

NEWSLETTER



Italian
Technology
Center
India



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ABOUT US

ITALIAN TECHNOLOGY CENTER (ITC) is a network of eight 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 Dr. Giancarlo Losma (Immediate Past President of UCIMU - Italian Machine Tool Manufacturers Association) through its Indian SPV (Rare Tech Projects Pvt. Ltd. - Mr. Sandeep Chadha (Director); www.raretech.org).

Rotogravure and the future of packaging to be the focus of upcoming events in Italy

Two events, one focusing on Italian rotogravure technology, the second providing a wide perspective into the future of communication and packaging with international guests of great renown: introducing Roto4All and Print4All Conference “Future Factory”.

Roto4All will take place in Florence on March 27th 2020, following a networking dinner held on March 26th and set against the fabulous backdrop of Grand Hotel Baglioni’s B-roof restaurant. The event will discuss the total cost of ownership of a rotogravure machine, how many printers use roto technology in packaging and the state of health of the rotogravure packaging market. Technology manufacturers, printers and brand owners will also be examining the strengths of rotogravure technology.



Print4All Conference “Future Factory” is scheduled on May 18th and 19th in Milan’s IBM Studios. The event will focus on innovation, sustainability and Industry 4.0. 2020 marks the 4th edition of the conference on the future of packaging, which will gather all the major players in the industry and feature far-sighted yet pragmatic speeches providing invaluable insight into the future trends in packaging, graphic and industrial printing over the next few years.



The two days of meetings will include talks by world-famous speakers as well as the participation of top foreign industry associations, which will compare notes with the leading players in the Italian industry. India will be represented by a large delegation contributing to the event with prominent speakers and outlining India’s path to innovation and sustainability in printing to the audience.

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Acimga is the association of Italian manufacturers of machinery for the graphic, paper and converting industry.

LESS-THAN-ENCOURAGING FULL-YEAR FORECAST
for Italian manufacturers of plastics and rubber processing machinery

A **negative year-end result** is expected for the Italian plastics and rubber processing machinery industry as reiterated in the foreign trade data just published by ISTAT (Italian National Statistical Institute) for January-September, analysed by the Amaplast Studies Center.

The statistics show a continuing **slump in the two trade flows**: -13.1% for imports (overall value of 645 million euros) and -8.5% for exports (just below 2.16 billion euros) with respect to the first nine months of 2018.

Extending our gaze to the previous quarterly results, we observe a **downturn that is less accentuated for imports**, which had fallen by nearly 17 points in June and 20 points in March.

Exports, on the other hand, tended to seesaw: the September results represent a new worsening with respect to the -5% in June, which had partially shored up the losses of -8% in March.

The balance of trade remains fully positive – well over 1.5 billion euros – but nevertheless has contracted by six percentage points.

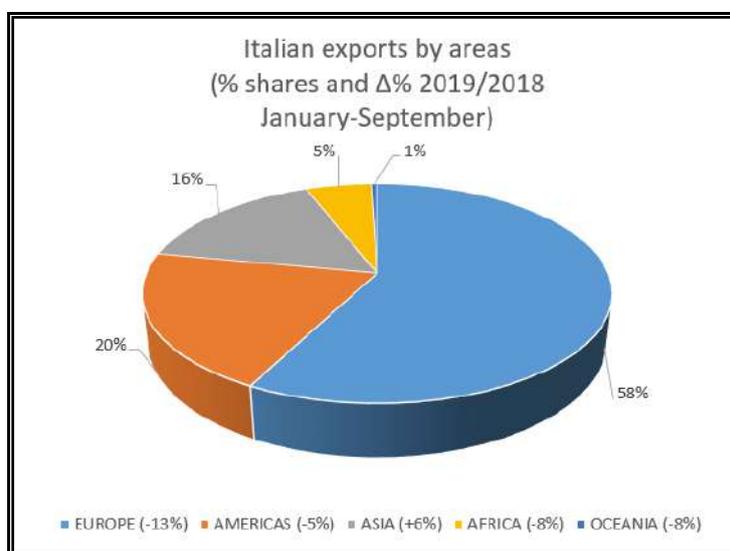
The **many issues and unknowns characterizing the current world economic climate**, compounded by the announced but as yet poorly defined legislative and fiscal measures aiming at reducing the use of plastics, have begun to affect the Italian machinery manufacturers, who are expecting negative year-end results across the board.

Italian market for plastics and rubber machinery, equipment and moulds ($\Delta\%$ 2019/2018)	
production	-9
exports	-8
imports	-15
domestic market	-12
trade balance	-5

“Speaking with my colleagues in the machinery manufacturing industry,” comments Amaplast President Dario Previero, “I note a certain amount of **concern deriving from the less-than-encouraging prospects for both the domestic and foreign markets**. However, we must not overlook the fact that this slump – whose first signs were seen in the year-end results for 2018 – comes after a long period of growth. With the sole exception of 2013, we have witnessed seven years with a plus sign that strengthened the industry and allowed companies to invest in research and development in order to offer their customers increasingly technologically advanced solutions.”

