

NEWSLETTER



Italian
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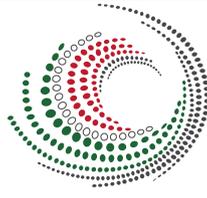
ITALIAN TECHNOLOGY CENTER (ITC) is a network of five Italian capital goods manufacturing companies. This innovative project is promoted by UCIMU-SISTEMI PER PRODURRE (the Italian machine tools, robots and automation manufacturers' Association), AMAPLAST (the Italian plastics and rubber machinery and moulds manufacturers' Association) and ACIMGA (the Italian manufacturers' association of machinery for the graphic, converting and paper industry). The ITC network facilitates a flexible collaboration among leading Italian machinery manufacturers in order to share resources and knowledge with the common aim of strengthening their presence in the Indian market.

Indian companies consider ITC as their first point of reference in India and get an immediate answer/feedback to their queries from the respective Italian companies. Fresh enquiries and technical solutions are also discussed and properly followed-up with the member companies.

The enquiries for other machines/technologies will also be entertained.

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The above office will be presided by Mrs Barbara Colombo (President of UCIMU - Italian Machine Tool Manufacturers Association) through its Indian SPV (Rare Tech Projects Pvt. Ltd. - Mr. Sandeep Chadha (Director); www.raretech.org).



ACiMGA

ASSOCIAZIONE COSTRUTTORI ITALIANI
MACCHINE PER L'INDUSTRIA GRAFICA,
CARTOTECNICA, CARTARIA,
DI TRASFORMAZIONE ED AFFINI

Future Factory 2021: the event will take place on the 15th and 16th of September.



When current events are challenging, Acimga still proves ready to respond and evolve. After announcing the postponement to September, Acimga reveals that **the event will be held on September 15 and 16, live from The Theatre in Milan**, as a physical networking and meeting event combined with the possibility to follow the event in streaming for a wider international audience.

Moreover, the claim for the 2021 edition of Future Factory, **“the future at human service”**, wanted to underline since the very beginning, **the need for a new human centrality mindset**, repositioning individuals at the centre of industrial strategies, as starting point for social and economic shared values. Today, it is essential to pursue financial success and economic growth, while producing positive impacts for society and for individuals on all aspects, including economic, social, and environmental. Such positive impacts also need to be communicated and that is exactly what many global guests will be doing at Future Factory.



The speakers already announced by Matteo Bordone during the April preview are confirmed. **Alec Ross**, Distinguished Visiting Professor at Bologna Business School and senior adviser on innovation to the Secretary of State during the Obama administration, analysing the changing dynamics in the socio-economic context; **Ivana Pais**, Associate Professor in Economic Sociology at Università Cattolica del Sacro Cuore, **together with David Stark**, Arthur Lehman Professor of Sociology at Columbia University, going deep into the economic platform models; **Paola Mariani**, Associate Professor of International Law at Università Bocconi in Milan, looking at economic issues in close relation to international law; **Bertrand Badré**, CEO and founder of Blue like an Orange Sustainable Capital, reflecting on the future of the business organization.

But Future Factory 2021 will display a **wide range of contributions** from inside and outside of the industrial community. **Nouriel Roubini**, leading US economist and founder of RGE Monitor, a firm specializing in financial analysis, visiting researcher and advisor at the International Monetary Fund and the World Bank, will share an inside view of the global economic scenario and the foreseeable future developments. Two **round table discussions between important brand owners and retailers** will deepen the discussion on packaging sustainability and corporate social responsibility, with Alessandra Fazio, Head of Quality Italy & Malta at **Nestlé**; Giuseppe Scicchitano, Packaging Manager at **Henkel**; Paride Banzola, Head of Packaging Development at **Euro Company**; Paola Monica Dimaggio, Private label Manager & Sustainability Coordinator at **Penny Market**; Luca Pereno, Coordinator of Sustainable Development at **Leroy Merlin**; Francesco Mandolini, Head of HSE and Security at **Esselunga**. Also, speakers from Federazione Carta e Grafica: technology manufacturers, such as **Simec Group**, **ACE Electrostatic**, **Uteco Group** and **OMET**, printers, **Sacchital**, **Sales**, **Lucaprint**, **Smurfit Kappa Italy**, and **Rotolito**, together with representatives from leading paper mills.

