

# NEWSLETTER

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## 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 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 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](http://www.raretech.org)).



# ACiMGA

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**PRESS RELEASE**

## **Roto4All 2021, the rotogravure community meets live**

*The second edition of the supply chain event organised by the Italian Rotogravure Group brings together over 100 people in Florence to talk about sustainability and ecological transition*

Milan, October 26th, 2021 – An entire day dedicated to rotogravure: **Roto4All went live on Friday 22nd October, with a first edition that brought together over 100 people in Florence.** After the 2020 streaming edition, which reached 500 people, a quarter of which international, Roto4All 2021 was a precious opportunity **to put in connection the entire gravure community**, conveying the experiences and projects of different industry players.

Moderated by **Andrea Briganti, Director of Acimga**, Roto4All saw the stage of the Odeon Cinema become the centre of rotogravure technology: to **Daniele Barbui, President of Acimga**, the honour of an institutional opening, while **Gianmatteo Maggioni, Head of the Rotogravure Group by Acimga**, provided an overview of the Group's future activities, presenting the next training course dedicated to Sustainability.

During the course of the day there were contributions from technology manufacturers, printers, brand owners, representatives of Italian and international associations, marketing experts, and representatives from consortia, to create a moment of continuous constructive dialogue within a printing technology that still proves to be extremely lively and with a strong innovative drive.

This is demonstrated by the case histories presented, virtuous examples of innovation in the rotogravure field and collaboration between different interlocutors: **Sacchital Group and Terre Ducali** presented a take away tray in recyclable paper designed according to the principles of ecodesign; **BOBST, Ticinoplast and Sunchemical** talked about the ambitious R&D work, underlining the value of partnership, for the creation of a BOPE monomaterial packaging; **Kaspar Walter and Rossini** brought onstage innovative alternative solutions to the use of hexavalent chromium, further testifying to the vitality of the gravure world, which looks to the future in the development of new possible directions. There was an abundance of direct testimonies from the supply chain industries towards specific approaches to sustainability: **Gualapack, Di Mauro Group, SIT Group**, but also **UTECO Group, BOBST, ICR and Inci-flex**, which together with **Italo Vailati, Director of Giflex**, and

**Anna Paola Cavanna, President of Fondazione Carta Etica del Packaging** illustrated a vast and interesting panorama in continuous development. **Giulia Picerno, from the Study Center for Circular Economy of CONAI** showed how packaging adapts to the needs of the evolving society, enriching its functions and must consequently be rethought in a circular perspective, while **Giuseppe Stigliano, Global CEO of Spring Studios, Professor of Retail Marketing and co-author of "Retail 4.0: 10 Guiding Principles for the Digital Age"** with the guru Philip Kotler, gave new inputs on digitalization, according to the principles of invisibility, utility and sustainability. **GAA, Gravure AIMCAL Alliance**, closed the day by illustrating trends and evolutions in the gravure sector directly from the US market.

The Italian rotogravure sector remains an international benchmark for excellence and technological know-how, a model for printing quality, for the characteristics of the offered product and for the performance of the machinery itself, and these qualities are recognized by the market, where for twenty years Italian machines have been positioned in a medium to high price range. The return to pre-Covid export levels, however, unfortunately remains distant – explains **Andrea Briganti, Director of Acimga**. – The world market for rotogravure technology is worth 189 million euros: without a doubt, 2020 has been seriously affected by the pandemic, so much so that global trade went down by almost 20%. Despite this, **the global forecasts for the next three years give positive signals that give us hope**».

After Roto4All, the activities of the Italian Rotogravure Group by Acimga will not stop and the aggregative approach continues along the entire industrial community, also in the training field. A course dedicated to **Sustainability in Rotogravure** will be launched shortly, with a vision aimed at continuing to oversee the peculiar production, cultural, organizational, and technical characteristics that Italy has in the rotogravure world for packaging production.

For further information

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## **Plastics and rubber processing machines: sector in recovery**

The full-year forecast developed by MECS-Amaplast statistical studies centre shows double-digit growth in 2021 for the Italian plastics and rubber processing machinery, equipment, and moulds industry.