Previero continues: “It is no simple matter to understand whether this is a cyclical recession or a structural weakening of the sector. It is mainly the **diffuse uncertainty** – economic, political, commercial – that induces an increasingly marked tendency in our customers to reduce or defer investment. Of course it is true that the recent K in Düsseldorf gave us a gasp of air, but many companies complain of rather meagre results in their order books. It is thus **difficult to venture a forecast for 2020**, which could be a year of great volatility if the political and economic uncertainties that have plagued us in 2019 are not cleared up. I would also add that the theme of the circular economy was prominently featured during the German tradeshow. This great challenge could transform into **significant opportunities for development** for Italian manufacturers of plastics and rubber processing machinery, who are increasingly ready to market systems within an Industry 4.0 perspective, with production cycles characterized by energy savings and ability to process recycled plastics.”

In the figure and table below, we indicate the main geographical areas and export markets for Italian plastics and rubber processing machinery.



Top ten destination markets for the Italian export of plastics and rubber machinery, equipment and moulds (000 euros – January-September)

	2018	% out of total		2019	% out of total	Δ% 19/18
Germany	337,448	14.3	Germany	270,227	12.5	-19.9
United States	194,672	8.3	United States	223,877	10.4	15.0
Poland	122,072	5.2	Spain	112,571	5.2	-3.3
Mexico	118,768	5.0	China	111,938	5.2	32.4
France	117,033	4.9	Poland	107,753	5.0	-11.7
Spain	116,403	4.9	France	99,888	4.6	-14.6
United Kingdom	88,673	3.8	Mexico	90,921	4.2	-23.4
China	84,558	3.6	United Kingdom	69,565	3.2	-21.5
Czech Republic	72,235	3.1	India	58,947	2.7	-5.7
Turkey	69,866	3.0	Czech Republic	55,111	2.6	-23.7
total 'top10'	1,321,728	56.1	total 'top10'	1,200,798	55.6	-8.6
other countries	1,036,370	43.9	other countries	956,551	44.4	-8.4
world	2,358,098	100.0	world	2,157,349	100.0	-8.5

Looking further down in the rankings, it is worth noting the following results regarding outlet markets that have been historically relevant for Italian plastics and rubber processing machinery manufacturers:

- neighbors Austria and Switzerland registered -24% and -28%, respectively
- the -30% for Turkey is not particularly surprising, given the country's uncertain economic situation and the poor performance of the local converting industry, which also pushes Turkish manufacturers to concentrate more on exports. We must also keep in mind the effect of the devaluation of the Turkish lira starting in August 2018
- Russia recorded a further slide of 19 points, following on the recently-witnessed double-digit decreases
- Brazil showed a weak +1% after the +5% in June, which had raised hopes. Argentina is also worthy of note in the South American markets with +8%, although it represents a drop from the +18% of June

as regards Asia, there are clearly encouraging sales trends in two weighty markets – Thailand (+24%) and Indonesia (+39%) – while that in the equally important South Korean market has fallen by 31%. As for India, in the first 9 months of last year, Italian sales to Indian plastics and rubber processors have almost reached 59 million euros (-5,7% on the same period in 2018), mainly extruders flexographic machines and machines for reactive resins.

- among the main markets on the African continent, we must distinguish between the Mediterranean countries – where only Tunisia shows positive results (+57%) as Morocco (-11%) and Algeria (-38%) fall further back – and Sub-Saharan Africa, where South Africa records a very modest +2%
- in the Middle East, excellent results are seen in Saudi Arabia (+33%) and the Emirates (+86%), while the collapse of sales to Iran continues to represent heavy losses (-64%).

As regards imports of machinery into Italy, we observe a general decrease in purchases from European partners, for example:

- Germany -30%
 - Austria -13%
 - France -30%
 - Switzerland -35%
- and a simultaneous rise in purchases from the two principal Asian suppliers:
- China +14%
 - Japan +33%.

Registration opened on 12 November for the upcoming edition of **PLAST-International Exhibition for Plastics and Rubber Industries**. Organized by Promaplast srl, the Amaplast operations company, the fair will take place in Milan from Tuesday the 4th to Friday the 7th of May 2021.

Organization of the principal European tradeshow for the sector in 2021 is thus in full swing. Together with the four concomitant exhibitions in **The Innovation Alliance** (IPACK-IMA, MEAT-TECH, PRINT4ALL, and INTRALOGISTICA ITALIA), it will compose the year's most important event dedicated to the capital machinery market.

Those registering by the early deadline (**10 February 2020**) are entitled to a 20% discount on the admission fee and will also benefit from priority stand assignment.