The **second step of the bilateral sectoral meetings between Italy and Germany, promoted by the Ministry of Foreign Affairs and International Cooperation** in collaboration with the German Ministry of Economy and Energy, will take place during the first day of the event, on the 15th of September. The project saw its kickoff during virtual drupa on the 23rd of April, where Acimga and VDMA exchanged ideas and intakes on Sustainability in the package printing industry.

Through different visions and skills, Future Factory will analyse the global directives which guide the perspectives of human centrality, to better understand the future of new industrial business models. To discover all the speakers and the Future Factory agenda the dedicated website is always up to date on www.future-factory.it/en.

"Once again Future Factory sets a high standard with its rich agenda", says Andrea Briganti General Manager of Acimga. "The 2020 edition saw a great success of audience, reaching almost 1400 participants, a third of which international. The agenda for 2021 covers all aspects of interest throughout the supply chain, while at the same time opening to wider economic, social, environmental and legislative scenarios, creating content and new shared values in view of Print4All, our trade fair of 3-6 May 2022."

Future Factory is organized by **Acimga** (Italian Manufacturers Association of Machinery for the Graphic, Converting and Paper Industries) with the support of **ITA - Italian Trade Agency**, the Governmental agency that supports the business development of Italian companies abroad and promotes the attraction of foreign investment in Italy. **Future Factory is a new dialogue opportunity for the whole sector and is the main event in the roadmap towards the Print4All fair, scheduled on 3-6 May 2022.**

Acimga is the association inside Confindustria representing all printing, packaging, and converting technologies, uniting 82 companies for an industrial sector worth about 3 billion in turnover, 60% of which from exports. Italy is in the top 3 manufacturers for these machines globally (along with Germany and China) with its strengths being mechanical technologies, combined with the latest electronic innovations.

For further information

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PLASTICS, TECHNOLOGIES AND SUSTAINABILITY: ANNOUNCING GREENPLAST **AN EVENT FOR 2022 IN MILAN**

*Promaplast srl – service company of AMAPLAST - presents **GREENPLAST**, a new exhibition/convention dedicated to materials, technologies, and converting processes for plastics and rubber, with a strong emphasis on environmental sustainability, recovery and recycling of materials, and energy efficiency.*

Illustrate and promote the sustainability of a versatile and key material in daily consumption: plastic. This is the motivation for **GREENPLAST**, a new exhibition and convention responding to the need to describe and share best practices in the plastics industry to benefit the environment.

From the 3rd to the 6th of May 2022, Fiera Milano will host the entire plastics and rubber industry in Rho-Pero in an event dedicated to innovative solutions to boost environmental sustainability, energy efficiency, options for Reducing-Reusing-Recycling, and progress towards a circular economy. Companies in the industry have been investing in these areas for years, leading the way as dynamic market players.

GREENPLAST, organized by Promaplast srl, will allow all interested operators – Italian and non-Italian – to evaluate plastics and rubber processing technologies and the new Industry 4.0 paradigm with an emphasis on the Made-in-Italy, which has stood out all over the world for its hi-tech solutions ever since the awakening of an environmental awareness (many years ago and especially in the more developed countries).

The leading Italian and international companies will have the chance to show their **innovative solutions for environmental sustainability** in the halls of the fairgrounds:

- virgin, low-impact, low-carbon-footprint **raw materials**, secondary raw materials, biopolymers, additives
- **semi-finished and finished products** made from innovative, recycled, or biologically sourced materials
- **machinery, equipment, and systems** that combine low energy consumption with high performance, high-efficiency processing and are able to use innovative, recycled and/or biologically sourced materials
- **systems and machinery** for the selection, processing, and recycling of plastics and rubber, both in-line and post-consumption
- **support and consulting services** for plastics and rubber production generally (from injection moulding to extrusion, from blow moulding to thermoforming, etc.) and recovery and recycling
- **public corporations, consortia, and organizations** active in plastics and rubber recycling.

