Newsletter – Issue LXVI March 2024

NEWSLETTER

Italian Technology Center India

AMAPLAST
ITALIAN PLASTICS AND RUBBER PROCESSING MACHINERY AND MOULDS MANUFACTURERS' ASSOCIATION

ACIMGA

UCIMU
UCIMU-SISTEMI PER PRODURRE

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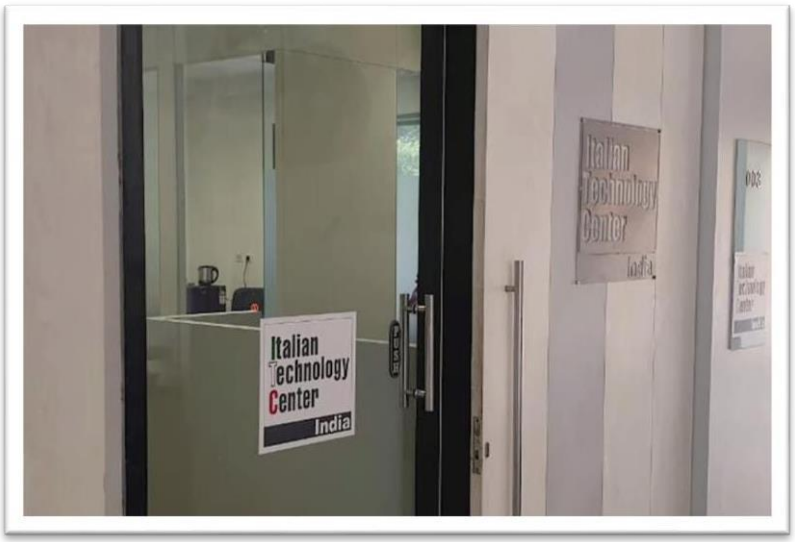

To watch the video Please **Click here**

ABOUT

ITALIAN TECHNOLOGY CENTER (ITC) is a network of a group of 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 collaborationamong leading Italian machinery manufacturers in order to share resources and knowledge with the commonaim of strengthening their presence in the Indian market.

Indian companies consider ITC as their first point of reference in India and get 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 is presided by Mrs Barbara Colombo (Managing Director - FICEP) through its India SPV(Rare Tech LLP) - Mr. Sandeep Chadha (Director); www.raretech.org.

INNOVA 2023 – BLM GROUP's OPEN HOUSE

From Sept. 20 to Oct. 4, BLM GROUP opened the doors to its facilities located in Levico Terme (Trento, Italy) to offer its customers a unique experience of getting up close with the technology and hospitality that distinguish its operations. The new name of the Open House, INNOVA, selected emphasizes a strong focus on the company's unwavering devotion to technological innovation. The event occupied a total exhibition area of more than 10,000 square meters divided into 4 main Tech Hubs, where attendees will have the opportunity to get hands-on with the latest innovations on the group's various technologies (Lasertube, sheet laser, 3D laser cutting cells, tube benders, wire benders, sawing machines and tube shapers) and all the software solutions of the BLMelements suite. At INNOVA, attendees also found specific areas dedicated to research and development and the wide range of services offered by the group: maintenance, technical assistance, and training and BLM portal.

This year, the new Lasertube LT12: a fiber laser cutting system for metallic tubes and profiles capable of cutting tubes from 25 to 305 mm in diameter was presented.

LT12 can be equipped with different laser powers and is capable of processing tubes up to 62 kg/m in weight. The main chuck and the front chuck are designed to minimize the end-scrap.

Among the many products on display, some of the latest innovations stood out:

Here are other interesting products / solutions that were presented:

ELECT63-E
A modern all-electric tube bender, ELECT63-E was born from the vision of filling the void of providing a cost effective, quality system for all manufacturers producing simple tubular components.

Working cell with LT7, E-TURN and AGV
This application is one of many examples of integration that the BLM Group can offer. This cell produced three different bent parts. The tubes were cut on the LT7 and a Data Matrix code was marked on the tube by LT7. The parts were unloaded by the unloader on a conveyor, and then a robot picked them up and placed them on an AGV. The AGV took the parts to an automatic loader connected to the E-TURN tube bending machine. The Data Matrix code was read on the loader and communicated to E-TURN, which in turn loaded the correct bending program to bend the part.

