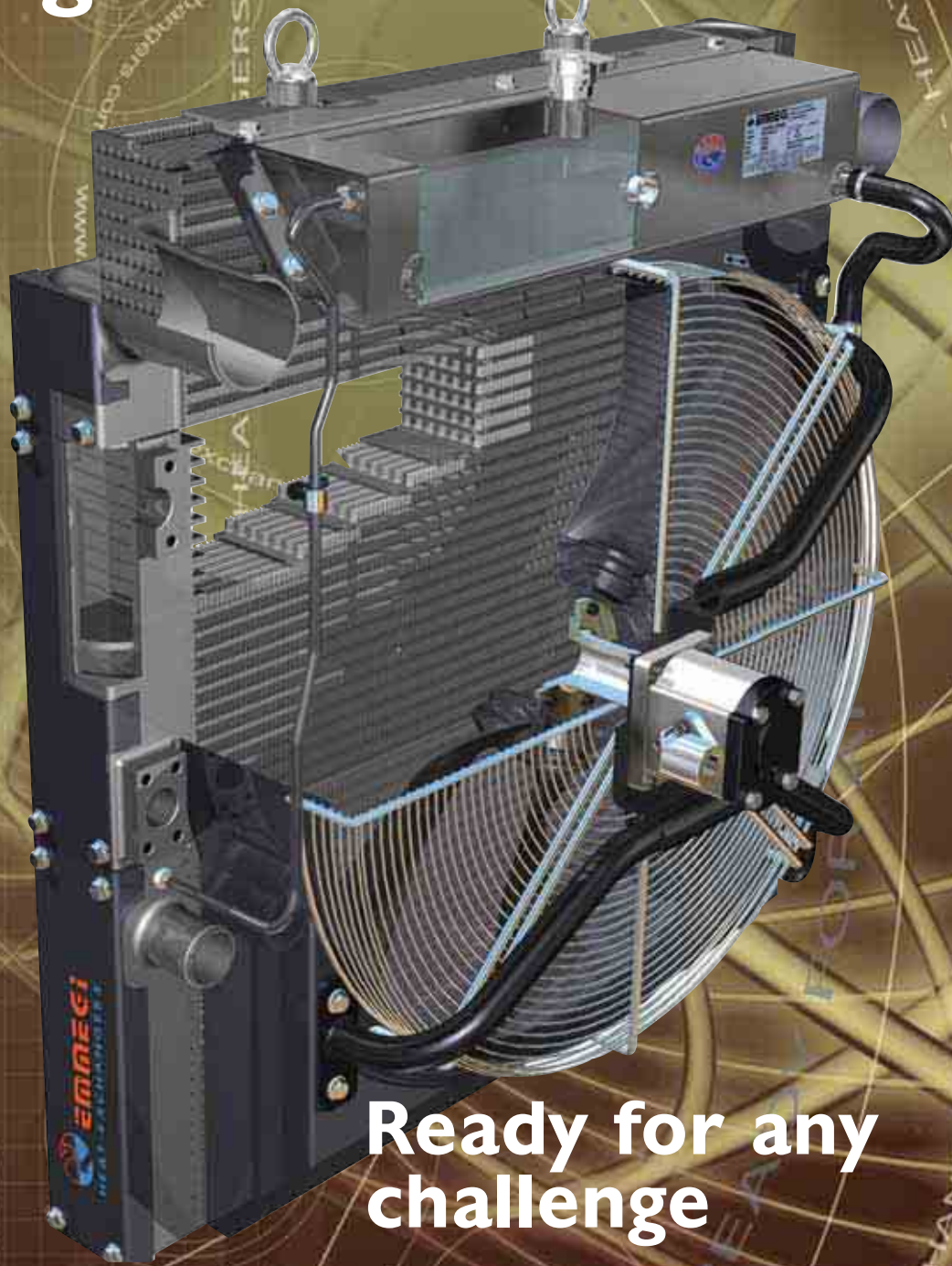


Advanced Technology, Engineered Solutions



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DESIGN AND MANUFACTURE OF HEAT EXCHANGERS

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2 EXHIBITIONS WHERE INNOVATION MEETS INDUSTRY

Marco Chiara

Technology Exhibitions Week brings together Fluidtrans Compomac, Bias and Mechanical Power



USEFUL ADDRESSES

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Transmission & Motion Control. Engineers, technicians, managers, principals will meet at fieramilano - Rho from 4 to 7 May. Lots of concurrent initiatives.

9 NEW PRODUCTS

An insight into what is on offer from Italian component manufacturers at Bauma, Fluidtrans Compomac and Hannover Messe.



ON THE COVER
Italian firms within the industrial components industry chose *Progettare International* to showcase what they have to offer



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WHERE INNOVATION MEETS INDUSTRY

TECHNOLOGY EXHIBITIONS WEEK BRINGS TOGETHER FLUIDTRANS COMPOMAC, BIAS AND MECHANICAL POWER TRANSMISSION & MOTION CONTROL. ENGINEERS, TECHNICIANS, MANAGERS, PRINCIPALS WILL MEET AT FIERAMILANO-RHO FROM 4 TO 7 MAY. LOTS OF CONCURRENT INITIATIVES

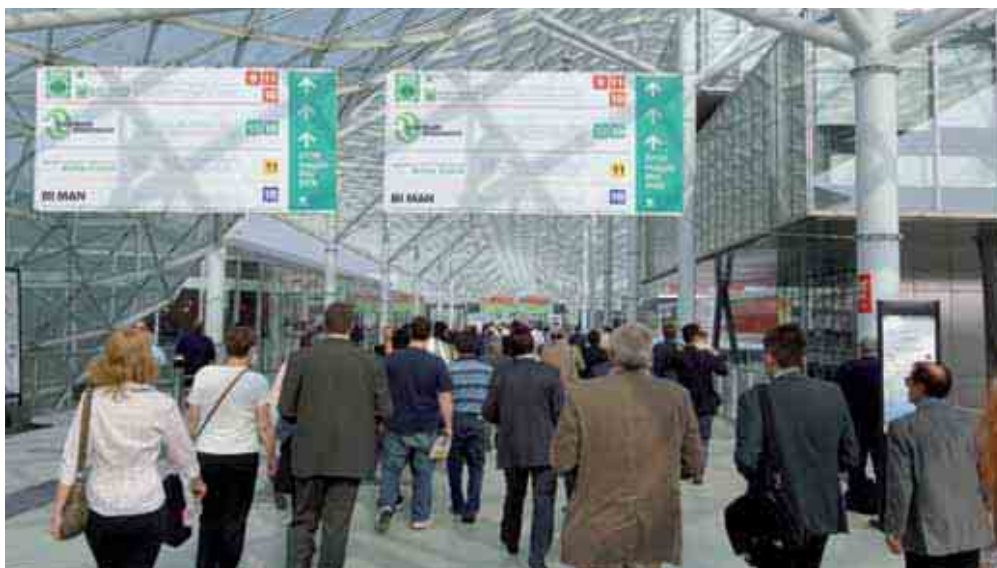


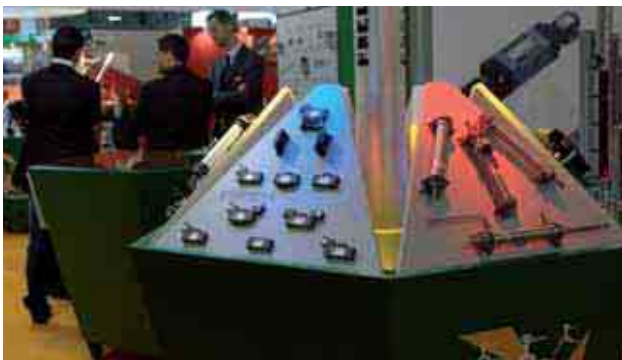
An opportunity to meet and share views, to keep oneself professionally informed, evaluate new technologies and do business as well as to underline the importance of investing in innovation. All this is offered by Technology Exhibitions Week, an event which will be held at Fieramilano-Rho from 4 to 7 May 2010. It brings together Bias, biennial international exhibition on automation, instrumentation, microelectronics and ICT for industry; Fluidtrans Compomac, biennial international exhibition on fluid power transmission and mechatronics and Mechanical Power Transmission & Motion Control, biennial international exhibition on mechanical transmissions, motion control and mechatronics. Investing in innovation is a winning strategy, which companies may adopt to be competitive on the market, deliver a better value added to their customers and – in the short term – improve their revenues. For four days Milan will gather managers, technicians, engineers, manufacturers and purchase managers offering them an arena where to interact and verify the innovations on the

market as well as to keep professionally informed and evaluate the most efficient and performing solutions to invest in and be thus ready to grab the recovery. This is a major appointment for the domestic and international business and engineering communities.

TEW offers an opportunity to gather the products and solutions developed for the main industrial sectors in a highly specialised context where people can meet and share the know-how of experts coming from both industry and the scientific and academic world. Here they can evaluate the most updated solutions for their specific sectors, from automotive to mechanics, from food and energy to earth moving machinery, chemicals and petrochemicals. Technologically advanced solutions offer industry superior performance, reliability, safety and energy saving.

The three TEW exhibitions are concurrently held with Xylexpo, the biennial world exhibition dedicated to woodworking technologies and furniture supplies, which will take place in the adjoining halls thus enabling trade





visitors to optimize returns on time and cost of their business journey. Already experimented in 2008, this team-up encourages a flux of qualified visitors from one of the main application sector of the solutions showcased at TEW.

Themed islands

In order to efficiently deliver know-how, TEW 2010 provides themed islands where visitors can meet whereas specific issues are subject to in-depth examination thanks to the presence of the main industrial companies, trade associations and research centres. Alongside traditional exhibits, the islands will feature short learning sessions throughout the day on key issues, such as:

- "Innovation for industry", focusing on innovation and projects in mechatronics
- Test & Measurement and the challenges of industrial instrumentation in production and lab
- Energy saving and efficiency, with in-depth surveys on components, techniques, systems for energy efficiency in production, complete solutions in automation and electronics, mechatronics and fluid power.

The themed islands are areas where visitors can access technological innovation for a specific field and have the opportunity to share know-how not only with technicians but also with researchers.

Besides the focused sessions at the islands, the shows feature conferences and workshops organized in co-operation with the main trade associations.