GREENPLAST will feature an international conference, hosting world renowned speakers who will discuss key issues relating to the trade fair: environmental sustainability and the circular economy, especially as they relate to packaging and plastic products.

The event will be held in parallel with **IPACK-IMA**, international exhibition for the packaging industry. The concomitance of the two events is anything but casual: the affinity between the packaging and plastics industries is affirmed by the fact that some 50% of all packaging is made using plastics (trays, bottles, film, etc.), and demand by consumers of packaging for environmentally sustainable products is only growing. The simultaneity of IPACK-IMA and GREENPLAST will thus make it possible to combine the presentation of two different yet **highly complementary** production spheres.

The project will thus promote occasions for contact and development, bringing visitors, especially international ones, into contact with a complete spectrum, thanks to the transversal nature of the two exhibitions and the experience of their respective organizers, backed by the trade associations of the two macro-sectors represented: **AMAPLAST** (Italian Plastics and Rubber Processing Machinery and Moulds Manufacturers Association) and **UCIMA** (Italian Packaging Machinery Manufacturers Association).

Furthermore, the fairgrounds will also host the concomitant **Print4All** (dedicated to commercial and industrial printing), **Intralogistica Italia** (systems for industrial materials handling, warehouse management, materials storage, and picking) and, for the first time in Milan, **Pharmintech** (processing, and packaging solutions for pharmaceutical, nutraceutical, cosmeceutical). These events embody the logic of an integrated supply chain and are an important component of “**The Innovation Alliance**”.

**UCIMU MEETING: IN 2021, THE ITALIAN MACHINE TOOL MANUFACTURING INDUSTRY
REGISTERS A STRONG RECOVERY OF ALL ECONOMIC INDICATORS**

Sesto San Giovanni, 12 July 2021. In 2020, the Italian manufacturing industry of machine tools, robots and automation systems reported a considerable fall of all main economic indicators. Nonetheless, it was able to maintain the positions gained in the international rankings of the sector, where it confirmed its **fourth place among manufacturing countries and among exporting countries and its fifth place in the ranking of consumer countries, as a testimony to the importance of the Italian market in the international scenario.**

The year 2021 is showing a completely different trend, confirming the recovery of business activity, both in Italy and abroad, since the first months, as highlighted by the data regarding the index of orders in the first half year 2021 and based on the forecasts for the year end.

This is in brief the framework illustrated by the president of UCIMU-SISTEMI PER PRODURRE, **Barbara Colombo**, this afternoon, on the occasion of the Annual Members' Meeting, which was attended as speakers by **Gregorio De Felice**, Chief Economist of Intesa Sanpaolo, and by **Mauro Alfonso**, Managing Director of SIMEST.

THE FINAL RESULTS OF 2020

Heavily hit by the public health emergency outbreak in the first months of the year, the Italian industry of the sector experienced a strong downturn of all main economic indicators in 2020.

According to the final data processed by the Economic Studies Department & Business Culture of UCIMU, in **2020, the output of machine tools, robots and automation systems reached 5,182 million euro, recording a 20.4% fall versus 2019.** The outcome was due both to the reduction of **manufacturers' deliveries on the domestic market, down by 20.3% to 2,321 million euro**, and by the downturn of exports, which amounted to **2,861 million euro, i.e. 20.5% less** than in the previous year.

In 2020, the main export markets for the Italian product offering were the United States (374 million euro, -11.3%), Germany (289 million euro, -23.1%), China (224 million euro, -26.1%), France (158 million euro -32.2%), Poland (143 million euro, -17.2%), Turkey (100 million euro, +29%), Russia (100 million euro, -16%), Spain (95 million euro, -34.1%).

In 2020, the **Italian machine tool consumption collapsed by 26.6% to 3,561 million euro**, continuing the negative trend started in 2019.