LT8.20 with automated warehouse

The coupling of a Lasertube system with an automatic warehouse stems from the vision of a solution to effectively reduce the shop floor space occupied by material and make the entire laser tube cutting process more efficient.

LS7

From the vision of a sheet metal laser cutting system with all the functionality of a high-end machine and features that allow it to stand out in this market, BLM GROUP condensed its more than 35 years of specific technology experience into an easy-to-use machine with excellent performance, full of value-added solutions including: innovative pallet changer to reduces the change-over times, gantry structure which allows accelerations of up to 2g, and extraordinary versatility.

Apart from these, the following systems were also present:

- BLM Group's unique All-In-One technology that connects the tube bending machine to the laser tube cutting machine,
- ELECT150 bending a 110 mm diameter Stainless Steel tube with a very tight, 90 mm CLR,
- LT-FREE and LT360, the two systems for 3D laser cutting,
- A manufacturing cell producing end-formed and bent parts from a bobbin of tube
- A double-head wire bending machine,
- Various models of automatic sawing machines cutting tubes and solid bars,

The complete software suites used on all the BLM Group's products and the new developments therein were also presented. This included the Customer portal thru' which the Customer can directly by consumables and some spare parts using the E-Shop facility.

During INNOVA, guests had the opportunity to interact with industry experts, who guided them through the exhibition spaces and assisted them with the "leitmotif" of this Open House: from the vision of new goals, through the knowledge of new technological tools, to identifying the most suitable solution for their needs.

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WORLD LEADER IN CNC MACHINE TOOL MANUFACTURING

MADE IN ITALY

As Italian-based firm we become **the largest producer in the world** today of automated systems for the fabrication of

STRUCTURAL STEEL

- Industrial and commercial buildings
- Transmission towers
- Bridges
- Agricultural and earth moving equipments
- Offshore
- Wind industry
- Steel service centers

L ANGLES & FLATS processing

Our angles and flats solutions include CNC lines able to perform punching, drilling, shearing, sawing, notching and marking operations. Our RAPID high-speed angle drilling line guarantees exceptional productivity thanks to the spindle sub-axis positioning, that is capable of processing offset holes in both legs simultaneously. This unique design makes the RAPID an economical and productive solution even on the largest of angles.

FICEP
STEEL THINKING

For further information

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MADE IN ITALY

As Italian-based firm we become an **outstanding producer** of equipment for the

FORGING INDUSTRY

- Automotive and Aerospace
- Trains and railways
- Energy
- Motorcycling
- Medical
- Petrolchemical
- Houseware and kitchen cutlery

L SHEARING

Cutting the bars into pieces is the first operation that is done in the forging industry. Our wide production of shearing machines has models actuated with mechanical, hydraulic and electrical power devices. CODEBRASS bar shears, specially dedicated for the processing of brass, are the most advanced machines to cut high quality slugs for the cold, warm and hot forging operations. These machines offer a high productivity for the realization of economical quality cuts.

FICEP
STEEL THINKING

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LORENZON
1933

LINERS
FOR ROLLING MILLS

Lorenzon's product is the synthesis of the requirements of those who use it and the professionalism of those who create it

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LINERS AND WEAR PLATES

We work with the world's leading steel mills and steel plant manufacturers, constantly supporting them in the development of new projects as well as in the regeneration and modernization of existing rolling systems. Our liners are designed to ensure the highest performance of rolling mill rolls. We thoroughly guide the customer in the design of the plates, the associated construction drawings, the selection of the most suitable material, and the implementation of heat treatment to ensure maximum durability.
At Lorenzon we design and manufacture all types of plates for rolling mills. Each plate has a different use and is therefore mounted in a different part of the plant:

- On the lower part of the rolling cage (**rocker plates**)
- On the **work roll chock liners** and **back up chock liners**
- On the cage (**housing liners**)

Each type of wear plate is manufactured by us to optimize the performance of the part of the plant on which it is installed.