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BAUMA 2010: ANOTHER RECORD YEAR

Considering the high number of exhibitors, Bauma 2010, 29th international fair for construction machinery, building material machines, mining machines, construction vehicles and construction equipment, should be another record edition. More than 3,000 exhibitors are expected to participate thanks to temporary pavillions in the open-area site, bringing the exhibiting space to more than 540 thousand square meters, but also thanks to new collective booths and to the different exhibitors' requirements in terms of surface (Bauma 2007 gathered 3002 exhibitors from 49 countries). Georg Moller, exhibition manager, stated: «We



are very pleased with the interest shown by chinese, turkish and especially indian exhibitors, since India is the Partner Country of Bauma 2010. In some cases, the demand for exhibition space from these countries doubled with respect to 2007. Also european exhibitors, mainly from Italy, Great Britain and the Netherlands, will rank among the most important international countries in Munich».

In 2007 Bauma attracted over 500 million visitors from 191 countries, totalling a record number of 155,000 international operators: more than 132 thousand visitors came from European countries, around 11 thousand from Americas and more than 16 thousand from the Asian region.

Being held every three years, apparently Bauma keeps the pace with the innovations in the field.

Aignep

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Aignep new plant, with a covered surface of 12.000 m².

With more than 30 years of experience in the pneumatics sector, Aignep is a leader in the design and manufacture of components for compressed air. The company's rising place in the industry is a testament to the tenacity, hard work, and committed investment of the Bugatti family.

Today, Aignep is a company to be reckoned with as evidenced by its 150 employees working at 2 production sites in Italy and 3 foreign subsidiaries (Alpha Technologies in the US, Aignep Engineers in India, and Aignep Iberica in Spain). In 2008, the company logged an impressive growth of 16%, with estimated sales of € 30 million and exports reaching 60% of its overall revenue. The brand is extremely well-recognized both in Italy, thanks to an efficient

- Coalescing filters T015 and T400. The T015 model is specifically designed to absorb and remove microscopic contaminants (to 0.01 µm). Its unique coalescing microfiber cartridge traps liquid particles from the air and transforms them into larger microdrops.

The force of gravity causes these drops to fall onto the floor of the filter, from which they can be removed semi-automatically. To preserve the cartridge, and thus the coalescing filter, we recommend installing a 5 µm filter ahead or use the new model T400, which anticipates the FIL+FC combination.

- 70000 series. The 70000 series of nickel-plated brass fittings was developed for the needs of the food and beverage industry. The brass TEA components and the FKM food-grade gasket conform to the NSF61 standard. Technical data: maximum functional pressure: 20 bar, vacuum resistance, from -20 °C to +120 °C, wide compatibility with commercial tubing.

- INFINITY ø110 mm. The compressed air distribution system, INFINITY ø110 mm, grows in size with the tube and fitting of 110 mm diameter. The fittings are made of die-cast aluminum, rather than brass, providing a light weight despite a larger size. The fittings maintain their characteristic "push-in" automatic connection with the tube thanks to the unique gripping flange. The simple



The new series X cylinder.

sales network, and in over 60 countries worldwide, where it is supported by its team of trusted distributors.

The products and services that Aignep provides conserve time and costs of the production cycle. The high level of automation remains one of the principle areas for guaranteed quality and security. The product range includes 10 large categories: automatic push-in fittings (series 55000 [plastic], 50000 [plastic-brass], 57000 [brass], 60000 [stainless steel]), push-on fittings (series 1000), accessories, miniature ball valves (series GHILUX), double compression cone fittings (series 9000-10000-13000), function and flow regulators, quick couplings, filters (FRL), pneumatic filters and compressed air distribution systems (INFINITY).

Furthermore, we introduce the following new products:



The new 70000 series certified NSF for the food and beverage industry.

connection and the lack of additional fittings or tools required renders the INFINITY ø110 mm system the fastest on the market.

«Outstanding solutions for compressed air» says managing director Graziano Bugatti, «that we guarantee with a high level of expertise, quality, service and customer satisfaction».

Move the air power!

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www.aignep.com

Qualitäts-Messung
München - Germany

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2010



**NEW
X SERIE**



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Camozzi

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The Camozzi production facility at Polpenazze (BS) is equipped with a highly automated system for the production of cylinders and electric valves.

Established in 1964, Camozzi Spa (Brescia) has become Italy's leading company for pneumatic components for industrial automation. The company's ever-increasing success is attributable to its commitment to quality and to its wide range of products. These include valves, electric valves, cylinders, systems for the treatment of compressed air, fittings, and vacuum components, which together are capable of comprehensively meeting the various demands of industrial automation. Rapid and efficient service, an extensive

structure and function.

The initiative functions alongside the Camozzi Innovation System (CIS), which since 2006 has been inspired by the philosophy of the Toyota Production System, also known as Lean Manufacturing. This method of process management utilizes fewer resources compared to mass production, as it places greater responsibility on the individuals involved, since "there's no one more able to problem solve than those who work the line". The project involves every company division and focuses primarily on human resource development, product performance, new product development, waste reduction, continued maximization of customer service and rapid delivery. Camozzi has always been highly dedicated to research and development. There is no clearer demonstration of this commitment than the C.R.C - Camozzi Research Center. Established in 2003, its mission is to track new technologies and trends in developing industrial processes for those that might be of interest to the company. In further support of this goal, Camozzi also partners with universities and research institutes nationally and



Cav. Attilio Camozzi, president of the Camozzi Group. Though comprising a group of companies in a variety of business sectors, the core business is pneumatics.

commercial network of dealers and distributors throughout the country and abroad (21 subsidiaries supported by 54 distributors worldwide), as well as excellent technical support guarantee the client's complete satisfaction. The excellence of the products is assured through adherence to quality standards UNI EN ISO 9001 e UNI EN ISO 14001 as well as vertical integration, which guarantees complete control of all elements of the production line, from raw materials to the commercialization of the finished product.



The Series EN is the new generation of electric valves that will substitute for the preceding Series E, from size 16 mm with ports threaded into the body. Being perfectly interchangeable, part of the code is maintained, though the valve has a completely new shape and components, with an aluminum body and end-covers in techno-polymer, new spool, with connections aligned to the exhaust ports such that the overall dimensions are minimized.

Skill and innovation

Among the numerous company initiatives is the Camozzi Center of Excellence, established in 2007. This center, located near the production facility in Polpenazze del Garda, offers educational activities to employees as well as the general public. Courses are available at three levels of difficulty and provide a range of subjects from the basic physics involved in pneumatic processes all the way to product

internationally, as well as following the work of companies, agencies, and organizations in Italy and Europe. Camozzi engages in research and attends congresses to support constant interaction among the technical staff, sales, and marketing groups of the individual companies.

Over the last few years, through a restructuring of its internal design and planning organization, the foundation was established for a productive collaboration with the technical offices of several of the company's foreign subsidiaries. This has fostered the creation of new ways to approach development in manufacturing as well as reinforce the company's global image.

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progettare
 l'industria italiana



Individual Fieldbus node **Series CX2**

The ideal interface to the most widespread Fieldbus Protocols.



MIX COMUNICAZIONE - MI

Industrial applications for valve islands using a Fieldbus Protocol connection are constantly increasing. To respond to this increasing market demand, Camozzi has developed a new serial node **Series CX2** enabling some

solenoid valves series to interface with the most widespread Fieldbus Protocols: Profibus-Dp, CANOpen and Devicenet. Thanks to its strong Aluminium support structure, it is suitable for mounting also in arduous conditions.

Maximum flexibility
in use

For use in arduous
conditions

Easily
modifiable

Competitive
price

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Air that moves the world.

www.camozzi.com

Elettrotec

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Elettrotec's headquarters.

Elettrotec designs and manufactures instruments for fluid control, developing innovative technical solutions in order to meet every need that may arise during the control and monitoring of pressure, vacuum, temperature, level, and capacity. The potential applications are numerous and diverse: industrial automation, lifting equipment, the food and beverage industry, heat exchange, railway transport, hydraulics, pneumatics, agricultural and earth-moving machinery, the naval industry, chemical industry, cosmetics and pharmaceuticals, medical equipment, lubrication equipment, machine tools and fire-fighting equipment.

The use of cutting-edge methods for the production of pressure switches, vacuum switches, temperature switches, flow switches, liquid level (float) switches and monitors, flow switches and monitors, electronics, pressure transmitters and programmable digital indicators is built in the Dna of Elettrotec, which maintains that success is dependent on the high level and consistent quality of its product portfolio. Elettrotec has obtained Uni EN Iso 9001:2000



Technologically advanced solutions ready to quickly respond to the demands of the marketplace: product innovation is one of the company's strategic drivers.



PSK10 - diaphragm/piston pressure switches with adjusting knob for low pressure.

(and imminently Iso 14001) certification, which covers every side of the corporate structure and ensures the highest and most consistent level of quality. Many other certifications – Rina, Lloyd's Register, Germanischer Lloyd, Gost, Atex EExd IIC T6 and Atex EExia IIC T6, Imq, CE – further underscore the reliability of the service provided, even when facing the most challenging and demanding of needs. A team of engineers attends to the highly technical work streams in order to arrive at the most appropriate solution with respect to the context of the customer's application. With this approach, Elettrotec has developed the skills and experience to be able to

meet the needs of customers that operate in the most diverse industrial sectors with highly specific and dedicated products. Recent investment plans have further increased engineering and logistical services, supporting the customer/partner in the competitive international marketplace. Elettrotec has a commercial presence in Europe, Africa, Australia, North and South America, and China.

The search for new partners who are recognized for quality, experience and organization is part of the company's strategic plans for expansion, while simultaneously respecting the market of traditional, established products. Indeed, in the global marketplace, new technologies and operating modalities go beyond geographic borders and place all products on an even playing field independent of where and by whom they were manufactured. In this context, Elettrotec possesses an added value – at the same quality-price balance – value that comes from the passion and professional ethics of those who develop the products (for example, in design and research) and can express them both internally in the realization of the products themselves and externally in their various applications.

In recent years, the company philosophy has been to consolidate its leadership in the relevant markets with product innovation and the constant drive for excellence.

This objective is being continuously pursued through systematic design and manufacture of instruments for fluid control, which has always been considered the company's primary focus. These represent the vision and mission of Elettrotec.

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ALFAGOMMA



HALOGEN FREE HYDRAULIC HOSES

In line with the latest OEM environmental requirements as regards hydraulic hoses without any Chlorine, Fluorine and Iodine content, **Alfagomma** has replaced its standard range of hydraulic hoses with a new environmental friendly range of products. The innovative HF line was introduced earlier this year and will be soon available to replace the standard range. It is identified by the acronym "HF" on the branding text of the hose besides having a new set of part numbers. The HF range is available in the 1SN, 2SN, R6, R3, 1TE, 2TE, 3TE hose families.