THE FORECASTS FOR 2021 AND THE ORDERS IN THE FIRST HALF YEAR 2021

The year 2021 is having a completely different trend, showing signs of a strong recovery since the first months.

Forecasts for 2021

Based on the **forecasts** elaborated by the Economic Studies Department & Business Culture of UCIMU, **the output of machine tools, robots and automation systems should grow by 10.9% to 5.7 billion euro. Exports should attain 3.1 billion euro, i.e. 9.4% more than in the previous year.**

Consumption should also increase, almost reaching 4 billion euro, corresponding to a 10.9% rise versus 2020. The dynamism of Italian demand should drive the deliveries of manufacturers, expected to go up to 2.6 billion euro (+12.7%), and imports, which should amount to 1.3 billion euro (+7.6%).

Orders in the first half year 2021

In order to understand the climate of trust arisen in these first months of the year, we can observe the index of **orders in the first half year of 2021**, elaborated by the Economic Studies Department & Business Culture of UCIMU. The index registers the collection of orders in the domestic and foreign markets by Italian manufacturers. Considering the manufacturing lead time of machines, the acquisition of these orders will reasonably be “calculated” in the output/turnover of 2022.

In the first half year of 2021, the index of orders highlighted an 88.2% upturn. This result was due to the good performances recorded by the manufacturers both in the domestic and in the foreign markets. In particular, domestic orders grew by 238% compared with the period January-June 2020; foreign orders reported a 57.5% upturn versus the first half year of 2020. These really positive data are attesting to the restored climate of trust, which the Italian enterprises of the sector are increasingly experiencing as the months go by. This said, the increases seem so significant, also because they are compared with the period January-June 2020, which, besides the general activity reduction owing to the pandemic, includes a whole month (April) of complete stop in business activities due to the Covid lockdown.

COMMENTS AND PROPOSALS OF INDUSTRIAL POLICY

Barbara Colombo, president of UCIMU-SISTEMI PER PRODURRE, stated: “The final data of 2020 are a clear testimony to the effects of this very serious pandemic and unexpected public health emergency, but it is **evident that the year closed with results above our initial expectations. We were able to contain the output fall to no more than 20% less than the previous year, which allowed us to have better performances than those of our competitors, such as Germany and Japan**”.

“The year 2021 seems to have a completely different trend: **there is a climate of growing trust, which has been strengthening month after month, as emerged from the data regarding the collection of orders. We expect that this trend will culminate in October, on the occasion of EMO MILANO 2021, the world exhibition regarding the sector, which will be the first international trade show after one year of forced stop**”.

“Nevertheless, – stressed **Barbara Colombo** – there are unfortunately two phenomena that may undermine the ongoing recovery: on one hand, the **increased costs of raw materials** and, on the other hand, **the scarce availability of electronic components. The risk – which we cannot absolutely afford to run – is that these two phenomena may slow down the positive cycle of investments, especially on the domestic market, where the incentives 4.0 are giving good results**”.

“The upgrade and digitalisation process of plants that has already started about five years ago cannot certainly stop, as much is still to do. The results of the survey conducted by UCIMU-SISTEMI PER PRODURRE on “The total machine tools in operation in the Italian industry” and presented in June are an evidence of this.”

In particular, in the period 2015-2019, 60,000 new machine tools were purchased versus 39,000 new machines purchased in the previous five-year period, i.e. 50% more.

Beside the increased number of machines, there was a qualitative improvement of the total machinery. Indeed, more than 60% of these 60,000 new machines are numerical control (CNC) machinery. In the previous five-year period, the share of new purchased CNC machines did not exceed 37%. There was an increase in the **automation and integration level of plants. In particular, IT integration, related to the policies 4.0, registered the most significant rise.**

The digital transformation and the technological upgrade mainly concerned large and mid-sized enterprises. The small-sized companies made investments in new technology, but only to a limit extent. Nevertheless, it is clear that it will take longer for the smaller enterprises to keep up with this transformation than for the bigger ones. There are at least two reasons for that: **the first one is linked to available funds.** Investments in new production technologies, especially in state-of-the-art equipment, are very onerous, and weigh on the budget of small enterprises, which must consequently spread their purchases over longer periods. **The second, not less important reason is related to culture:** it takes time to understand all the mechanisms connected with this transition and overcome the fear of thinking about reorganising the way of working.