To address these critical aspects and ensure the plant's peak performance, at Lorenzon we have developed the concept of **wear plate with induction hardening**, which allows us to obtain a product with a dual hardness. In particular, we use induction hardening, with variable hardening depths of up to 5mm, to create a dual-layer product:

- The **upper layer**, which is hardened, ensures excellent wear resistance, extending the plate's lifespan and minimizing potential dimensional variations.
- The **lower layer**, which is not hardened, is soft enough to absorb impacts, slips, and vibrations generated during operation.

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WORKING CLEAN, BREATHING HEALTHY

Liquid coolant purifiers: here is Losma's solutions

Demag – Magnetic rotating disc purifier
Demag is a magnetic rotating disc purifier for the separation of magnetic pollutant particles from lubricating liquids used in machining. The Demag series is available in 7 standard models capable of purifying 50 to 400 l/min of emulsified oil and 25 to 200 l/min of neat oil.

Demag Pesante (heavy-duty)
Demag Pesante was instead designed for heavy-duty flow rates, available in 5 models, capable of purifying 600 to 1800 l/min of emulsion and 300 to 900 l/min of neat oil. The especially robust construction of the Demag Pesante is suitable for large machine tools, centralised systems, machining centres, deep grinding and deep hole drilling or other heavy-duty machining.

Detex - Flatbed purifier
Detex is a coolant purifier that uses filter fabric to remove magnetic and non-magnetic particles from whole and emulsified oils. The degree of filtration is determined by the choice of fabric and varies from 10 to 50 micrometres, ensuring a very high degree of purification. Detex is available in 12 sizes with a purification capacity of 50 to 400 l/min of emulsified oil and 25 to 200 l/min of whole oil.
Optional

- SKIM - Eliminator of superficial oils which allows the quality of coolants to be maintained for a long time and eliminates odours generated in the presence of anaerobic bacterial flora.
- DEMAG - Purifier for magnetic material filtration; uses a series of discs to retain the solid pollutant suspended in the coolant.
- BOOSTER TANK - To collect dirty liquid for filter supply.

- CONTAINMENT TANK - To collect the clean liquid to be returned to the machine tool.
- ELECTRICAL CABINET - For supplying all utilities, controlling and managing all signals.
- PUMPS - For clean liquid delivery from 0.1 bar to 100 bar.

Decom - Combined purifier for liquid coolants
Decom is a combined purifier for liquid coolants that uses filter fabric and a rotating disc magnetic purifier to separate and remove magnetic and non-magnetic polluting particles from neat and emulsified oils. The degree of filtration is determined by the choice of fabric and varies from 10 to 50 micrometres, ensuring a very high degree of purification. Decom is capable of purifying 50 to 400 l/min of emulsified oil and 25 to 200 l/min of neat oil.

Losma guarantees that each purifier is individually tested through rigorous control procedures. A quality and functional test certificate is issued for each unit.

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Mold Maintenance
The Hidden Value of a Spotting Press

As mold complexity increases, so too does the complexity of maintenance, which advances the role of spotting in mold validation.

In the highly competitive plastics industry great emphasis is placed on precision, efficiency and productivity, but people often forget about the importance of completing the mold process. If a mold builder invests resources into high-precision machining, yet tests its molds using an overhead crane, how can he assure his customers that the molds are properly validated? With a high-precision spotting press, a mold builder can say, “This is how we know the mold is accurate.” This validation not only completes the mold process, it also provides the quality assurance of a premiere mold manufacturer.

As molds become more and more complicated, so does the checking and maintenance process. In turn, technology advances and so does the role of a spotting press to validate a mold. Having a high-precision spotting press provides a shop owner several advantages.

Safety. The first criteria in the design and manufacture of a spotting press should be safety. A high-precision spotting press minimizes dangerous mold handling associated with cranes, forklift trucks and other lifting equipment. Different from the mechanical multi-hole or toothed bar system, a high-precision spotting press has a safety device that prevents the press ram from falling, in case the hydraulic system fails. Safety devices are externally connected and always locked, which adds an extra safety measure.