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METAL CUTTING, METAL FORMING AND ADDITIVE MACHINES,
ROBOTS, DIGITAL MANUFACTURING AND AUTOMATION,
ENABLING TECHNOLOGIES, SUBCONTRACTING



**APPLICATIONS TO EXHIBIT AT 32.BI-MU OFF TO A GOOD START.
TEN MONTHS BEFORE THE DEBUT, THERE ARE ALREADY OVER 460 EXHIBITING COMPANIES.
7.5% OF THEM ARE NEW EXHIBITORS.
INCREASING EXHIBIT SURFACE AREA.**

THE EVENT WILL BE AT FIERAMILANO RHO FROM 14 TO 17 OCTOBER 2020

Already 466 companies have sent their applications to exhibit at 32.BI-MU, the international exhibition of reference in Italy for the machine tool sector, held at fieramilano Rho from Wednesday 14 to Saturday 17 October 2020. It will document how the matching between manufacturing world and digital technologies is accompanying the development of the industry, also according to the new principles of circular economy. To date, the number of exhibiting companies has increased by 3.5% compared with the number achieved in December 2017 for the previous edition of BI-MU.

Considering the total exhibitors, there are **194 foreign enterprises**, representing **21countries**. Even this figure has grown by 10%, thus confirming the international propensity of this trade show, which will be able to attract the attention of Italian and foreign operators, also thanks to its renewed technological index of products and its numerous novelties.

Another interesting figure regards the **presence of new exhibitors**, who are currently **7.5% of the total**.

Even the exhibit surface area has increased: with 21,300 net square meter already booked, the partial exhibit surface area is almost 10% larger than that booked in December 2017.

Not only metal forming and metal cutting machine tools, additive manufacturing, robots, automation, enabling technologies, but also subcontracting and logistics: this is the heart of the new BI-MU that will present the world of “Digital technologies for sustainable production”.

Alfredo Mariotti, General Manager of UCIMU-SISTEMI PER PRODURRE stated: “A mirror of the changes and transformations characterizing the manufacturing industry, 32.BI-MU will show the best solutions related to “the factory of the future”. Therefore, it will be an unmissable meeting for end users that, in Italy for the whole year 2020, will be able to benefit from three different tax credits linked with the investments in production technologies, software and R&D. Undoubtedly, the context is not as positive as that of the past edition of the biennial machine tool exhibition,

But we, the organisers, aim to repeat the same satisfactory result of two years ago”.

“On the other hand, also thanks to these tools – added **Alfredo Mariotti** – according to the forecasts processed by the Studies Dept. & Business Culture of UCIMU, in 2020, **despite a further contraction, the Italian consumption of machine tools should however remain on excellent levels, with values above 4.3 billion euro, all to the benefit of those who will exhibit at BI-MU”.**

Promoted by UCIMU-SISTEMI PER PRODURRE and organised by EFIM-ENTE FIERE ITALIANE MACCHINE, in the 4 halls booked for the event, 32.BI-MU will propose the best international products with regard to metal forming and metal cutting machine tools, additive manufacturing, robots, automation, auxiliary and enabling technologies, subcontracting, powertrain and fluid-power systems, mechatronics, surface finishing treatments, tools, components, equipment and accessories, metrology and welding, IoT, Big Data, analytics, Cyber Security, Cloud Computing, Augmented Reality and system integrators, vision systems, software, solutions for industrial material handling and warehouse management.

After over 60 years of exhibition evolution keeping up with the technological transformation of the sector, today BI-MU is more and more a meeting point between production systems and digital world.

After all, data management and interconnection of machines are crucial factors for a sustainable management of production cycles in a factory, which translates to higher profitability, smart use of resources and enhancement of safety systems, **according to the approach of circular economy that will be among the hot topics of 32.BI-MU.**

Energy streamlining of machines, optimization of production downtime, modular design in the designing phase, predictive maintenance: these are only a few of the technological issues that **will make their debut at 32.BI-MU, together with integrated solutions for industrial material handling, warehouse management and storage of goods, thus enriching the event with new contents.**

For the edition number 32 of BI-MU, the organisers have worked on several new initiatives that will increase the exhibitors' and visitors' appeal of BI-MU. Indeed, in this edition, the exhibition will include two new sectors, which are inherently contiguous and complementary to that of machine tools: the logistics sector, occupying **BI-MU Logistics**, a special area developed **in cooperation with INTRALOGISTICA ITALIA**, and the sector of technical subcontracting and services for the industry, hosted in the new **SUB4TECH**, an area promoted by CIS - Comitato Interassociativo Subfornitura, (Interassociative Subcontracting Committee).