“These data and these observations – added the president of UCIMU-SISTEMI PER PRODURRE – prove the effectiveness of the provisions included in the plans of industrial policy. Moreover, they confirm that **incentive measures, such as tax credit for the upgrade of plants and that for investments in technologies 4.0, should not only continue for the whole year 2022, but should also become structural**”.

With regard to training and education, we ask to **extend and simplify the operativeness of the tax credit measure for education and training**, which, today, also includes the cost for the trainer in the calculation, in order to ensure the enterprises (of all sizes) an appropriate support for requalifying their employees.

Only in this way, investments in state-of-the art technologies will really ensure the enterprises an improvement of productivity and the necessary efficiency to win the international challenge.

After all, it is fundamental to **employ qualified young people in the companies of the sector, both among white and blue collars.** Young people were born with digital technologies close at hand and therefore, they are naturally inclined to use a new working model. They are more flexible and have cross-cutting skills that are essential now for those operating in sectors characterised by a highly technological content and highly complex business like ours.

In 2020-2021, 831,000 students enrolled in technical institutes, corresponding to 30% of the total students in high schools. On the contrary, only 18,000 students enrolled in the 110 ITS-Higher Technical Institutes (requiring a high-school degree for access). They are not enough considering the real need expressed in the Italian metal mechanical industry.

“An important response to the enterprises’ need for qualified staff will certainly come from the funds provided for in the PNRR for investments destined for the **ITS Institutes**, so that they can be equipped with technologically advanced laboratories and infrastructures and with class rooms 4.0. **If adequately supported, the ITS Institutes will become real specialised centres for the education and training of the new essential human resources to ensure a future for our enterprises**”.

Finally, with reference to the issue of **internationalisation**, what is strategic for the business activity on the international market is the **participation in exhibitions**, which are the first and most important marketing and promotion instrument for the companies of the sector.

“In this connection, - concluded **Barbara Colombo** – we hope that, even in future, there will be available SIMEST funds given as easy-term financing and non-repayable grants for the enterprises’ participation in international trade shows. In addition, we ask that, even in future, funds will be made available to ICE-Italian Trade Agency for incoming projects of foreign operators taking part in international exhibiting held in Italy”.

Sesto San Giovanni, 12 July 2021

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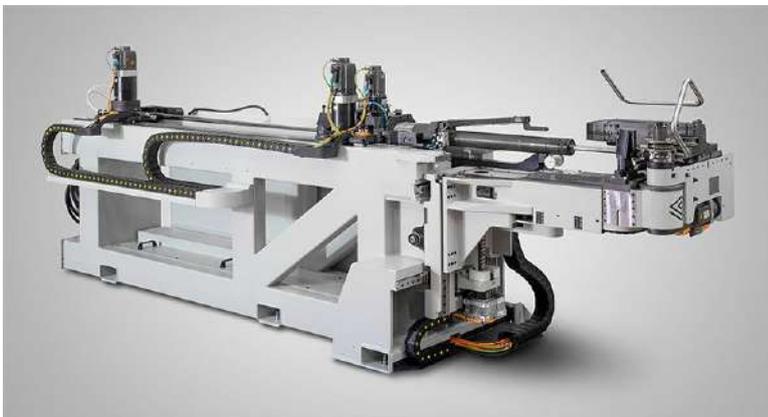
A compact bending head to produce new geometries

In the **furniture** and similar sectors, where the tubes to be bent are often very long and curved into sometimes particularly complex shapes, the bending head must take up as little space as possible to leave room for the shape that the bent tube will assume.

On tube bending machines with **right and left-handed bending directions**, this need is much less urgent because the possibility of using one or the other bending direction solves many problems of interference between the tube and the other machine parts but this is not the case on tube bending machines with only one direction of bending. The only way to avoid the risk of interference in the latter case is to reduce the overall dimensions of the bending heads as much as possible.