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ALKA



HOSE AND TUBE CLEANING SYSTEM

Compri Tube Clean System, sold in Italy by **Alka**, removes contamination from any tube, pipe and hose with diameter from 2 to 100-150 mm, different shapes (even right angle bends and T or U pieces) and unlimited length (even 5-10 kms). Hoses, tubes and pipes used in hydraulics, pneumatics, heat exchangers and refrigerators are cleaned with projectiles made of patented materials and structure, propelled by means of compressed air. This system is used to rapidly and cost effectively degrease, lubricate and disinfect the inner walls of tubes using low quantities of chemicals. It is also possible to remove welding and brazing swarfs which could damage some components, such as pumps, valves, filters and cylinders, or to regenerate products in dosing tubes. Sometimes new tubes and hoses - either the welded or galvanized, brazed or simply shaped ones - contain fragments which can detach after a while they are being used thus contaminating the fluids flowing inside.

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ATOS



DIGITAL MOTION CONTROL

Atos development on digital electronics focuses on the integration of axis cards functions into proportional electrohydraulics, in either integral format or panel mounting. Digital controllers can be easily configured to best manage position, speed or force, in closed-loop, of any electrohydraulic axis, piloted by a digital proportional valve. They improve motion performances, simplify the automation architecture and may interface by fieldbus the machine main control unit. New controllers are easily programmable by PC, using the same Atos software, appreciated for the intuitive graphic interface. Atos digital controllers represent up-to-date solutions for the motion control in modern machines and systems.

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BREVINI FLUID POWER



HIGH PERFORMANCE PISTON MOTORS

Based in Reggio Emilia, Italy, S.A.M. Hydraulik is a product line of **Brevini Fluid Power**. Among S.A.M. Hydraulik products is the new SH11C family of piston motors. The new fixed series motors feature 40° bent axis angle with 12 displacements up to 180 cc. These units, suitable both for open and closed circuit applications, offer machine designers great flexibility since they can be used on heavy duty applications both for industrial - stationery machines and on/off highway mobile vehicles. The proven design incorporating convex valve plates, high quality components and manufacturing techniques, results in high performance products capable of up to 430 bar (6235 psi) continuous and 480 bar (6960 psi) peak pressure. This high performance, yet compact design, allows high power density in small spaces. Fully laboratory tested and field proven SH11 C motors provide maximum efficiency and long life. Heavy duty bearings permit high radial and axial loads. Typical applications are earth moving and construction equipment, material handling and lifting vehicles, concrete and mining applications.

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Fai Filtri

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Fai Filtri's headquarters are situated in Pontirolo Nuovo, in the province of Bergamo, Italy.

Fai Filtri has led the way in the production of air/oil separators for the purification of air from rotary screw or rotary vane compressors. These are essential components of any system that functions in a food, electronic, pharmaceutical, or textile environment.

These filters are produced in two principle formats: a compact spin-on and a basket-shaped format for

borosilicate glass microfibers. These filters function under a maximum pressure of 20 bar, while the collapsing pressure of the filtering element is $\Delta P \geq 5$ bar. The working temperature range is -20 °C a $+120$ °C, with flow rates, at a pressure of 7 bar, of 0.6 to 5.5 m³/min. The pressure drop at 7 bar is 0.2 bar (clean filter).

The DCC-DFN-DFF-DFE series is another line of air/oil separators with a wide range of models of various diameters and lengths. These filters are



Leading Fai Filtri are Roberto and Vilmo Pasotto.



Fai Filtri's range of air/oil separators.

assembly onto pressure vessels. The unique feature of the Fai Filtri oil separators is their ability to recover the majority of the oil from the compressed air, which had absorbed the oil during the process of lubrication of the compressor.

The DSP e FDS series, in-line spin-on cartridge air/oil separators, is appropriate for the extraction of oil from air on rotary vane or rotary screw compressors, thereby eliminating additional costs for pressure vessels. The unique feature of these models is their easy, rapid, and clean substitution in any setting and with no need for special equipment.

The series DSP e FDS filters are made up of a zinc-plated housing, zinc tropicalized steel flange, galvanized steel end plates and pipe, and an aluminum casting head. The separating element is made up of a filtering layer of high quality

used in rotary screw and rotary vane compressors to purify and separate air from lubrication oil, which otherwise would be delivered into the principle line of the compressor and interfere with functioning. They are generally mounted in a pressure vessel, which is integrated into the compressor itself.

The filter is constructed in galvanized sheet steel, while the material of the separator element is a filter of high quality borosilicate glass microfiber. Like the DSP and FDS series, the DCC-DFN-DFF-DFE filters also have a filtering element collapsing pressure of $\Delta P \geq 5$ bar and a functioning temperature range between -20 °C and $+120$ °C. The flow rate, at a pressure of 7 bar, is between 0.4 and 39 m³/min, while the pressure drop, with nominal flow and pressure of 7 bar, is 0.2 bar, again with a clean filter.

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FAI FILTRI'S WORLD BECAME BIGGER



Fai Filtri expands his plant surface up to 12000 sq. mt., increasing his capacity of manufacturing and storage of products. Today Fai Filtri offers you more: more technical solutions, more economical opportunities, better service and delivery of his high quality standard products.

The aftermarket products a wide range of filter elements , spin-on and air-oil separators, are a clear example of the high quality standards and interchangeability with the most known filter manufacturers.



Aftermarket
Fai Filtri grown-up to offer you more!



Flovex

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E-mail: flo@flovex.it



Small and medium capacity exchangers; finned tube bundle, compact and efficient cooling element. A complete product catalog can be downloaded by registered users from the company website.

Established in 1977, Flovex initially focused on the manufacture of heat exchangers for hydraulics, primarily tube bundle exchangers with integrally finned tubes. Over the years, the company's commercial footprint has expanded with the development of instrumentation specifically designed for the unique heat exchange challenges faced in industry.

relating to heat transfer, from saving energy to maximizing efficiency of equipment and facilities. In the current environment in which certification issues and transnational qualifications frequently come into play, it is essential to have a technical staff that is able to confront complex and specific problems in construction while maintaining accordance with various international standards. It's standard procedure that in the intermediate or final stages of production, external inspectors, groups of engineers, or auditing organizations verify the adherence of the product to the relevant specifications. Because of an impeccable quality system, hundreds of items are ready and in stock,



Roberto Gorni, managing director of Flovex, a company specialized in the manufacture of tube bundle heat exchangers and air coolers, both for hydraulics and for industrial use, as well as instruments for fluid conditioning.

Since 1996, Flovex has been part of Htri (Heat Transfer Research Institute) and since 1999, has been accredited by the American Society of Mechanical Engineers (Asme) for the construction and branding of products with the universally recognized "U". In 2003, the company also received Iso 9001:2000 certification, and consistently operates in accordance with the "Ped" standards. The company has been headquartered in Grezzago, near Milan, Italy, since the end of 2002. This location is the site of the manufacturing plant, a large warehouse, and of particular note, the impressive technical office, highlighting the solid technical foundation of Flovex, which has always been a company strength. Today Flovex provides a complete global service, not only to the hydraulics market, but also for any application with concerns



Duplex exchangers (Asme "U stamp" certified), selected for a particular application and realized according to the Asme specifications.

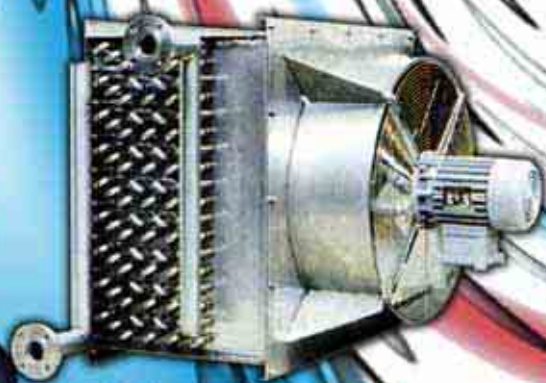
including a large variety of tubes of various diameters and materials, and can meet delivery demands, even on tight timelines. In today's globalized market, the company also counts on its positive standing among firms abroad that have had the opportunity to get to know and appreciate the Flovex brand.

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FLOVEX

SCAMBIATORI DI CALORE



FLOVEX

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Hose assembly center.

For 30 years Fluidmec has been a leader in hydraulics, in pneumatics and in automation. The company's authority in these areas can be seen in its impressive list of national and international distributors (Larga, Tieffe, Casappa, Oleostar, Ikron, Walvoil, SEL, Pneumax, Duplomatic, Busak and Shamban, Bürkert, Oleotecnica, Pi.effe.ci Hydrapp and many others). It can be further observed in the 10,000 m² of warehouse floor space (between the main facility and branches) in which a fully automated retrieval system has been established across vertical storage and through the use of bar

codes and scanners to optimize product movement efficiency. It can be demonstrated again, finally, in the skill and experience of the commercial office, with staff available to their customers for rapid, efficient responses, preventative strategies, and to dispatch orders as quickly as possible. Fluidmec has made an investment in its staff, so that they are competent to provide a complete and personalized consultancy service, frequently via visits to the customers themselves, such that they are able to meet their specific needs. Concomitantly, the technical office, which stays up-to-date and refines its specialty knowledge through continuing education, was established to provide expert assistance and develop custom-designed solutions. In addition to the personal element, the Fluidmec website (www.fluidmec.it) provides an opportunity for true e-commerce and online assistance 24-7. The site, dubbed E-Fluidmec, provides customers with all the technical and commercial information necessary to be able to make purchasing decisions

about any product in the catalog and execute transactions at any time day or night. The system is constantly updated with sale prices, product availability, and allows the user to track the progress of their order. The company's strength has always been the wide range of hydraulic and pneumatic products immediately available in stock. This requires a substantial economic commitment but it guarantees rapid customer service. Furthermore, with customer service and assistance, Fluidmec achieves its goal of providing a complete package. The hose assembly center, for example,



Automated vertical warehouse.

is set up to rapidly assemble flexible hose for low, high, or very high pressure. Fluidmec also has an operating specialized repair center at its customers' disposal for repairs on accumulators, bag exchange and nitrogen filling, and the adjustment and testing of components and equipment. For custom work, the company turns to its dedicated pipe department. To create a close capillary network of service, Fluidmec has attempted to minimize the distance between itself and its customers with a series of 'outposts', which includes the headquarters as well as the branches in Coccaglio, Isorella, Vobarno e Sarezzo. They are all inline with the warehouse, thus guaranteeing access to the more than 60,000 available products. Fluidmec is part of a group of companies that operate in similar or complementary fields; partners include Op, Effegi System, Sinde and Pneumax Brescia. This means a wider range of services can be offered, including the option of turnkey systems.

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HYDRAULICS - PNEUMATICS - AUTOMATION

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Autocarrier guide with recirculating ball bearings.

For more than 20 years, Gimatic Spa has offered pneumatic components for automation. The Gimatic product portfolio is wide and varied and includes pneumatic grippers, actuators, "Pick and Place", guides with recirculating ball bearings, and many others.