In addition, there will be **FABBRICAFUTURA**, the area of BI-MU that will be dedicated to host developers of software and technologies for connectivity and for data management and safety; **ROBOT PLANET**, an innovation area supported by SIRI (Italian Robotics and Automation Association) and focused on industrial and collaborative robots, integrators and automation systems; **BOX CONSULTING**, a space reserved for consultants and integrators; **BI-MU STARTUPPER**, an area dedicated to young innovators and new enterprises, involved in the development of products and projects linked to the world of production systems and metalworking; **BI-MU ADDITIVE**, a space developed by AITA-ASSOCIAZIONE ITALIANA TECNOLOGIE ADDITIVE (Italian Association of Additives Technologies) and intended as a place where developers, manufacturers and customers of "machine tools of the third kind" can meet and exchange views; **FOCUS MECHATRONICS**, the traditional area organised in cooperation with AldAM (Italian Association of Automation and Mechatronics) and IMVG (Italian Machine Vision Group) to host "smart solutions", capable of optimising machinery management and industrial processes; **THE WORLD OF SURFACE FINISHING AND TREATMENTS**, a thematic area - sponsored by Anver (Italian Association of Industrial Coaters) - dedicated to the most qualified offering of machines and systems for surface finishing and treatments.

Another great novelty of 32.BI-MU is **BI-MUpiùDigital**, a demonstration space promoted by Fondazione UCIMU in cooperation with **MindSphere World Italia** and set up within one of the exhibition halls to show the potential of a digital factory, by connecting several machines displayed at different stands, where it will be possible to observe their operation and processing.

Following on from the success of the past edition, again in 2020, BI-MU will combine its exhibition with a thematic, in-depth cultural analysis, developed through a programme of conferences on specific topics and through side events that will host discussions with opinion leaders and presentations of technologies related to the sector. The protagonists of the events, mainly addressed to visitors, will also be the Exhibitors, who can be involved on the stage in special initiatives, insight opportunities focused on specific issues linked to the world of the manufacturing industry and ad hoc meetings to encourage the sharing of know-how. This and much more will be the content performed within the arena of **BI-MUpiù** and **BI-MUpiùAdditive**, which will offer the international public many more reasons to take part in this biennial Exhibition.

In anticipation of 32.BI-MU, the organisers have planned a calendar of **approaching events** taking place in some of the major industrial areas in Italy, which will partially anticipate the main technological issues analysed during BI-MUpiù in the exhibition days. The first event, dedicated to the world of Additive, will be in Naples on 13 February, with “More Additive. Design, make and test for Additive”. The second event, dedicated to the sector of the automotive, will be at the headquarters of Dallara on 20 February, with “Focus Automotive: the evolution of the car between road and races”.

The programme of approaching events and the information concerning participation and details of the exhibition will soon be available on bimu.it.



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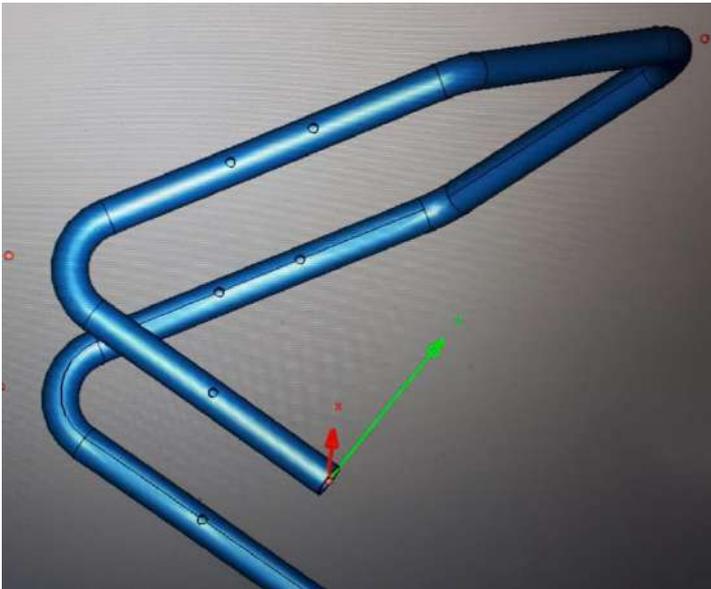
Filippo Laonigro, Technical Press Office, +390226255.225, technical.press@ucimu.it