Precisely to meet these requirements, the BLM GROUP developed a new compact bending head for the **ELECT40**, capable of executing **shapes that were previously not possible with only one bending direction**. It is clear that for some parts using a right or left-handed in-process tube bending machine is the only way to be able to produce the parts in a single cycle.

Discover the BLM GROUP E-TURN in-process right-hand and left-hand bending



ELECT40 all-electric tube bending with extended bending head.

The two characteristics that a tube bender must have to improve part feasibility?

The fundamental aspects taken into account when **designing the tube bending head** to deal with geometries that were previously not feasible were:

- **reduced height of the bending head;**
- **greater distance of the bending tool from the machine body.**

Reducing the bending head height means that, bend after bend, the tube can move below it. Also, as shown in the figure below, the thinner the head, the more the straight part between the bends can be reduced.



Bending a tube with ELECT40. The small size of the bending head allows the tube to occupy the space below the head.

Increasing the **distance of the bending tool from the machine body** reduces the chances of the tube colliding with the **frame**. When working with only one bending direction, the **rotation of the tube in the clamp** allows bends to be made in two specific directions. So it is essential to be free to **orient the tube to be bent in space without collisions**, even when the part has straight parts of considerable length that end up facing the machine, bend after bend.

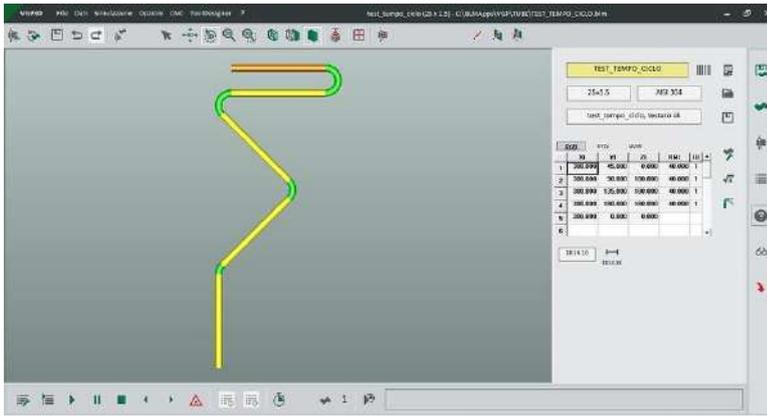


Increasing the distance of the bending tool from the machine body reduces the chances of the tube colliding with the frame.

The two aspects discussed above are the main features of the ELECT40 elongated bending head, which is **35% lower and 31% longer** than the standard head.

The design of the dedicated kinematic mechanisms of the head has also enabled an **increase in the speed of both the bending arm (+20%) and of the clamp and the pressure die (+25%)**. Furthermore, a reduction in the cycle time of about 10% can be achieved on a typical part with four bends, as pictured below.

As is already the case with the standard head of the ELECT40 and the other **tube bending machines in the same BLM GROUP family** – ELECT52, ELECT63, ELECT80 and ELECT102 – the elongated bending head of the ELECT40 also allows **manually changes of bending direction from right to left and vice versa** and the use of the same compatible **bending tools** on all other **BLM GROUP bending machines** of similar size.



Part with four bends comparing the cycle times between ELECT40 tube bending machines with standard head and the ELECT40 tube bending machines with an extended head.

Products requiring a bending head with minimum dimensions

The design of the elongated bending head of the ELECT40 can make all the difference and allow parts to be made that were previously only possible with **in-process left and right-handed tube bending machines**.

This is firstly an advantage regarding greater parts feasibility, especially for manufacturers who want to approach the **furniture** sector, for instance, in which tubes must be bent into complicated and overly varied shapes, for manufacturers making tube parts for various types of industrial systems, for the nautical sector (handrails, ladders, etc.) and for **farming machinery and equipment**.



Designer stool made with ELECT40 tube bending machine with extended bending head.