“According to our estimates,” states Amaplast president Dario Previero, “at the close of 2021 production should be a hair’s breadth from pre-pandemic levels, reaching 4.35 billion euros and an impressive +11.5% with respect to 2020.”

The primary driver of recovery in the sector in Italy is the domestic market, which is forecast to close the year with growth of nearly fifteen points and a value of 1.35 billion euros. On the basis of the most recent economic survey of the first nine months of the current year, the surge in orders from Italian customers mainly regards machinery and complete processing lines.

Exports are also playing a decisive role and are expected to return to a value on the order of 3 billion euros, giving a boost to the balance of trade. Indeed, 8 of the top 10 Italian export destination countries, collectively absorbing nearly 60% of the total, show strong growth in demand, with +17% from Poland and +83% from China. For what concerns sales to India, in January-September 2021 a +12% over the same period in 2020 was recorded, exceeding 54 million euros value, almost reaching the 2019 level.

Orders received in the first three quarters of the year, both from Italian and foreign customers, cover production for the next six months and mainly regard machinery. The replacement parts segment, while in the positive range, appears somewhat less dynamic.

As regards applications, it is not surprising to see the highest and most sustained demand for technology from the packaging and medical sectors, while construction and automotive travel at more moderate speeds.

“Naturally,” adds Previero, “various factors of instability that arose and worsened over the past year - from raw materials costs to difficulty in procuring components, from an increase in energy and transport costs to restrictions on personal mobility - are still unresolved and continue to be sources of concern for companies.”

However, the clear recovery recorded in 2021 - with the first signs of an upswing already observed in the last months of 2020 - gives us good reason to expect performance beyond pre-crisis levels already next year.



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ITALIAN PLASTICS AND RUBBER PROCESSING MACHINERY  
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“This”, emphasizes Previero, “confirms the robust response capacity of companies in the industry, deriving typically from their flexibility. Faced with the challenges posed by the context and markets, the companies have again succeeded in developing tailor-made solutions in terms of technological content, sustainability, and efficiency.”

In this scenario, Amaplast (through its service company Promaplast srl) is proceeding with the organization of GREENPLAST, the new exhibition-convention dedicated to materials, technologies, and processes for plastics and rubber, taking place in Milan from the 3rd to the 6th of May 2022 with a special emphasis on environmental sustainability and energy efficiency.

With four months to go before the inauguration, over a hundred companies have registered. The leading companies in the plastics and rubber industry will present the most innovative circular-economy, Reduce-Reuse-Recycle, and Industry 4.0 solutions:

- machinery, auxiliaries, and moulds for energy-efficient production processes with technologies designed for recycled, innovative, and bio-based materials
- systems for the recovery and recycling of plastics and rubber
- low-impact, recyclable virgin materials
- articles produced with environmentally sustainable materials.

In addition to the technology showcase, GREENPLAST will also feature a new edition of Packaging Speaks Green, the international forum on sustainable packaging with globally renowned opinion leaders, companies, and policymakers who will offer a panorama of the industry and prospects for augmenting sustainability in the packaging industry and downstream markets. The event will be organized into three sessions: food & beverage, plastics and recycling, the pharmaceutical industry.



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**UCIMU: AN EXCELLENT 2021 FOR THE ITALIAN INDUSTRY OF MACHINE TOOLS, ROBOTICS AND AUTOMATION.  
A STRONG GROWTH ALSO IN 2022, WITH FULL RECOVERY OF THE GROUND LOST DURING THE PANDEMIC**

The year 2021 was extremely positive for the Italian industry of machine tools, robotics and automation, which reported double-digit increases for all key economic indicators. This trend should continue even in 2022, the year when all the ground lost in 2020 should be recovered.

This is in short what was illustrated by **Barbara Colombo**, president of UCIMU-SISTEMI PER PRODURRE, the Italian machine tools, robots and automation systems manufacturers' association, during the traditional end-of-year press conference.