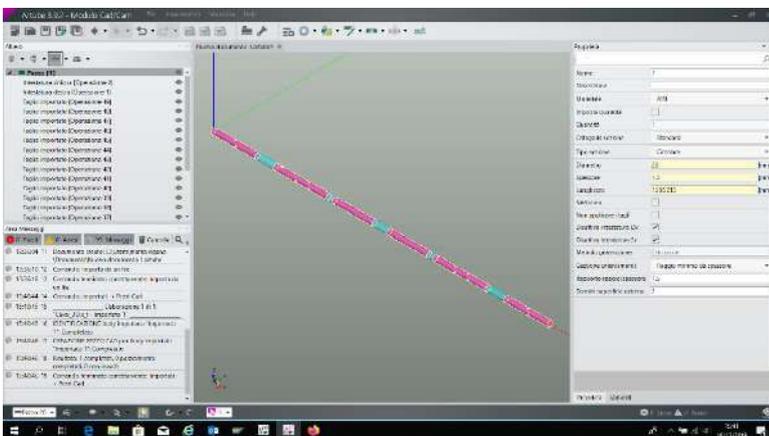
BLM Group presented their ALL IN ONE technology in the INTERNATIONAL SEMINAR ON FORMING TECHNOLOGY that was organized by IMTMA on the occasion of IMTEX 2020. The ALL IN ONE technology allows a user to first cut a piece of tube on BLM GROUP's laser tube cutting machine (including holes, slots etc) and then bending the same on BLM GROUP's ALL ELECTRIC CNC tube bending machine in such a way that the previously cut holes are at desired positions after bending. These results are achieved by automatically transferring information about spring-back and elongation between the two machines.

All the advantages of this technology were described in details. There are certain limitations of this technology (for example the holes on the bend area can't be cut before bending because those would get distorted or the tube would break at those locations) which were explained.

The following part was used as an example:



The holes have to be perfectly aligned after bending because three SS rods need to pass thru' these holes.



Straightened part ready for laser cutting.

Final bent component with corrections for spring-back and elongation.



If these corrections are not applied the result would have been like shown in the following picture:



The real bent part with passing SS rods were presented during the seminar that showed the accuracy of laser cutting and bending.

Please contact us for complete presentation.

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LOSMA presents new Galileo Extra with X-View sensor

LOSMA, leader in the design and construction of filtration systems for air and liquids for the mechanical and machine tools industry, presents a new **range of air filters equipped with sensor: Galileo EXTRA and X-view.**

More filtration efficiency and more static pressure are the results of the new Galileo EXTRA, the NEW patented filtration system for mists, vapours and fumes generated by manufacturing applications. Available in **5 models** with flow rates from 245 to 2,750 m³/h, Galileo EXTRA technology combines **static and dynamic filtration** to ensure maximum efficiency. It is equipped with a new turbine that aspirates oil mists and polluting particles in the air, which join together and return to the liquid state due to centrifugal force. Before being returned to the environment, the air passes through a new multilayer filter capable of retaining even the smallest particles.



Among the advantages of Galileo EXTRA there are also its **compact dimensions** and its very **low power consumption.**

Galileo EXTRA also ensures quick, **simple maintenance:** you only need to periodically replace the filters through the special lightweight, handy inspection cover.

Innovative design: Galileo EXTRA combines Italian design with the most modern technologies.

Galileo EXTRA can also be combined with the new **clogging sensor X-View** (patent pending). This new generation sensor indicates the **clogging status on the filters**, simply and immediately signalling when they need to be changed, thanks to its **LED light signalling system.** Thanks to its Self-learning function, it will automatically set its starting point to the flow, no matter which is the condition of installation.

X-View internal software can also detect if the air filter has immediate or progressive fluctuations in flow due to eventual piping obstruction or malfunctions.

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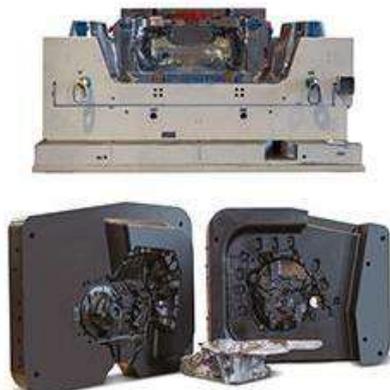


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OMERA Trimming Beading Machine R400 with robot

OMERA has been producing machines for the sheet metal forming sector since 1951, offering a complete range of mechanical and hydraulic presses as well as trimming-beading machines and turnkey automatic lines.

OMERA is constantly present in the sectors of gas cylinders, expansion tanks, pressure vessels and cookware. We also count a substantial number of customers in the fields of magnetic plate blanking, water pipes and ventilation, and have an important and consolidated experience in automotive and household appliances.



OMERA Trimming Beading Machine R400 with robot

Here, we present our robotized work island interlocked to our trimming-beading machine for the processing of fittings for the ventilation sector. The work island, equipped with a robot, is a solution that allows the automatization of the production process, responding to an ever-increasing need for automation.

In addition to the automated loading and unloading operations, the trimming machine performs the automatic clamping of seals and carries out stiffening ribs on the cylindrical body.