Ergonomics. A high-precision spotting press is designed intrinsically with the maintenance crew in mind. Both platens should have the ability to tilt at varying angles, which helps avoid stressful maneuvers when performing mold maintenance, by making the molds easily accessible. Some presses have a compact design that allows the mold maintenance technician to approach the mold from a variety of angles with a simple tap of a control touch panel. For example, a press with the upper platen rotating 360 degrees and the lower platen rolling out and then tilting 75 degrees. This same approach can be applied to medium and large molds where the upper platen withholds the capability of flipping 180 degrees and the lower platen rolls out, then tilts 70 degrees to either the left or right. This allows workers to ergonomically adjust both platens with the benefit of working on the same side.

Productivity. Some shops use production molding presses to adjust a mold.
This method is dangerous.
It is difficult for technician to work on it.
Molding machines need to be in production continuously utilizing molding machine for spotting or maintenance of Mold is net loss of Production Time.
The features available on Spotting press helps operator to finish the work faster with better quality which is impossible when you use Molding Machine for spotting.

Considering increased complexity of molds (for example, multi-shot molds),a built-in rotational table on a high-precision spotting press allows shops to simulate mold production instead of taking up precious molding machine time. All in one setup, two-shot molds can be tested, adjusted and checked in a safe and simple manner, saving time and money.

Accuracy. High-precision spotting presses have high repeatability and accuracy. Trials can be further improved by testing hydraulic slides, auxiliary cylinders and ejectors. Thanks to a parallelism control system which can gauge the upper plate's position to ensure an even stroke. Today there is a lot of focus on mold accuracy, as many companies cut to net shape and negative stock on their cores and cavities. This parallelism control unit accurately brings the two halves together with precision. This technology features four electronic measurement devices, which continuously check the press' upper plate position and parallelism while comparing it with the lower plate. Encoders are located diagonally in the four external corners of the upper plate with the columns. The measurements are displayed on a touch panel for the entire stroke. If the preset limit parameters are exceeded, the stroke's movement is immediately disabled and the error is displayed. Parameters can be exceeded when hydraulic cylinders not being retracted or tools are being left in the mold (for example, scrapers, grinders, slip gauges and hammers). Some presses use optic scales to ensure the upper plate's movement is even, while the lower platen is locked into position.

User friendly Control Spotting operations of a high-precision press are intuitively controlled through a control touch panel that makes press functions clear, straightforward and simple. Additionally, the diagnostic program immediately reports on the display any anomalies that occur during operation. Each movement of the press is represented by a specific pictogram. In case of a malfunction, the relevant point is shown on the specific page for a quick solution. This helps minimize downtime, quickens troubleshooting and reduces service costs, especially after the warranty period.

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INDIA: A STRATEGIC MARKET FOR ITALIAN MACHINERY MANUFACTURERS

Historically India is an important destination market for Italian manufacturers of plastics and rubber processing machinery.

According to the data released by Istat (Italian Statistics Institute), in 2022 Italian exports to India touched the value of 110 million euros. Thus, India ranked eighth among the destination markets, with a 3,33% share out of the total.
In the first nine months of 2023 Italian sales to Indian plastics and rubber processors reached 60 million euros (-6% compared to the same period in 2022), including considerable quotas for extruders, flexographic machines, machines for reactive resins, thus high added-value and hi-tech equipment.

On the basis of the data released by the Indian statistics institute - referred to the foreign trade in January-September 2023 compared to the same period in 2022 - the Indian demand of plastics and rubber machines, equipment and moulds recorded a 2% increase as a whole, topping a value of 1,5 billion euros.
Among the different machinery categories, the greatest gains were recorded for imports of:

- injection moulding machines, which purchases have increased from 128 to 207 million euros. Supplies from China, Japan - in that order - reached a value of 65, 46 million euros, respectively. The demand is very high for machines capable of using 100% recycled materials. Relevant moulds posted a +14% increase, up to 437 million euros
- blow moulding machines, which recorded a +18% up to 34 million euros, with considerable shares from China, followed by Germany
- flexographic printing machines, that posted a +62% exceeding 25 million euros, with growing orders (around 10 millions) to Italian manufacturers, very first providers for this kind of equipment.