As highlighted by the preliminary year's data processed by the Studies Dept. & Business Culture of UCIMU-SISTEMI PER PRODURRE, in 2021 production reached 6,325 million euro, marking a **22.1%** upturn compared with the previous year.

The outcome was due to the **excellent trend of Italian manufacturers' deliveries** in the domestic market, **increased by 27.8% to 2,965 million euro**, as well as to the **positive performance of exports**, achieving **3,360 million euro, i.e. 17.4% more than in the previous year**.

Based on the ISTAT data processing by UCIMU, in the period January-September 2021 (latest available data), Italian exports of machine tools only started to grow again in almost all countries of destination. Sales to Germany, which turned out to be the first country for the "Made in Italy" exports of the sector, went up to 256 million euro (+38.4%). The other major destination countries were the United States, 251 million euro (+9.7%), China, 154 million euro (-5.3%), Poland, 118 million euro (+29%) and France, 117 million euro (+1.2%).

**The domestic market was extremely lively**, as shown by the data of **consumption**, which increased **by 30.4% in 2021 compared with the previous year, attaining a value of 4,645 million euro**.

The export/production ratio went down by two percentage points, standing at 53.1%.

In line with the upswing reported by these indicators was also the growth of **turnover, exceeding the value of 9 billion euro in 2021**, after collapsing to 7.5 billion euro in 2020.

Despite the dynamic demand and the improvement in the context, in 2021 the Italian industry of the sector was not able to achieve a full recovery after the downturn experienced in 2020 because of the **difficulty in sourcing components and raw materials**. This phenomenon caused a **delay between the collection of orders and the actual delivery of machinery**.

In particular, **according to the survey conducted last October by the UCIMU Economic Studies Department & Business Culture on a representative sample of enterprises in the sector, 95% of the companies said that there are late supplies. The average delay is 3 months**, which, added to the usual one and a half months of normal waiting time, makes the delivery time of supplied components and materials increase to 4 and a half months. According to the interviewed enterprises, the impact of this delay on the delivery time of machinery is estimated at 4 months. As a result, the **average delivery time of machinery is currently 9 months** versus the 5 months, which manufacturers habitually used to guarantee their customers.

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**The positive trend reported in 2021 should continue even in 2022**, the year when there should be a full recovery from the collapse due to the outbreak of the pandemic.

In particular, according to the forecasts processed by the UCIMU Economic Studies Department & Business Culture, **in 2022 production should grow to 7,015 million euro** (+10.9% versus 2021), **driven by the upswing of exports**, which should attain **3,620 million euro (+7.7%)** and **by the upturn of manufacturers' deliveries in the domestic market**, which should rise to **3,395 million euro (+14.5%)**.

**Consumption** should also keep growing, reaching **5,205 million euro**, corresponding to **12.1% more than in 2021**. Even if to a reduced extent compared with manufacturers' deliveries, imports should also benefit from the dynamism of domestic demand, marking a 7.7% rise (versus 2020), which should bring their value to 1,810 million euro. The export/production ratio should go down again, standing at 51.6%.

The growth experienced in 2021 should also continue in 2022, as highlighted by the forecasts. This is also confirmed by the analysis of the **Italian manufacturers' order portfolio concerning the third quarter 2021** (latest available data), which achieved 7.6 months of guaranteed production, the highest value ever recorded over the last 30 years. [In the third quarter 2020, the indicator stood at 5.1 months].

**Barbara Colombo**, president of UCIMU-SISTEMI PER PRODURRE, commented: "The year 2021 was extremely positive for the Italian manufacturers of machine tools, robots and automation systems. Only the lack of some electrical and electronic components and of raw materials hindered the full recovery of the loss registered at the end of 2020, in conjunction with the outbreak of the pandemic".

"On the other hand, we are still observing – continued Barbara Colombo – a wide discrepancy between the trend of the order collection and the turnover performance affected by the delayed delivery times of machinery due to the long waiting times for the supplies that we the manufacturers are facing. This said, in 2022, we will not only recover all the ground lost during the public health emergency, but we will be able to return to the record levels of 2018 for many indicators, because the market is really effervescent, especially the domestic one".