For more information and further requirements, visit our website www.omeracom or contact us at the following address: info@omeracom

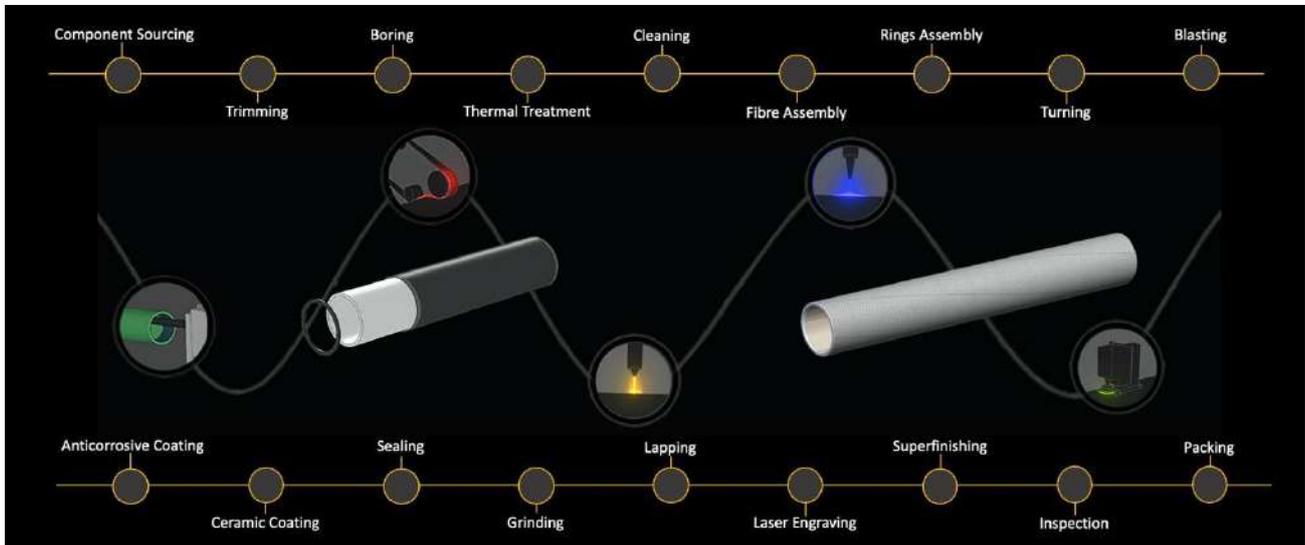
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***The SIMEC GROUP workmanlike manner manufacturing:
18 steps to manufacture our laser engraved anilox sleeve.***



The **Product Customization** is a pillar of SDB, the acronym for Simec Digital background. It requires that the sleeves produced by Simec Group respect specific production cycles, established according to the printing machines for which they are intended, then coded.

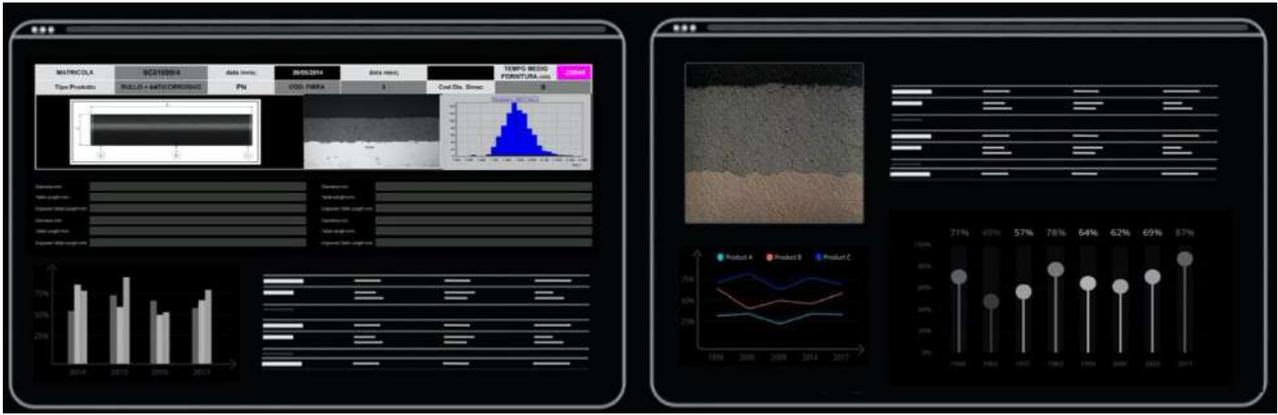
It allows to combine the cost advantages of standardization with those typical of a tailor-made approach, that's to say a product designed and built to respond to specific needs.

The production cycle of all the sleeves manufactured by Simec Group includes **18 phases**, each of them is fundamental for achieving the quality excellence recognized by the primary OEMs.

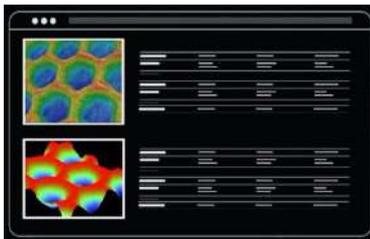
Since the raw materials as well vary according to the sleeve's final market, the **components outsourcing** is also codified, thus allowing the system to manage it automatically.