Many years of experience in the handling sector have granted the company the capacity to specialize, adopt new technologies, refine its products and earn the reputation of a company that 'owns' handling. Gimatic understands innovation well, imparting in its products an added value that results in an exceptional quality/price ratio. The product line that stands out as the major contributor to Gimatic's well-known place in the

and LMX). These guides are suitable for numerous applications thanks to their aluminum profile and carriage, recirculating ball bearings, and steel guideway. They can be motorized with pneumatic cylinders ISO or rodless, belt drives, magnetically-coupled cylinders, linear motors, screw drives, etc. Thanks to experience garnered over time, in 2005 Gimatic launched a series of products for presses for injection molding. With this portfolio of plastics products, Gimatic can supply all the components necessary to build End-Of-Arm Tooling (EOAT). Pneumatic grippers, pneumatic actuators for air nippers, air nipper blades, modular fastening systems, tool changers, aluminum profiles, and grippers for clamping are all included in the Plastics



Parallel pneumatic grippers: MGX series.

market, or rather, that which constitutes its core business, is without a doubt the grippers. Grippers are essential players in assembly plants and in the manipulation of small and medium components (max 10 kg) in sectors from electronics to pharmaceuticals, from food to packaging, and from the automotive to the small appliance industry. The "MGX" grippers are the latest arrival at Gimatic. These extraordinary grippers are endowed with many features, some of which include availability in six sizes, each in 2 versions (spring open or closed), high gripping forces, compact size, rectangular piston (patented by Gimatic), mounting flexibility to any sensor type, and safety springs. These combined with an unbeatable price make MGX an extremely strong product line.

Gimatic has also demonstrated its focus on the union between high quality and low price in its several-year marketing of its line of linear guides with recirculating ball bearings (LZ, LP, LL, LMY



Marco Brodini, commercial director of the Gimatic Group.

catalog. All of Gimatic's products are designed, prototyped, tested and manufactured entirely in Italy and distributed worldwide by a series of official distributors and subsidiaries. In addition to the intense efforts placed in research and development of new products, Gimatic makes substantial financial investments into the development of its commercial network, with the goal of establishing a greater capillary presence in the marketplace and thereby expanding and improving its service. Product technical information and information about Gimatic's business activities can be found on the company website (www.gimatic.com). readerservice@fieramilanoeditore.it n.12



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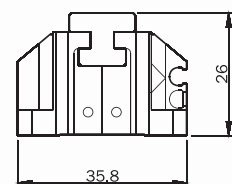
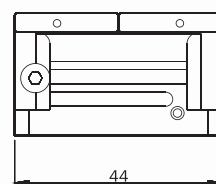
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Aerial view of the Concesio site, with more than 20000 m² in the primary manufacturing facility.

Established in 1967, Metal Work began in the compressed air component sector, its first product line being quick couplings. Since then, the company has continuously expanded its range of products; as quickly as the following year, in 1968, Metal Work began manufacturing fittings, followed by product lines for air treatment (1975), cylinders (1991), valves (1993) and finally fieldbus and handling products in 1997. Metal Work's output is enriched every year



Pneumo-power, the first electric micro-generator powered by compressed air.

with new solutions; by necessity these come forth from the expectations of a mature marketplace that increasingly demands high quality and service. To arrive where the company is today, they followed a dynamic expansion of the corporate structure, starting in 1982 with the establishment of the first Italian subsidiary, followed closely in 1984 with the opening of their first affiliate abroad, to reaching the point of the recent corporate acquisitions, both in Italy and abroad.

This spirit has only strengthened in recent years; indeed it is demonstrated by presence in demanding markets such as those of India and China.

Today the company depends on more than 40 subsidiaries that offer their own competencies and experience in pneumatics for automation, together

with a wide range of products that are presented in a catalog of almost 1000 pages. We take pride in the fact that almost all of our products are designed and produced in Italy, maintaining the high standards of quality that has come to be expected.

Despite the economic struggles many industrial companies experienced during 2009, Metal work's balance hovered at around €90 million and the company maintained a staff of close to 800 employees.

In 1992, Metal Work was one of the first companies in the sector to be Iso 9001 certified. Staying on the cutting edge, in 2000, the company embraced the concept of sustainable development of both products and manufacturing processes, bringing into the company the environmental management system of the Iso 14001 certification. In 2006, Metal Work furthermore obtained safety certification according to the Ohsas 18001 standard and during 2007, the last 2 systems were integrated.

Metal Work, although being 40 years old, continues to grow with energy and enthusiasm and with the power of a lean and motivated organization. The new products, some truly taken to the extreme, (for example, the all-in-one ONE, a single complete and integrated compressed air treatment unit), as well as products developed in sectors not typical for us, (electropilot, first electromagnetic elements in the Metal Work product portfolio), have motivated us to continually revisit the foundational products, thus helping us maintaining a philosophy of nonstop improvement.

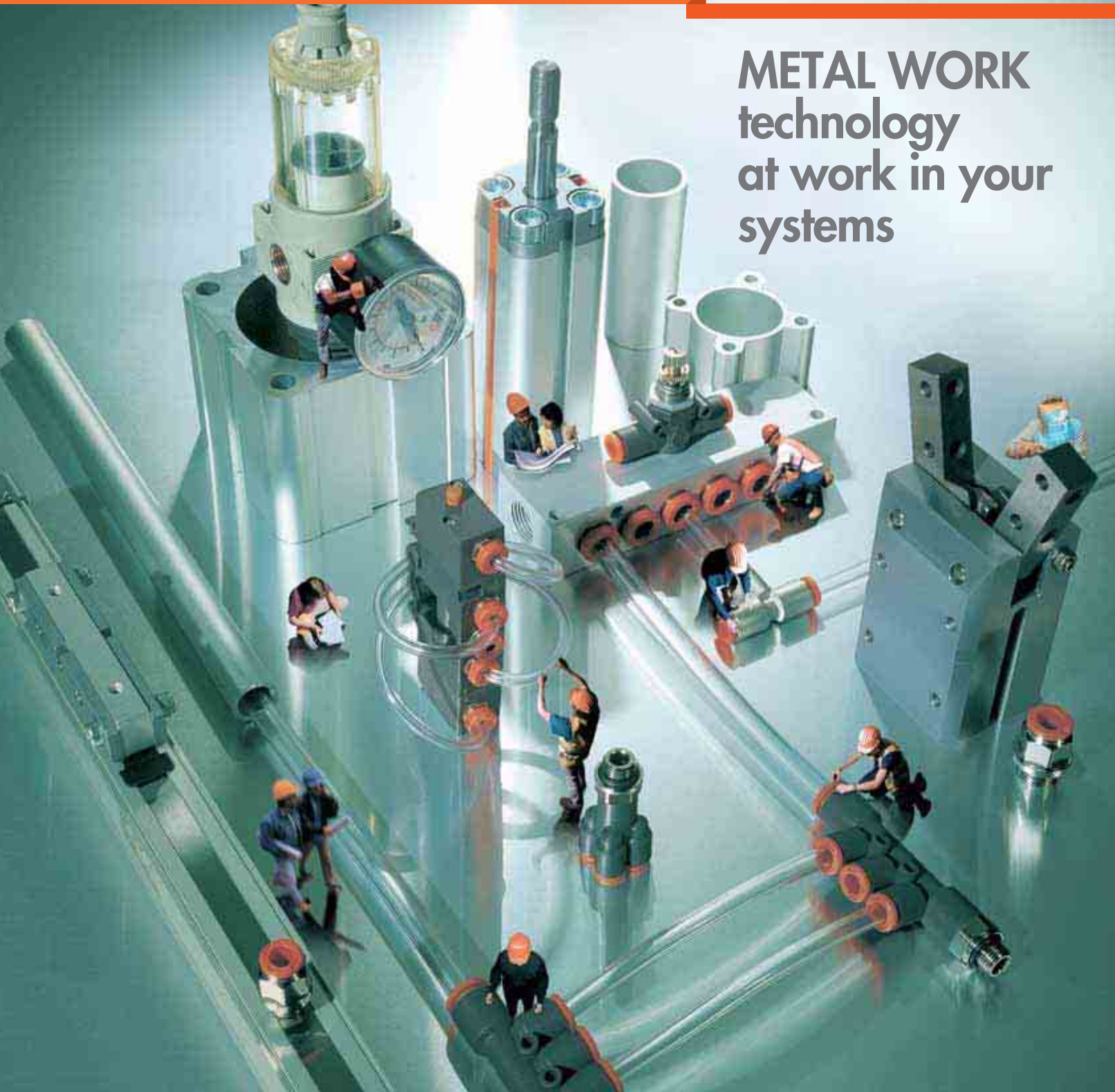
We're also pleased to mention one of our latest products, which is a testament to the innovation that is alive and well at Metal Work, Pneumo Power. This product is part of the Pneumo-wireless family, but is truly a new product without precedent, and promises to resolve those problems currently irresolvable for any number of applications. It is the first electric micro-generator powered by compressed air, supplying 24 Volt electric power via an M8 connector.

Anywhere there's compressed air it's possible to feed a device such as a PLC, a PC, a videocamera, valves, sensors, etc. In addition, it can supply power to wireless networks of any service provider, wherever it's not possible to use Metal Work's own wireless network.

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METAL WORK technology at work in your systems



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Ufi

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E-mail: info@ufihyd.com



The primary site of UFI Hydraulic Division is located in Bolgare, near Bergamo, Italy.

UFI Hydraulic Division is the company of the UFI Filters group dedicated to hydraulic filtration. The parent Company, UFI Filters Spa is headquartered in Nogarole Rocca, Verona, Italy, and is dedicated to the design and production of innovative automotive filters. The UFI Filters group has production sites and/or a sales presence in all major industrialized countries, including Germany, Usa, China, Korea, India, and Tunisia.

The primary site of UFI Hydraulic Division is in Bolgare, Bergamo, Italy; it is staffed by a strong 75 employees, with roughly the same number at the

care': rather than provide just another option to what's already available, we identify the specific needs of the filtration system of our customer, so that together we can find the most efficient and economical solution». Consistent with the "System of Care" philosophy, the company offers complete technical support both pre and post-sales. The design stage is accompanied by exhaustive, detailed, and easy-access technical documentation. The website, in eight languages, was developed to be a complete and enjoyable source of information available to the customer 24/7. For example, the Computer Aided Filter selection (CAF)

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UFI
FILTERS
HYDRAULIC DIVISION



Enzo Sancassiani is the managing director of UFI Hydraulic Division.



The website was developed and today is constantly updated to be a simple and useful work tool for customers.