"In particular, while experiencing a slower recovery of business on foreign markets owing to the restrictions still concerning the mobility of people, we instead notice a great liveliness of Italian demand supported, at least partially by the Government incentives for new investments in production technology".

In this connection, we can affirm that the confirmation of the applicability of these measures at least until the whole year 2025 is surely good news, because the upgrading process and digital transformation of Italian factories is still in full progress and must be supported and incentivised. Considering the provisions currently included in the Budget Law 2022, under discussion over the last few weeks, we must point out several essential corrections that are necessary to ensure that the measures in the plan are really effective".

"With reference to the tax credit for the investments in new technology 4.0 and others and taking into account the problem of the delayed delivery times due to the lack of components and raw materials, we asked for the postponement until December 2022 of the deadline for the delivery of goods ordered in 2021, now set for June 2022. In addition, while understanding the need for a reduction of tax rates, we ask to adopt a softer passage in order to allow a gradual withdrawal of incentives, now established in 2025".

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“Moreover, added the president of UCIMU, **Barbara Colombo** – we ask to postpone the tax credit for training and education 4.0, which is presently not included in the Budget Law 2022. Now more than ever, those who operate in the world of enterprises can understand the importance of professional education and training of employees, who must operate on state-of-the-art machines and technologies and in more complex contexts than in the past”.

After all, **in our opinion, the incentive measures** for the replacement of obsolete machinery and for the digitalization of production plants **should become structural**, so that they can accompany Italian manufacturing enterprises – mainly family-run SMEs and thus with a limited willingness to invest – in a process of **continuous updating**”.

“The evidence of the benefit deriving from this operation is proven by the results of the survey on the Total Machine Tools installed in the Italian metal mechanical enterprises, carried out by UCIMU and presented last spring. The survey shows that not only has the number of acquired machines grown, but also the digitalisation rate in the factories has increased, as measured by the number of CNC machines in operation. In particular - concluded **Barbara Colombo** – in the period 2015-2019, in conjunction with the plans for transition 4.0, 60,000 new machines entered the Italian factories, i.e. 50% more than the machinery acquired in the previous five-year period, corresponding to less than 40,000 units. In addition, in the last survey, 60% of the new machines turned out to be CNC machinery, versus 37% of the previous survey (2014)”.

Cinisello Balsamo, 14 December 2021

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## **INDUSTRY 4.0 PLATFORM PROVIDES INTEGRATION FOR TUBULAR PRODUCTS**

Single platform and digital connectivity helps improve tube fabrication productivity and efficiency.

Many Tube fabricators use a different programming platform for each machine, which leads to some specific inefficiencies. Connecting two or more processes together using industry 4.0 technology platforms provides a seamless operation in programming, fabricating, and process validation.



Optimizing productivity and working efficiently can be at odds with each other, and as manufacturing processes become ever more complex, it can be increasingly difficult to work toward both of these goals. Dealing with several platforms—laser cutting, bending, and welding, for example—makes the many variables even more challenging to manage. Where possible, using a single software platform to program a variety

of machines can be a big boost to productivity and efficiency.

Bridging the gap between tube lasers and tube benders traditionally has been cumbersome. The crux of the matter was the lack of a viable technology platform linking the two processes, starting at the product design and programming phase. Managing these processes through the traditional method requires generating NC programs for the tube laser and tube bender on two separate platforms. Without any shared data, required part corrections and compensations are handled manually, using a trial-and-error approach. This can take several iterations, especially as the parts become more complex.

This approach sacrifices productivity and significantly increases manufacturing costs. Besides part complexity, increased part changeovers (as in a high-mix production environment) also make the fabrication process more challenging, as the measurement and manual correction steps must be repeated several times for each process and each material variation.

### **Break Out the Slide Rule**

Before the bending process begins, the programmers or machine operators have to calculate or estimate the initial straight length of the tube manually for the cutting process. The bending process can cause elongation, radial growth, and springback on the workpiece. These, in turn, affect the part's final dimensions and location features and pre-processed holes. As a tube or

pipe is bent, the exterior wall stretches and thins at the tangent point of the bend; simultaneously, the interior wall becomes thicker and more compressed.