In order to customized, it is essential that the entire construction chain is in-house developed: the tube is **trimmed** and **bored** before undergoing a specific **thermal treatment** which increases its hardness and its life span, it is **assembled** with the fibre and with the rings built internally, **turned** and **blasted** to maximize the adhesion of the coatings.



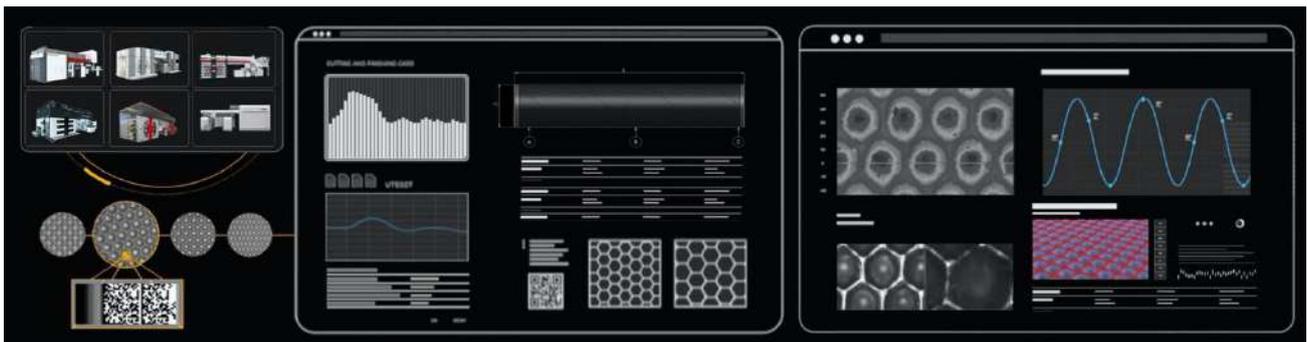


The **anti-corrosive and ceramic coatings** are made in the Top Coat Unit developed with Flame Spray, an international reference for applications in the markets of energy, iron and steel, transport, paper and other highly specialized industries; the results of this synergistic relationship is the merging of Simec Group's know-how with its partner state-of-the-art technology: the most proper machinery is used for every application, powders are carefully selected for an excellent quality level and coatings applied are constantly monitored – **procedures so specific that a common anilox producer cannot normally manage.**



The sleeve's surface is then **prepared** for engraving, **engraved** and **super finished**. The **final inspection** through interferometry allows to check that the product specs perfectly meet the identified needs and to fill the Digital Card that every Simec Group product has.

It is useful to remember that the Simec Group **engravings are also part of the SDB project**: in fact, the relative specs are **pre-settled, tested and coded** according to the printing machine model involved and in relation to the needs of the end-user and the work to be printed.



This is why the Italian company proudly wears the **"100% Made In Simec Group"** label on its sleeves.

Contact Marketing & Communication at marketing@simecgroup.com
www.simecgroup.com – [Youtube Channel](#)



COATERS & LAMINATORS: UTECO HI-TECH SOLUTIONS

The flexible packaging market is one of packaging segment that shows rapid growth, overtaking other types of rigid packaging.

Laminated films are increasingly being used by Converters and Brand Owner looking for new ways of packaging, preserving and presenting their products. The strength and flexibility as well as the resistance to punctures, the barrier capacity make them perfect for powdered foods above all frozen foods, pouches for liquid food, snacks and single portion products, bakery and microwaves products.

Besides delaying the deterioration of the product, thanks to a high resistance to the moisture and the barrier to oxygen, the laminated films maintain the beneficial effects of processing, extending the shelf life of the products full of their nutritional properties until consumption.

Packaging technology must be able to balance food protection with other issues such as energy and material costs, increased social and environmental awareness, and strict rules about pollutants and urban waste.

The laminates combined with printing, have the task of enhancing the aesthetics and ennobling the packaging, creating added value to the product as a distinctive or innovative packaging can really increase sales in such a very competitive market.

This continuous research in quality has also led to a reduction of long runs with shorter productions. Converters are looking for the cutting-edge machine that can reduce production costs, with quick job changes for a profitability increase.

This objective can be achieved by using multi-technology and Uteco compact machines, specifically designed for the flexible packaging.

The strength of the laminated films, combined with their ability to visualize printing, means that they are one of the best-selling packaging films produced by our latest generation machines.

In fact, thanks to very long experience and innovative technological, Uteco Group has further strengthened its knowledge in the coating and laminating market by implementing its range consists of: the new solventless Rainbow 4.0, Rainbow Evo, Mistral, Mistral MV and Horizon 4.0.



At K Show 2019 - Duesseldorf 16-26 October - Uteco Group presented demo of the new, compact and high-performance **Rainbow 4.0** laminating machine as well as the state of the art of solventless lamination.