The range of filters produced by UFI Hydraulic Division is comprehensive and provides solutions suitable for every application.



production site in Shanghai, a young and rapidly growing company that was set up to satisfy the intense development of the local market. The Group's synergies provide financial, administrative, production and research support, while the commercial activities and those pertaining to the each particular sector are maintained distinctly separate, so as to best leverage specific knowledge and experience. "For this reason, we deal only in hydraulic filters," comments Enzo Sancassiani, managing director of UFI Hydraulic Division. «In this area our staff have developed comprehensive experience. For each application, we can offer the model of filter that will be most appropriate in terms of type of assembly, filtration capacity, hydraulic characteristics, and so on. This is why we identify ourselves in the marketplace with our motto 'we take

function enables the customer, even those new to filtration, to quickly, easily and precisely select the filter of the right dimensions. In the application stage, the customer can also avail themselves of an oil analysis service in order to verify the level of contamination that has occurred in the field. «Our future depends on constant innovation and on communication. Thus we are investing heavily in R&D and in the internet - continues Sancassiani -. R&D is centralized for all of UFI Filters at a dedicated site, where the technical staff work on the next generation of filters using their acquired experience as well as current trends in technology. In our world, the internet is a formidable tool for ensuring up-to-date information as well as in-depth and non-stop service for our customers».

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Davide Bosi, technical and commercial director of Vuototecnica.

What makes Vuototecnica one of the leading companies in Europe for vacuum generation and control technologies is a constant dedication to technological innovation, to corporate betterment, and to expansion of service. Established in July 1975, today Vuototecnica boasts a solid presence throughout Europe, with exclusive distributors in every country and a subsidiary in England. The company is also rapidly growing in some of the most important industrial nations in the world including the USA, Canada, Venezuela, Israel, Turkey, Singapore, South Korea, China and Australia.

With a uniquely broad and in-depth expertise that has developed and matured through more than 30 years of customer partnerships, Vuototecnica is a true problem-solving consultant and engineering partner.

«The applications, in which the use of vacuum systems is strategic, grow to the rhythm of progress» states Davide Bosi, technical and commercial director, «giving rise to demands that are increasingly detailed and complex. Collaboration with other leading companies, together with our large repertoire of experiences and case histories, enables us to respond to these demands with a complete and continuously evolving range of solutions. 'Quality', 'custom-made', 'versatility' are concepts we have always valued and which are now deeply integrated into our entrepreneurial culture. As a result, we are a true engineering partner to our customers worldwide offering, not only an excellent product line, but first and foremost a wide range of ideas and solutions to optimize production processes». Vuototecnica designs and produces everything technologically necessary for optimal vacuum

control. Among the newest additions to the product portfolio are the Maxigrip Cups and the Automotive Vacuum Generator (AVG). Developed in close collaboration with the engineering departments of the leading auto manufacturers, the AVG system controls all the functions of a vacuum gripping system: aspiration, grip control and release by counterflow, adjustability by intensity and duration. The emptying speed is extremely rapid thus rendering work cycles increasingly higher in the field of steel plate die casting. It is also equipped with a series of energy-saving circuits of compressed air, maintained during power failure and controlled via an integrated pneumatic vacuum switch. Maxigrip Cups represent a



Maxigrip Cups: a new line of vacuum cups that are unique in their high friction coefficient.

new line of suction cups with a high friction coefficient, enabling them to grip very oily surfaces or wet sheets of glass or marble thanks to an oil and water drainage process. They are available in various shapes and sizes; round and elliptical, flat and bellowed, and come complete with a support. The flexibility of the attachment lip means that they can be fixed to flat, concave, and convex surfaces without risk of deforming or breaking the object being gripped, no matter how delicate. The Maxigrip Cups are manufactured with the proprietary BENZ formulation. Their fixing support is galvanized steel and is vulcanized into the cups. A wide range of accessories, such as reducers, adaptors, couplings, and articulated joints enable their installation on any vacuum handler.

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Among the company's new offerings is the Automotive Vacuum Generator (AVG), which handles all the functions of a vacuum gripping system.

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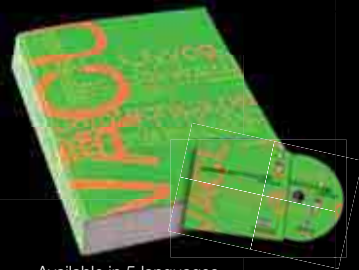
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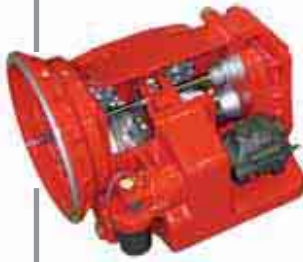
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CARRARO



ENVIRONMENTALLY FRIENDLY MECHATRONICS

With headquarters in Italy and plants in the United States, China, Europe, India, South America and Eastern Europe, **Carraro** has four business units responsible for drivelines, components, vehicles and electronics. Its mission is to be a global leader in efficient and environmentally friendly power transmission system. Thanks to its mechanical and electronic skills, this group develops and validates modern and energy saving drive systems and state-of-the-art powertrains for material handling and urban mobility. The integration in 2006 of Elettronica Santerno enabled the group to produce a fleet of over 100 hybrid buses, a field which Carraro is presently investing in. At Cemat 2008 the group exhibited some driveline systems for forklifts and warehouse machines integrated for the first time with Santerno inverters. At Agritechnica 2009, the Carraro DriveTech business unit introduced its transmission range for agricultural applications, featuring the DueT (dual clutch) e VaryT (continuous variable transmission module) technologies. Among its latest products are advanced drivelines for construction equipment and zero or low-impact technologies for off-highway applications.

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CASAPPA



HYDRAULIC GEAR PUMPS AND MOTORS

Casappa introduces the new hydraulic gear pumps and motors Polaris PH series. Developed as an evolution of the Polaris series, the Polaris PH series is built in three pieces with cast iron body for higher operating parameters though keeping the full Polaris versatility regarding shafts, flanges, ports and built-in valves. This project is targeted for forklifts, skid steer loaders and all those applications where traditional aluminium pumps are being pushed close to their limits. The cast iron body further reduces noise levels and increases strength. The Polaris PH series features displacements from 1.16 in³/rev (19,09 cm³/rev) to 2.01 in³/rev (33,03 cm³/rev); max peak pressure up to 4350 psi (300 bar) and max speed up to 3500 min-1. Among the advantages are a high working pressure also for high displacements, long service life and low noise level, high volumetric efficiency also at high temperatures, inlet and outlet optimization, high speed combination in multiple pumps. Moreover, the built-in valves simplify the circuit design.

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CBF HYDRAULIC



COMPONENTS FOR MOBILE AND INDUSTRIAL EQUIPMENT

CBF Hydraulic, an Iso 9001-2008 certified company, has been operating in the hydraulic field for over 20 years, producing components for the mobile and industrial equipment sectors. The strategy of the company is strongly oriented towards the innovation and development of new products, focusing on customers' requirements as well as on the continuous improvement in design and production. Over the last few months the company has been widening its cartridge valves selection, adhering to the Nfpa/T3.5.50-2009 industrial standard. This standard includes 2, 3 and 4 ports cavities with 4 thread dimensions: 3/4"-16 UNF, 7/8"-14 UNF, 1" 5/16-12 UN and 1" 5/8-12 UN. Several new products fit in this group, with flow up to 400 l/min and pressure up to 350 bar, including but not limited to pressure relief valves (direct operated, differential area, pilot operated), overcentre (load control/counter balance) valves, flow regulators, pressure reducing valves, check valves and solenoid valves. These valves are optimized for the production of customized manifolds, with the possibility to create any kind of hydraulic circuit. CBF aim at offering a wide and complete product range for standard cavities as well as customized manifolds and hydraulic systems.

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CIESSE



AIR/OIL HEAT EXCHANGERS

Ciesse air/oil heat exchangers can be used in cooling off oils and liquids which are not aluminum aggressive. Based on an in-depth technical and commercial analysis, the company has developed a wide range of standard air/oil heat exchangers meeting most of the requirements in terms of dimension and thermic status. The series consists of two aluminium air/oil heat exchangers: CSL for oil capacity ranging from 2 to 200 lt/min; CSA for oil capacity from 40 to 800 lt/min. The compliance of the air and oil turbolator to a high vacuum brazing process allows a high thermic result and great resistance to pressure. Ciesse air/oil heat exchangers are suitable for oleodynamic plants, electric compressors, presses and earth moving machines (mini excavators, wheeled/tracked excavators, road machinery, handling machinery, forklifts, sideloaders, reach stackers, lifters, agricultural machinery, etc). They are equipped with woven-wire, 230V 50/60 Hz 400V three-phase 12 or 24 DC electric fan or preset for G1/G2/G3 hydraulic motor, fastening stirrup and fixed thermostat or manual reset. Among their main characteristics are: maximum pressure of 20 bar, maximum temperature of +120 °C, maximum oil viscosity of 100 Cst, Fluid cooling-off is A1 compatible.

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CLAMP



CLAMPS FOR SEVERE APPLICATIONS

Band It clamps – Ultralok System are supplied either as double-wire preformed clamps or in pre-cut length to be assembled with the proper reinforced buckle for stronger clamps. Made in Inox Aisi 201 stainless steel, they can be supplied with both 12.7 mm and 19 mm band width. In combination with a portable electric tool, clamps are applied on benches, ground or on the field even in severe working environments since there is no need to move hoses and components thus reducing assembly times. The tool guarantees that clamps are properly applied with consistent tensioning thanks to a special system to adjust speed and torque. This system is recommended for severe applications requiring safety, such as petrochemical and offshore applications and whenever clamps are subject to pressure. The Band It Ultralok system as well as other Band It products are distributed in Italy by Clamp, a company with twenty-five year experience in this field. **Clamp** provides any information as well as technical support to meet its customers' requirements.

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HYDRAULIC AND PNEUMATIC CYLINDERS

CMB specializes in the production of pneumatic and hydraulic cylinders in compliance both with international standards and customers' requirements. With 35 years of experience in this field, the company develops all manufacturing processes so as to deliver high quality products. Its headquarter is located in an area of more than 6.000 sqm and its warehouse allows flexibility for urgent deliveries also on semi-standard products. In order to improve its customer service, CMB has recently re-styled its www.cmbcilindri.com website creating a new section to generate the drawings for Iso 6020/2 and Iso 6022 Series hydraulic cylinders. The programme can be customized, making design engineers work easier. All mounting drawings in the catalogues can be included in the final drawing of the cylinder. After registration, it is possible to download the drawing in various formats together with a pdf-file with the main features and the right cylinder ordering code. The use of the programme is free, but it entails a continuity in the business relationship with CMB.