Overall, the top-three origin countries of the Indian imports of plastics and rubber machines were China, Germany, South Korea, reaching 654, 163, 143 million euros of share, respectively. Italy ranks fourth, with 104 millions.

As per the vision document that PMMAI-Plastics Machinery Manufacturers Association of India recently submitted to Government, India has the potential to emerge as a global plastic supplier and the domestic plastic market is expected to more than triple to reach Rs 10 lakh crore (117 billion euros) by 2027-28 from present Rs 3.5 lakh crore (41 billion euros).

www.amaplast.org

ASSOCIAZIONE NAZIONALE COSTRUTTORI DI MACCHINE
E STAMPI PER MATERIE PLASTICHE E GOMMA

ITALIAN PLASTICS AND RUBBER PROCESSING MACHINERY AND MOULDS MANUFACTURERS' ASSOCIATION

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comunicato stampa / press release

34.BI-MU FROM 9 TO 12 OCTOBER 2024, FIERAMILANO RHO
INCOMING MISSION OF INDIAN END-USERS

From **9th to 12th October 2024**, **fieramilano Rho** will be the stage for the **34th edition of BI-MU,** the most important Italian exhibition dedicated to the manufacturing industry of metal cutting and metal forming machine tools, robots, automation systems, digital and additive manufacturing, auxiliary and enabling technologies.

The only trade fair for the sector in Italy with a truly international scope, the first one to open up to the world of connectivity for industry, BI-MU will present its proposal, by highlighting **All faces of innovation**.

Download the brochure of 34.BI-MU

Besides machine tools and production systems, there will be **8 exhibition themes**: Robots, Additive, Digital, Metrology, Power Transmission Systems, Heat and Surface Treatments, Composites and Consulting.

The exhibition offer will be complemented by a cultural thematic in-depth analysis and discussion, as usual developed through a rich programme of meetings, arranged by organisers and exhibitors and hosted in the **BI-MUpiù arena**.

In addition, a special project will be dedicated to **education,** with the aim of bringing, even during the event, the world of education closer to enterprises, which strongly need to rely on skilled, motivated young people trained to operate in the factories of the future.

Promoted by **UCIMU-SISTEMI PER PRODURRE, the Italian machine tools, robots and automation systems manufacturers' association (www.ucimu.it)**, and organised by EFIM-ENTE FIERE ITALIANE MACCHINE, 34.BI-MU is a **sustainable event**, managed and organised according to the principles of environmental, economic and social sustainability, with ICIM ISO 20121 certification.

An important **delegation of Indian machine tools buyers will be invited** by the Italian Ministery of Foreign Affairs, ITA-Agency and UCIMU-SISTEMI PER PRODURRE in the frame of the initiative of incoming foreign delegations to 34.BI-MU.

In fact, India is one of the most important markets for Italian machine tools manufacturers: **Italian machine tools exports have reached 78,5 millions Euros in the first nine months of 2023**, registering an **increase of 63.7%** compared to the same period of the previous year.

Company Names	Details of Machineries	Companies logo
BLM S.p.A	Tube processing machines, Laser Tube cutting, CNC Tube bending, end- forming, automatic sawing, Wire bending machines, Five Axis Laser cutting machines, Laser sheet cutting machines.	BLM GROUP
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.	BUFFOLI INDUSTRIES
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 andscrew presses, shears, saws and automation for the forging industry	FICEP
LORENZON S.r.l.	Knives and jaws for tube industry, guideway and sideways for machines and hydraulic presses, knives and blades with all the shapes for metal industry, precision plates and liners for rolling mills, machining up to 10 meters.	LORENZON 1933
LOSMA S.p.A	Air filtration systems and coolantfiltration systems for machine tools	LOSMA® WORKING CLEAN, BREATHING HEALTHY
MILLUTENSIL S.r.l	Die & Mould spotting presses, dies splitters for splitting, equipment for presses, coil lines,cut to length line (CTL)	MILLUTENSIL®