To meet the widespread need for a machine capable of handling most flexible films, with particular attention to different tensions, after 8 months of prototyping and testing, in 2016 the Rainbow 4.0 machine was created.

It has been designed with **Industry 4.0 criteria** and a particular attention to reduction in energy consumption.

This machine presents some unique technological solutions that are leading edge compared to those offered by other market leaders. The production speed is one of its main features: it reaches 500 m/ min, placing itself among the highest in the entry level category. The sleeve factor Rainbow 4.0 is equipped with an automatic sleeve removal system which allows for quick job changes and optimal cleaning of the same. The machine adopts a type of elastomer sleeve ideal for coating with solvent-free, bi-component glues.

The basic polymer, with the anti-adhesive components added, prevents the external surface cells from clogging during operations and maintains ideal surface tension values; this facilitates the coating, while also reducing glue consumption compared to traditional coatings.

This sleeve, which was used for demos throughout the entire period of the fair, has a surface hardness of 80 Shore A, a pressure resistance of 25 Kg/cm and works at a maximum temperature of 140°C.

Hi-tech application and washing Rainbow 4.0 is equipped with a new infrared technology developed by Synaptik, for the uniform application of minimum quantities of adhesive over the entire surface of the material.

The system continuously monitors the transfer of the adhesive onto the coated material, alerts the operator if the reading results are incorrect and records the grams per square meter of adhesive poured, allowing the entire lamination process to be controlled.

Another feather in Uteco's cap provided in the basic configuration of the Rainbow 4.0 is the automatic washing system for cleaning all rollers. Through special spray nozzles integrated in the machine, the detergent (solvent free and there- for non-toxic and non-flammable) eliminates all traces of adhesive at the end of the lamination process

Another important machine of coating and laminating range on which drawing the attention is **Mistral MV**: the new compact environment friendly lacquering, coating and laminating machine suitable for working with all kind of materials : PE, PP, OPP, BOPP/MET, PET, AL-FOIL, PAPER, PVC, PA.



Mistral MV uses solvent-free adhesives ono/bicomponent with high performance and adhesives solvent and water base.

The solventless coating unit is 5 rollers with the transfer rubber roller sleeve type on board for easy and fast job change. New technology has been developed for the homogeneous application of minimal quantities of adhesive over the whole material surface.

The main features of the Mistral MV are two dedicated coating stations, one for solventless and one for gravure/flexo type applications. Mistral has been specifically designed for a quick change over from solvent less to gravure/flexo coating.

Packaging has become the basic key for marketing. The purchasing choices of the consumers are less rational and this is the reason why the brands are increasingly focusing on the emotional and sensory involvement of the Customer.

Customers look at the quality of the packaging, which doesn't have only the function to "protect" the product, but to be attractive.

A nice packaging needs to draw the attention of consumers, stimulating the sensorial approach for example by bright colors or original shapes, inviting them to touch the packs, to feel the surfaces, the weight and the texture.

The Mistral MV is a perfect compact solution integrated two processes: the in-register matt varnish and the solventless lamination in one step. Using a flexo or rotogravure varnish, it is possible to obtain: high gloss, satin effect, opaque effect on different substrates and thicknesses.

The varnish gives to the product a particular gloss and opacity, pearlescent effect, touch sensitive. The coating can also be partially applied to the printed product, where the visual impact needs a particular effect or has to be more pronounced.

The final printing treatment represents an additional value for any kind of commercial product where Mistral MV is the additional value.

Company Names	Details of Machineries	Companies logo
BLM SPA	Tube processing machines (CNC tube bending, end forming, sawing, laser cutting, tube and bar end machines)	 BLM GROUP
BUFFOLI TRANSFER SPA	Multi Spindle Mill- turn machines, Precision transfer machines, Flexible machining systems.	
FIMAT SRL	WM-TWIN CVJ Cage Milling Machine, ST-2 Tripod Grinding Machine and the RM Series of Spline Rolling Machines.	
LOSMA SPA	Air filtration systems and coolant filtration systems for machine tool	 WORKING CLEAN, BREATHING HEALTHY
MILLUTENSIL SRL	Die & Mould spotting presses, dies splitters for splitting, equipment for presses, coil lines, cut to length line, strip cutting line for sheet metal	
OMERA SRL	Hydraulic and Mechanical presses, Trimming and Beading machines, Semi-automatic and automatic production lines	 Since 1951
SIMEC GROUP	Rollers and sleeve mechanically engraved through a tool; rollers and sleeves laser engraved on ceramic; rollers for embossing in all its different applications; In-Line, Off-Line, In-Hole and Vertical Cleaning Machines/Systems for rollers and sleeves.	 MORE THAN ENGRAVINGS
UTEKO CONVERTING SPA	Flexographic and rotogravure printing machines, coating and laminating machines, Inkjet-hybrid and digital production and high-tech tailored machines for flexible packaging	