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CMB



COMER INDUSTRIES



INTEGRATED SOLUTIONS FOR CRAWLER AND TOWER CRANES

Comer Industries offers a complete range of planetary drives for crane rotation, from the smaller ones designed for lattice crawler cranes to the large ones, designed for the rotation of crawler cranes. Among its new solutions is a modular planetary drive for winches – series PG 6503 – featuring external brake, as well as its new planetary drive PGRF 25000, the biggest ever designed and manufactured by the company. The product, devised to be fitted on the winch of large tracked cranes, has been fully tested at Comer Industries' Mechatronics Research Center. It offers a maximum transmittable torque of 50,000 daNm. The 25000 drive gear is suitable for mobile crane winches and other winches like those for marine applications. The gear end stage can also equip the PGA 25005 traction track drive to form a 5-stage drive gear, with flanged input for hydraulic motor at 90° to the track fastening output flange axis. The 5 stages are a combination of bevel gear, planetary and parallel drive gears to form a very compact and sturdy solution given the provided performance. For tower cranes applications Comer Industries offers the PG 503 PR, suitable for cranes from 2.4 to 12 t load capacity, and the slewing drives PG 5003 PR, available with a broad range of optionals: static brakes, dynamic brakes, integral pinions and fixing dimensions on request. The crane slewing drives can be equipped with an electronically or mechanically-controlled connect and disconnect device.

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DAMINELLI



HIGH PRECISION MECHANICAL PARTS

Daminelli produces customized high precision mechanical parts. Located 50 km from Milan, the company has 35 years of experience in the field whereas its dynamic and flexible structure – with a workforce of 70 people – allows it to offer its products to several industrial sectors. In fact, **Daminelli** produces parts for oil-hydraulics, pneumatics, measurement instrumentation, scuba diving equipment, medical devices as well as for the automotive industry. They machine stainless steels, alloyed steels, titanium, aluminium, brass and plastic materials from round and flat bars besides machining different types of castings, such as aluminium die castings, brass and steel castings. Daminelli is certified in compliance with the Uni Iso 9001:2000 standards relying for periodical checks upon the prestigious SGS International Service AG.

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ELETTROTEC



ELECTRONIC PRESSURE SWITCH AND TRANSMITTER WITH CERAMIC SENSOR

Elettrotec introduces the new EPX electronic pressure switches and transmitters, specifically designed for industrial applications in processing, measurement systems and pressure control. EPX models have a compact and rugged design. All working parameters can be set through the frontal keys. The switching point, the hysteresis, the engineering unit and the analog output can be easily programmed thanks to an extremely intuitive configuration menu; moreover setting values can be protected with a password from any possible violation and tampering. EPX electronic pressure switches and transmitters have been designed with a 4 digit and 7 segment red display, which is extremely bright and visible even in dark environments. The setting status and the engineering unit are clearly displayed on the front with red or green LEDs. Pressure is measured with a high quality ceramic sensor particularly resistant to pressure shocks and vibrations; thanks to these features, EPX switches and transmitters are ideal for use in several different applications as control and monitoring of pressure systems in building automation, hydraulics, pneumatics, industrial processing, pumps and compressors.

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EPLAN



DESIGN AUTOMATION SOFTWARE PRODUCTS

At Hannover Messe 2010, **Eplan** Italia will be represented inside the big booth of the German softwarehouse Eplan Software & Service (Pavillion 17 – Booth D40). With a wide know-how resulting from more than twenty years of activity and also thanks to its skilled technical and commercial staff, Eplan Italia welcomes its new and old customers with a preview announcement on the Eplan platform regarding Eplan Electric P8. This extremely useful Cae can meet any engineering requirement. It opens up a new dimension in electrical design engineering thanks to its differentiated range of functions and to the possibility to be either graphic or object oriented. Quite interesting are also the new enhancements on Eplan Fluid, a powerful tool aimed at fluid engineering, Eplan Cabinet, a valuable CAD-CAM software for the 3D layout of enclosures and Eplan PPE, a software to design electrical, measuring and control system project for plants.

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EURAL GNUTTI,



ENVIRONMENTAL FRIENDLY ALLOY FOR BRAKES

In 2004 **Eural Gnutti**, together with the main Italian manufacturers of brakes for Formula 1, Rally, and the majority of brands for sport cars, developed the Eural 6026 alloy. Today this alloy has replaced the 6012 and 6064A ones thanks to its good attitude towards anodization and good resistance to corrosion besides complying with ROHS and ELV standards. Moreover Eural 6026 features a better workability than 6064A, with smaller and shorter chips for a higher production of automatic lathes, and it has superior mechanical characteristics. Several users have already replaced brass with the Eural 6026 alloy: its good plastic deformability when hot makes it suitable for forging; with thermal treatment after forging, it can be machined at a high speed. Eural 6026 represents a great alternative to brass even in terms of costs.

Last but not least, brass contains about 2% of lead, and weights three times aluminium: a piece made of brass has 15 times the lead of the same piece made of Eural 6026. Consequently, brass manufacturers have developed a new environmental friendly brass (containing no lead), which is even more expensive than the regular one. Eural 6026 alloy is recommended for a variety of applications. Today it is used by automotive and electrical industries, hot forging and for the production of electronic equipment.

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FAI FILTRI



AIR-OIL FILTRATION INTEGRATED GROUPS

As a player in the industrial filtration field since 1976, **Fai Filtri** has constantly grown both in terms of turnover and sales markets. The company has been on the Asiatic, American and European markets since the early eighties and it presently exports 70% of its production. The main Italian compressor producers are among its customers whereas the widespread sales network can count on several skilled resellers. This is the result of a precise investment plan in technologies, plants, human resources as well as the capability to renew its product range according to the market's needs. Among its product lines are a series of complete spin-on oil filters and cartridges, available in different models and sizes to efficiently control contamination in hydraulic, lubricating and motor circuits. Fai Filtri high quality standards enable the production of air/oil separators to purify the air on the outlet of rotative, screw or pallet compressors, that is fundamental in the food, electronics, pharmaceutical, mechanical and textile fields. These models feature easy, fast and clean replacement, without requiring specific tools and suitable for any application condition. Among Fai Filtri new products is a series of integrated groups equipped with air-oil separators and oil filters, with minimum pressure and thermostatic valves, for any screw compressors having max 12 m³/h flow. Fai Filtri also offers a wide range of filters for the microfiltration of lubrefrigerants as well as wire and plunge EDM fluids.

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FASTER

QUICK-RELEASE COUPLINGS

With more than 50 years' experience, over 50 million couplings produced and 30 different product lines available in over 3,000 versions, **Faster** is one of the leading companies involved in the design and manufacture of quick-release couplings – particularly for application at medium, high and very high pressures that are suitable for agriculture, building and construction, air-conditioning and refrigeration applications. The company is certified Iso/TS-16949. The attention paid to its customers through the continuous research and technological innovation and investment as well as the constant co-design activity with the main players of the sector have led the company to be a precise reference for the manufacturers of the hydraulic field, where the need of quick connection/disconnection of hydraulic lines is more felt. Besides the constant upgrading of the most innovative product lines, Faster Research & Design division develops new products to meet and exceed the requirements of a more and more demanding market. The company is also trying to expand its know-how in several sectors besides the ones it usually works for.

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HANSA-TMP

VARIABLE DISPLACEMENT AXIAL PISTON PUMPS

Hansa-TMP introduces the constant Power control, which makes the pump flow decrease to keep constant the required torque and avoid overloading the prime mover. In the Automotive Control Sei... Pcam the pump displacement is automatically regulated, depending on the speed of the engine: rising the speed, the displacement increases; reducing the speed, the displacement is reduced. It is possible to set a minimum speed for the movement start of the machine, so there is no need for a clutch. The electronic card features a set-point to limit the maximum power to be absorbed by the hydrostatic transmission: when this point is reached, the pump starts to reduce the displacement and the motor power can be used by other services. This system meets, for example, the operational requirements of a wheel loader for which during the travel the engine is with low load and the pump displacement is high. When starting digging, the pressure in the system increases, while the pump displacement is reduced; the ratio between these values is lowered, so that the engine can supply more torque, maintaining the same speed. All this is achieved automatically. It is therefore easy to operate a vehicle with a transmission pump with automotive control, similarly to that of a car with automatic gear. Operation is very smooth and without shocks: the transmission ratio varies continuously and automatically according to the requirements of the machine.

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IGUS

ENERGY CHAIN WITH INTERIOR SEPARATION TOOL BOX

Igus introduces an energy chain with new interior separation tool box featuring a tribologically optimised plastic material. The new E4.1 interior separation range has only six components, which are simple to fit and can be assembled and configured in almost any combination. It consists of four separators, one locking separator to be combined with a special cross bar and also slide-in shelves. The standard separators ensures maximum holding force and a safe, interlocking fit through their broad feet. Thanks to the optimised foot geometry, the cables can run very close to the separator with minimum wear. For even faster installation and removal, some separators have special one-sided or narrow geometry feet. These are combined with an easy to fit quick-lock cross bar. The new locking separators, which can be locked in place in 5 mm increments, are combined with special cross bars and lids. Locking teeth on the cross bar together with the separating bars ensure a safe hold in applications where the energy chain is turned on its side. The holding force of the separating bar is 25 kg when locked in position. Cables and hoses cannot slip either vertically or horizontally. In addition, a new smooth-surfaced measuring scale helps position the bars exactly. No spacers are necessary. The new range is rounded off by slide-in shelves for straightforward horizontal separation.

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MARZOCCHI POMPE

PUMPS WITH INTEGRATED PRIORITY VALVE

In order to offer a complete range of products meeting the requirements of the mobile market, **Marzocchi Pompe** has introduced new pumps integrating a priority valve. These pumps are produced in the families 2 and 3 and cover displacements from 4.5 to 87 cm³/rev. The working hydraulic pump operates in an open circuit; it draws oil from the hydraulic tank and pumps it to the control block that can be integrated on the cover or bolted on the side. The priority valve attached to the pump distributes the oil between the working hydraulics and the steering system; the oil supplied to the steering system always takes priority. The load sensing system guarantees that in any operating condition the steering system receives the oil according to the actual requirements. The pumps equipped with priority valve are available with and without Load Sense signal (in both static and dynamic versions); it is also possible to integrate a relief valve with internal drain. Gear pumps and motors are volumetric machines widely used in hydraulic system design. Having a simple construction, they are compact and reliable and offer a top cost/performance quality ratio. Marzocchi forty-year experience in the field can support the choice of these products.

