PSI)	
	Explosion proof proportional directional control valve	PRMX8-06	Q _{max} 140 l/min (37 GPM) p _{max} 350 bar (5100 PSI)	

NEW Products

Fluid Motion Control

Product picture	Product description	Order key	Parameters	Symbol		
	Explosion proof proportional pressure control valve, reducing - relieving, direct-acting	PVRMX3-103	Q _{max} 40 l/min (11 GPM) p _{max} 90 bar (1300 PSI)			
	Explosion proof 4/3 proportional control valve, screw-in cartridge design	SD2PX-B4	Q _{max} 25 l/min (7 GPM) p _{max} 250 bar (3630 PSI)			
	4/2 and 4/3 Directional control valve, solenoid operated - spool position monitoring	RPE3-06*S	Q _{max} 80 l/min (21 GPM) p _{max} 350 bar (5100 PSI)			
	Maximum operating pressure for sensor 210 bar (3050 PSI)					
	4/2 and 4/3 Directional control valve, solenoid operated - spool position monitoring	RPE3-04*S	Q _{max} 30 l/min (8 GPM) p _{max} 320 bar (4600 PSI)	a AB b P T b		
	Maximum operating	pressure for se	ensor 210 bar (3050 PSI)			
Tit	Explosion proof, 4/2 and 4/3, directional control valve - spool position	RPEX3-06*S	Q _{max} 60 l/min (16 GPM) p _{max} 350 bar (5100 PSI)			
	monitoring			. X		
()	Check valve, ball type	SC1F-C2	Q _{max} 150 l/min (40 GPM) p _{max} 350 bar (5100 PSI)			

Celebrate with us: 20 years of Particle Measurement Technology

Since the sale of the first particle counter 20 years ago, the devices have continuously developed in terms of functionality and manageability. While only particle contamination could be measured with the first instruments, today's generation makes it possible to determine the water content of the oil sample. The user gets a quick overview of the oil condition. The time required for input was minimized by integrating a touch screen. This has the advantage of efficient input and fast switching between the individual menu items.



Christopher Schütz, Sales Engineer Condition Monitoring, Fluid Management & Electronics

"Due to the simple handling of the OPCount, reliable measurements can be achieved in a very short time."

Our "Thanks" to YOU:

We would like to celebrate the success of the last two decades of particle measurement technology with you. For this reason, customers can order the particle counter OPCount for the current special price of 9,999 Euro. Our sensor expert Christopher Schütz (c.schuetz@argo-hytos.com) will be happy to answer any questions you may have.



As with the previous versions PODS and PODS Pro, the measuring method is an optical method which works according to the principle of light extinction. In this type of measurement, a laser irradiates a measuring cell through which oil flows and hits a photodiode. Depending on the size of the particle, a lower intensity is detected. In contrast to other methods on the market, particles from 2µm to 68µm can be measured and shown on the display. The measurement results can also be stored in the internal memory or printed directly via the integrated printer and attached to the respective sample.

The OPCount offers the user two possibilities for sample measurement. As with the older models, the OPCount offers the possibility of bottle sample measurement. The measuring medium is sucked into the measuring cell via the internal pump and measured.

In contrast to the predecessor models, compressed air is no longer necessary.

In addition, the current model implements continuous particle measurement. For this purpose the particle counter can be integrated directly into the high-pressure line. The device is pressure stable up to 420 bar. The number of particles measured can be displayed in various cleanliness classes such as ISO 4406, NAS 1683 or GJB 420 A. Particularly noteworthy is the possibility that the sensors of the LubCos series can be connected directly to the particle counter. It is not necessary to adjust the particle counter for this purpose. The measured values are shown on the display of the device and stored in the internal memory. In order to be able to better compare the device generations, the most important properties are shown in the table above.

Who is... Jiří?



Jiří Jirka is a Quality Manager, located at ARGO-HYTOS Czech Republic. We would like to use this opportunity to introduce Jiří a bit more and ask him a few questions:

Jiří, since when have you been working at ARGO-HYTOS and what exactly are your tasks?

I became a member of the ARGO-HYTOS team in February 2015 and my current task is to lead our quality department, which currently has 27 members. Our team performs various activities such as incoming good inspections, process inspection, calibration & measurement. We also support other departments within the ARGO-HYTOS organization and we solve different quality problems which occur at our customers'. Another important task of our quality team is to develop current suppliers, same as to support our strategic purchasing in the search for new suppliers. Last but not least my colleagues recently have been participating in continuous improvement and lean activities.

What was the most incredible moment in your life?

The most impressive moments of my life so far have surely been the births of my two children. My daughter Anna was born 6 years ago and my son Jan is 4 years old, so the memories are still quite fresh.

Which dream has not yet been fulfilled?

Well, I do not have any big or specific dream, but I always do my best and also try to make people around me happy.

What do you like to do outside of the business?

I enjoy any activity with my family and also like to work around my house. In my free time I lead a local giant mountain rescue team, so sport activities like skiing, climbing, running, cycling are a logical part of my private life.

What is your motto in life?

Honestly, I do not have any special motto, but as I had a lot of sad moments during my life, I can distinguish between important and less important things. Furthermore, I always try to be polite and friendly to everybody.

Thank you very much Jiří, have a great time, fun and enjoy life the most – in your private life as well as at work.



Our Participation in Exhibitions 2019 at a **Glance**



SIMA 24.02.-28.02.2019 Paris, France



LANNOVER MESSE



* AGRISHOW *





SEPEM Toulouse 26.03.-28.03.2019 Toulouse, France



bauma 08.04.-14.04.2019 Munich, Germany

Agrishow 29.04.-03.05.2019 Ribeirão Preto, Brazil

Metalloobrabotka 27.05.-31.05.2019 Moskau, Russia

ICUEE 01.10.-03.10.2019 Louisville, KY, USA

SEPEM Angers 08.10.-10.10.2019 Angers, France





中国国际农业机械展览会





China Windpower 22.10.-24.10.2019 Peking, China

PTC 23.10.-26.10.2019 Shanghai, China

CIAME 26.10.-28.10.2019 Qingdao, China

Agritechnica 10.11.-16.11.2019 Hanover, Germany

ExCon India 10.12.-14.12.2019 Bangalore, India

Come to visit us at our exhibition booths. We are looking forward to seeing you.

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Valves Explosion Proof Valves Solenoid Systems System Solutions Manifolds Power Packs Hydraulic Drives Filtration Tank Solutions Fluid Management Sensors Measurement





We produce fluid power solutions

Innovations and intelligent system solutions combined with flexibility and productivity – ARGO-HYTOS sets new standards in all areas of fluid power technology.

We make your products better. Worldwide.

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