For manufacturers who already have an in-process right and left-handed tube bending machine, this solution can be an advantage in terms of **production organization**, by allowing the manufacturer to reserve the most complex parts for the in-process right and left-handed tube bending machine and send parts of medium complexity to the ELECT40 with an extended head.

A solution like this can prove to be a winner, especially for **subcontractors** who generally have mixed productions in terms of part complexity.

Contact us to discover more about the new ELECT40 bending head

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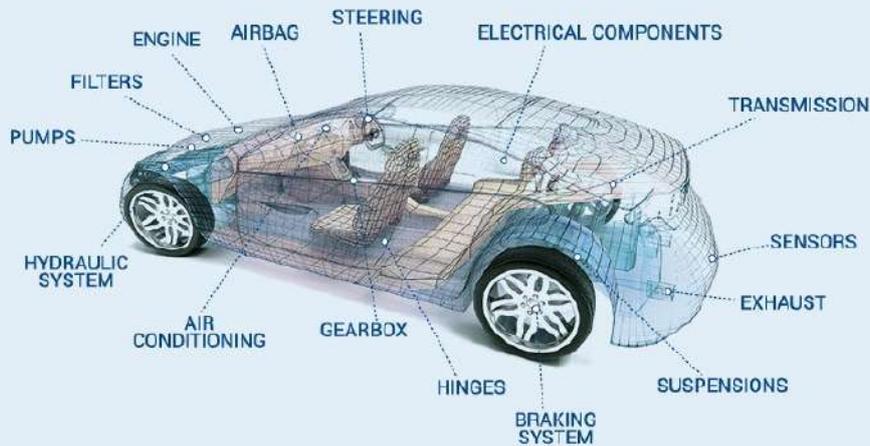
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Losma coolant filtration systems are suitable for a wide range of coolants and they are used in many industrial processes. They are perfect for all customers' needs and guarantee safety and security of workplace, as well as the reduction of waste of expensive coolant and housekeeping expenses.

Master series is composed by three different sizes: Mini-Master, Medio-Master and Master, whose distinctive marks are defined by high performances and the greatly reduced size - compared to other products with the same capacity - very important features in the design of centralized systems (Master's overall dimensions are significantly smaller and can achieve greater levels of filtration).

Master series is available in 4 models, able to manage flowrates from 200 to 1000 l/min of neat oil and from 400 to 2000 l/min of water-based emulsion, contaminated by magnetic or non-magnetic particles.

Master's operation is simple and its efficiency is stable and constant. Moreover, Master is equipped with a corrugated chain and lateral discs, which guarantee the perfect seal of contaminated liquid in the filtering section.

Master can be equipped with numerous accessories, such as: magnetic prefiltration, collecting tank, transfer tanks, and superficial oil skimmer. This type of filter is suitable for cooling and lubricant liquids used in many industrial processes, such as: drawing, milling, polishing, grinding and washing amongst others.

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12th DIE & MOULD INDIA INTERNATIONAL EXHIBITION

27th April to 30th April 2022

Bombay Exhibition Centre, Goregaon, Mumbai, India

Contact us



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Company Names	Details of Machineries	Companies logo
BLM S.p.A	Tube processing machines (Laser Tube cutting, CNC Tube bending, end-forming, automatic sawing, tube/bar cutting and end-machining), Wire bending machines, Five Axis Laser cutting machines, Laser sheet cutting machines.	
BUFFOLI TRANSFER S.p.A	CNC Rotary Transfer Machines (Bar or Blanks), complete with automation, robotic and gaging systems. IoT (I4.0) technology and software	
FICEP S.p.A.	CNC lines for the processing of profiles and plates for the steel construction industry (drilling, milling, marking, scribing, sawing, plasma and oxy cutting, punching, shearing). Hydraulic, mechanical and screw presses, shears, saws and automation for the forging industry	
LOSMA S.p.A	Air filtration systems and coolant filtration systems for machine tools	
MILLUTENSIL S.r.l	Die & Mould spotting presses, dies splitters for splitting, equipment for presses, coil lines, cut to length line (CTL)	