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MATEC INDUSTRIALE GROUP



FLEXIBLE HOSES AND FITTINGS

Matec Industriale Group has been on the national and international markets for over 30 years, with its Compotec, Enco, Farivo and Industriale divisions. With an Iso 9001:2008 accreditation, Matec Industriale Group focuses on the design, development and manufacture of flexible hoses and fittings. The product range includes flexible composite hoses, flexible metallic hoses, flexible rubber hoses. The company also manufactures and distributes metallic expansion joints and an extensive range of couplings and fittings for low and medium pressures, associated components as well as engineered products for industrial maintenance. Matec Industriale Group operates in Italy directly, through a network of technical engineers, salesmen and depots. Abroad the company counts on a network of specialized distributors all over the world.

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MEBRA PLASTIK



LOW TO MEDIUM PRESSURE HOSES

With more than 30 years of experience, **Mebra Plastik Italia** is specialised in the sector of low to medium pressure hoses for pneumatic applications. Thanks to the quality of its products and its service promptness, Mebra Plastik gained the confidence of important global player which consider it as a valuable partner for the development and the strengthness of a market that keeps growing. The company can count on a team dedicated to the research and development of new products meeting any specific requirement. Customized products are designed and produced in a short time. The wide product range in the company catalogue is enriched every year with new products as an example of Mebra Plastik creativity and capability to solve problems and improve its customers' productive capacity.

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METAL WORK



ELECTRIC MINI-GENERATOR POWERED BY COMPRESSED AIR

Nowadays industrial wireless applications to control equipment or receive field signals are limited due to power reliability since batteries provide power only for short and limited periods. On the other hand, compressed air is available almost everywhere as a clean, portable, not inflammable energy source. Based on this, **Metal Work** pneumatic developed Pneumo wireless, an electric mini-generator fed by a micro-turbine powered by compressed air. The electric power of the generator is used to feed both the RF wireless receiver-transmitter nodes and all sensors and actuators of the area covered by the wireless node. This system has no limit as regards power and signal transmission frequency, with a consequent real-time result, and it assures continuous operation without having to replace any battery. Moreover, it is even possible to control electro-pneumatic actuators without any power cable. Pneumo wireless is supplied in various modules and sizes, with power ranging from 2 to 200 W, input pressure from 2 to 10 bar, nominal voltage supply of 24 VDC.

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NALDONI E BIONDI



COMPONENTS FOR HYDRAULIC CYLINDERS

Boasting thirty-year experience in the field, **Naldoni e Biondi** enters the marketing arena to directly sell its components for hydraulic cylinders which were awarded the Uni EN Iso 9001/2008 certification by Tüv. This distinguished certificate has been dedicated to its customers, whose needs are always taken into due consideration. For this reason, the orders received in the morning, are handed over to the couriers that same day, whereas those arriving in the afternoon are processed on the following day. The time needed to manufacture special components depends on the complexity of such parts, although it is always as short as possible and agreed upon with customers. The offer of a wider range of products and the continuous improvement in quality and service is part of a strategy adopted by Naldoni e Biondi to face the present economic crisis. Therefore the production of heads, pistons, end plugs and forks has been recently integrated by threaded pistons with new bores, a wide range of weldable flanges as well as pivot bolts. In order to meet the customers' demand, studs have been included in Naldoni e Biondi new catalogue. A full range of Aisi 316 L stainless steel products will also be available as from May. It will consist of a wide range of heads, end plugs, bushes and forks specifically developed for the nautical and food industries.

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OLMARK



HYDRAULIC CONNECTION SYSTEMS

Olmark offers customized and reliable design and production of pipes for hydraulic high pressure applications. After a preliminary analysis of the customer's needs and of the hydraulic system requirements (working load, working pressure, standards of connections), Olmark technicians design the hydraulic circuit using a 3D CAD software. A prototype is then produced, installed and tested on board the machine. Bent pipes are made in steel, stainless steel or copper, with an outside diameter ranging from 4 to over 300 mm. Their dimensions are checked and carefully tested in compliance with the most rigid international standards. Advanced techniques are used for outside treatments, such as TIG or MIG welding, brazing, coating and cathoporesis, according to the latest international and environmentally friendly standards. Olmark pipes and hoses are subjected to the flushing decontamination process to eliminate any particles contained in hoses, in conformity with Nas and Iso cleaning requirements. Olmark is Iso 9001 and 14001 certified and its quality control system guarantees the continuous compliance of the products with internal and global quality specification standards.

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OMT



ALUMINIUM AIR/OIL HEAT EXCHANGERS

OMT specializes in the production of oil-hydraulics components. Its production includes five main categories of products: bellhousings and elastic drive couplings made in aluminium, iron and cast iron - for which the company is considered as a reference supplier in Italy -, accessories for pump/motor units (damping rings, foot flanges, damping rods for foot flanges) and components for micropowerpacks; filters to be installed on return and suction lines as well as on filters operating at 420 bar max pressure; aluminium air/oil heat exchangers; steel and aluminium joints for gear pumps, SAE flanges, Cetop blocks; accessories (supports for the main gear pumps, aluminium and steel tanks with max capacity of 400 lt, breather fillers, visual level gauges, return filters and drain plugs). OMT is Uni EN Iso 9001:2000 certified. Among OMT aluminium air/oil heat exchangers is the ST series, featuring 12/24 Volt venting group, operating pressure of 25 bar and max operating temperature of 120 °C. The line is completed by the ST2 double pass series, for higher heat exchange and lower heat exchange, and the SDT series for high flows. The ST series is suitable in agriculture, forestry, material handling and earth moving equipment.

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PIZZATO ELETTRICA



MODULAR PREWIRED SWITCHES

Always consistent with its innovation and company quality targets, **Pizzato Elettrica** introduces three innovative prewired switches. These products, resulting from a 25-year experience in the position switches sector, have been developed after four years of researching, developing and testing new solutions to meet the requirements of the market. The switch body is separated from the wired connector thus allowing the user to change a product in the field without removing the wires completely. These versatile and compact products are characterised by the availability of 14 contact blocks (in the same space of the previous versions, it's now possible to have up to 4 different contacts provided with positive opening) and 35 actuators (some of these were not present in the previous series). Single pieces of these products can be purchased separately, which is an advantage for distributors in terms of better stock flexibility and for final customers in terms of spare parts or new combinations. Other features include metal housing (NA-NB) and polymer housing (NF), adjustable cable output, 3 (NA-NB) or 2 (NF) types of integrated connector cable as well as IP67 protection degree. The new series support the FA-FB-FF series for a wide product range in the position switches sector.

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RASTELLI RACCORDI



HOSE FITTINGS AND RELATED PRODUCTS

Established in 1952, **Rastelli Raccordi** is today a primary player in the European market of hose fittings, delivering 12,000 to 15,000 kg of products every day to its sales branches in Italy (Turin, Padua, Bologna, Avellino), France (Chartres, Nantes), Germany (Ostfildern-Nellingen) and Spain (Martorelles - Barcelona) and to resellers/users all over the world. Products are in compliance with Din 2353, Sae J514 (37°) – Adapters and hose fittings –, made in trivalent chrome-plating steel, covered with a protective film highly resistant to saline mist for over 500 hrs (other finishings are available upon request) as well as in Aisi 316Ti/316 stainless steel. More recently other products have been introduced, such as brackets for tube fastening, steel tubes and ball valves. The seat of the company is located in Villanterio (production, finishing, sales department) whereas production plants are located in S. Angelo Lodigiano, Valera Fratta and Verona where state-of-the-art machineries are used. Rastelli Raccordi is certified Iso 9001-2000 Inqet/Cisq – Rina – Det Norske Veritas – Germanischer Lloyd – Dvgv (natural gas plants). In order to improve its service, around three years ago Rastelli adopted an automated packaging system while an advanced automated storage system is being implemented.

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SAI GROUP



NEW-GENERATION, HIGH PERFORMANCE MOTORS

SAI Group presents several brand new products illustrating the company's overall ability to integrate mechanical and electronic drive solutions. By constantly developing innovative products, the company creates project solutions through the efficiency, extremely compact design and high-speed capability of its ever-increasing range of hydraulic motors. Among the very latest SAI hydraulic motor developments are variable-speed and dual-displacement motors, integrated drive units, wheel drives and actuators which perfectly mirror key features like high efficiency, the option of continuously variable displacement and the new modular design. The high power density of the new T motors, for example, makes them a practical and immediately available alternative to axial piston motors whilst offering a much higher level of efficiency, thus reducing heat generation, noise levels and the cost of operation of the machine. Used directly or in combination with gearboxes, brakes and valves, they allow great space, weight saving and a much more modern approach to the new efficient design.

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SERTO



STAINLESS STEEL TUBE UNIONS

The new **Serto** stainless steel tube union withstands a working pressure of up to 400 bar thus increasing safety in high pressure areas and wherever such media as natural gas or hydrogen are used. Since unions must pass strenuous vibration tests, a longer service life is guaranteed to the complete pipe system. The new tube union is made of stainless steel 1.4571 to accommodate the most demanding specifications and is mountable radially. An innovative press ring, a re-engineered compression ferrule and a cold-extruded union nut provide for absolute reliability up to a working pressure of 400 bar. The stainless steel line of products ranges from 6 to 18 mm pipe diameter. The system with a two-ferrule mechanism has been designed for the harshest operating conditions, typical - for example - on oil drilling platforms, as well as in the automotive industry, where space and weight are a major concern. Like all tube unions manufactured by the Swiss company, the body of the new stainless steel union is one wrench size smaller than that of the competition. According to the patented Serto system, mounting and dismounting, in addition to re-mounting, can be done radially. The two-ferrule mechanism works with a compression ring instead of a cutting one, so that the base material of the tubes is only deformed without any damage. The union is also protected against incorrect mounting and overtightening by a defined stop.

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STUCCHI



QUICK COUPLINGS

Stucchi is an Iso 9001/ Vision 2000 certified manufacturer of hydraulic quick disconnects for applications in markets like construction, agriculture, automation, chemical, off-shore and land based oil & gas, pulp and paper, plastics, public utilities, etc. Its quick coupling products are available in different sizes and port configurations ranging from 1/8" to 2". Pressure capabilities are up to 720 bar. The A series is designed for applications requiring higher working pressures and longer life. Features include the elimination of fluid loss during connection/disconnection, reduction of air inclusion or contamination during connection/disconnection while safety lock prevents accidental disconnection. The APM series addresses residual pressure in a circuit. Its patented internal valve system allows the connection of the coupler with up to 30 MPa of residual pressure trapped in the circuit. It is interchangeable with Iso 16028 coupling. The VEP HD Series is recommended with couplers used in extreme applications. Among its features are connection/disconnection with residual pressure up to 30 Mpa and high working pressures 40-50 Mpa. It interchanges with VEP Series. Multi-Coupling Plates GR series allows the simultaneous connection of multiple lines under the toughest conditions. They are designed for medium to high pressure hydraulic applications and offered in configurations of 2 to 10 hydraulic circuits in a plate.

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TESEO



WIND PROPELLED COMPRESSED AIR GENERATOR

At Hannover Messe 2010 **Teseo** is introducing a global preview, a new product that promises to revolutionize the world of compressed air distribution. It is a wind propelled generator with horizontal rotation axis, consisting of a spindle running on ball bearings, that supports three aluminium blades and is connected to the shaft of an air compressor. This wind propelled generator is mounted on top of a high aluminium framework by means of a swiveling arm. The generated compressed air is carried through pipes to a reservoir at the base of the supporting framework, and then is stored in large pressure vessels. This innovative solution conceived and developed by Teseo offers significant benefits: it uses clean energy from a renewable source at zero cost; it is based on very simple and cost-effective equipment; it is independent of wind direction and it produces energy even at low wind speeds; it allows to store energy as compressed air in vessels; and the whole system is made of aluminium, which is 90% recyclable. The compressed air volume intake is 374 cubic cm/revolution and the maximum operating pressure is 11 bar. The air volume generated at 4 m/second wind speed is 2,300 liters/hour, 4,600 liters/hour at 8 m/second wind speed and 6,900 liters/hour at 12 m/sec wind speed.

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TRANSFLUID



MULTI PUMP DRIVES FOR INDUSTRIAL APPLICATIONS

Transfluid – Italy has introduced a new line of multiple pump drives. Designed to be bolted directly to the engine flywheel housings, these devices are available in three different sizes – MPD 14, MPD 18 and MPD 22 – with SAE 3 to SAE 0 housings. The cast casings are designed to house four heads that allow mounting of up to four pumps or eight units with the back-to-back configuration. The MPD features an integral oil sump for the gear and bearings lubrication. According to the power fed to the PTOs, it is possible to mount a fluid cooler heat exchanger inside the MPD casing or an external air-oil radiator. An elastic coupling from Reich Kupplungen is mounted on the power intake side in-line with the engine crankshaft axis to avoid torsion problems. On the output side, the SAE dummy wheel is capable of transmitting the whole engine power, a feature which is not common to all pump drives. Any make of coupling or PTO with SAE flange can be connected to the Transfluid MPD, however the company internally manufactures the line of KPTO variable fill fluid couplings and HFO / HFR oil actuated PTOs. The MPD is suitable for mobile crushers thanks to the new Diesel engine generation as well as the increasing need of pump drives on machines. The simplicity and the compactness of the system is the key of MPD success.

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VAL-PO-CI



PNEUMATIC FITTINGS AND TUBES

Sang-a Pneumatic Co. produces high quality and reliable pneumatic fittings and tubes. It offers a complete range of products: automatic quick couplings, compact automatic quick couplings, flow controls, rotary joints, stop fittings, unidirectional valves, stop cocks, hand valves, plastic quick couplings, silencers, air guns, pneumatic tubes, assembly fittings and couplings. Sang-a products stand out because of their elliptical sleeve enabling, through light pressure, an easy disconnection of the tube in confined space. They can be used with operating pressures up to 20 bar and are vacuum tight up to 60 °C. Pneumatic fittings are suitable for polyurethane, polyamide, polyethylene, nylon and rilsan plastic tubes having external diameters ranging from 3 to 16 mm with Teflon (R)-metric tapered gas or O-ring (G) parallel gas threads, from M3 to ½... The body is made in brass, nickel-plated brass and technopolymers. In order to meet the requirements of a demanding market, the company delivers high quality products in compliance with Iso 9001 standard. Sang-a products are distributed in Italy by **Val-Po-Ci**, a company located in Mantello (Sondrio).

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WALVOIL



LOAD-SENSING PROPORTIONAL SECTIONAL VALVE

Walvoil introduces the new proportional Load Sensing DPC200 valve suitable to obtain flow towards the spool position in any working condition irrespective of both charge and number of working sections (the only limit is in case of saturation in flow). Taking OEM needs into consideration, with the DPC200 and the Load Sensing system, users can benefit from energy saving, longer component life, reduction of energy dissipation as well as the opportunity to develop elaborated circuits. Energy is especially saved when the DPC200 works together with Load Sensing variable displacement pumps. The sectional valve, supplied from 1 to 10 working sections, can be used in applications with fix displacement pumps (open centre configuration - CA) or with variable displacement Load Sensing pumps (closed centre - CC). Main features include compensated / not compensated working sections and interchangeable spools with 22 mm diameter. DPC200 is supplied with manual control, proportional hydraulic control, electro-hydraulic control and back operating electro-hydraulic control integrating diagnostic, safety and electronic functions. DPC200 can be used for several applications, especially for concrete boom pumps, backhoe loaders, drilling machines, wheel loaders.

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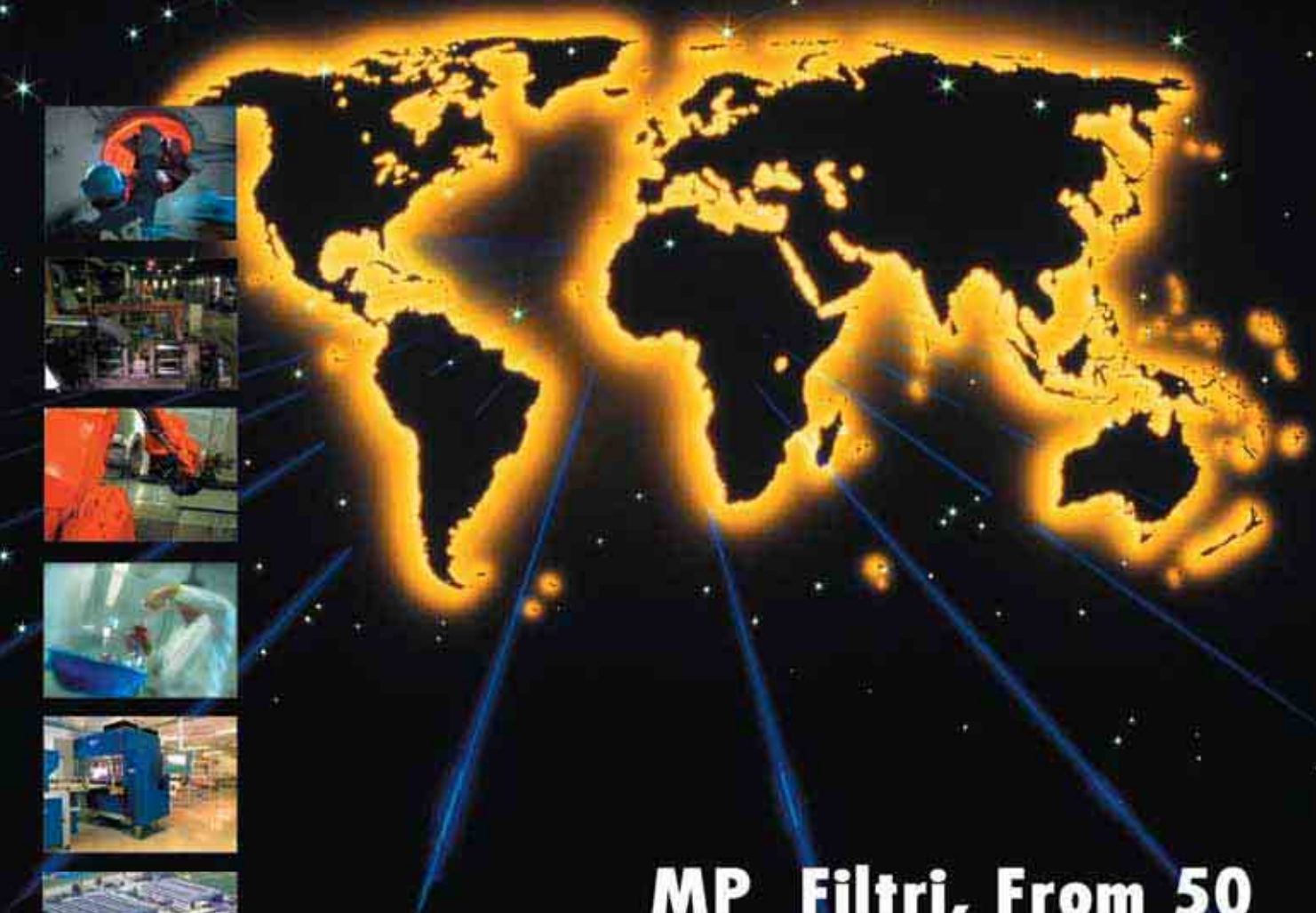
ZEC



LOW, MEDIUM AND HIGH PRESSURE THERMOPLASTIC HOSES

With over forty year experience in the sector of flexible thermoplastic hoses at low, medium, high and very high pressure, **ZEC** offers a wide range of linear, single, multiple and spiral thermoplastic hoses, characterized by inside diameter from 2 to 40 mm, operating pressure from 5 to 600 bar and operating temperatures from -60 °C to +260 °C. Different product lines are supplied: hoses for low and medium pressure, in Rilsan PA11, Rilsan PA12, Ptfte, Pebax, Hytrel, Polyamide 6, Polyamide 6.6, Polyurethane and Polyethylene. They are offered in around 40 different diameters and 7 colours, even in single, doubling or multiple spiral versions, for application mainly in pneumatics and lubrication, depending on the specific requirements of the end user. High pressure thermoplastic hoses are made with raw materials used and tested on low and medium pressure hoses except for specific applications requiring alternative products. Specific single or double plait in polyester fibers, aramide, high tensile steel, stainless steel, or mixed materials are placed to reach the pressures required by oil-hydraulics and pneumatics, lubrication, solvents and paints, gases and chemical products. These hoses are provided either in single, doubling or multiple versions.

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years, we give value**



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HYDRAULIC AND NUMATIC FLOW CONTROL VALVES

FT 267/5
Cartridge mounted
single-acting control valves



FT 270/5
Single-acting pressure
compensated flow control
needle valves



FT 257/5
Single-acting
control valves in line



FT 1251/5
Single-acting control
valves in line female-female



FT3 FO
Stackable valves CETOP 03
flow restrictor valves



FT 2257/5
In line single-acting flow
and shut-off control needle
valves AISI 316

AP 430 E
400V 50/60hz three-phase
air-oil heat exchanger



MS 134 P7
Tube bundle water-oil
heat exchanger



GAUGE ISOLATORS • NEEDLE VALVES • BUTTON PUSH



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TOGNELLA SPA

COMPONENTI OLEODINAMICI PNEUMATICI

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