Therefore, understanding and managing the degree of physical deformation is important in achieving the desired part quality. However, part complexity and material characteristics make it challenging to gauge the exact effect of bending on the workpiece using only manual calculations. With the traditional, manual method, the machine operator must measure the bent part and hole locations after bending and adjust the starting part length and hole locations. This process might have to be repeated several times before the desired results are achieved. Additionally, the process's lack of repeatability, depending on the bending operation, makes this task even more cumbersome.

In general, as the radius becomes tighter, the material stretches more. In some cases, material selection is dictated by the expected level of elongation. For example, stainless steel has a higher maximum elongation than other grades of steel. However, with traditional methods, the expected level of elongation is mostly calculated with rules of thumb and corrections performed by trial and error, especially when the part geometry is more complex. Thus, it might be necessary to repeat the calculation several times before achieving the desired result.

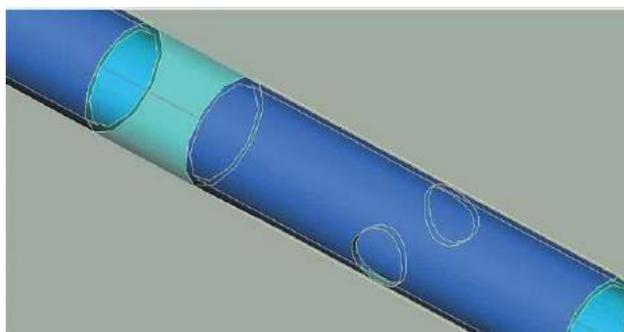
To minimize the degree of deviation, market demands have made it mandatory for manufacturers to find advanced methods for effective management of all the process variables between part design and manufactured parts or assemblies.

### **Break Out the Software**

Technological advancements in machine-to-machine communication, industrial internet of things (IIoT) systems, and machine learning have created a method for assemblies or single part models to be imported directly into the tube laser software and managed within the same environment across multiprocess platforms. This method removes the manual calculations, rules of thumb, and guesswork that often lead to trial-and-error corrections.

**OLP, CAD/CAM.** To start the process, a 3D model of a bent tube or frame assembly is imported directly into the tube laser software. The software's CAD module generates the tube's theoretical straight length.

The offline programming (OLP) software uses a dynamic feature-extraction algorithm to identify the size and position of bending segments and unfolds the bent model from a straight tube automatically, while maintaining part properties and features according to the theoretical design. Then software generates two NC programs: one for the laser and another one for the tube bender, which can be transferred over a local area network or a wide area network to both machines. This eliminates the need for the machine operator or programmer to calculate the bending coordinates manually and input them into the tube bender control or to import the 3D part model into the tube bender and determine the bending coordinates again.



Two opposing holes are incorporated into the drawing of this component. A typical laser can make these features with a dimensional



accuracy and tolerance that is hard to match.

Furthermore, advanced systems provide a powerful method to close the communication loop between the two processes by fetching bending compensation data from the bender and making the data available for the laser cutting process, either at the machine or at the OLP software level. The user can choose to access the information at the laser machine or at the OLP software, based on the production requirements.

### **Compensation**

The bending software dynamically calculates springback, radial growth, and elongation, based on a data table that is saved when setting up new tooling. Based on this data, the bending compensation module provides an accurate initial straight length of the tube and corrects the critical bend points, according to the theoretical part dimensions without the need to bend the part physically.

Integrated processes using Industry 4.0 platforms have a subtle but important advantage over traditional systems. Manual calculations can be eliminated through integrated systems. For instance, traditional springback compensation methods consider the bend angle only; they don't account for radial growth and elongation.

The compensation data is transferred back to the laser (online or offline) via the network, giving the operator the option to choose to implement it or not. Before the cutting process begins, the hole locations are offset by the amount of the calculated stretch in relation to the bend location, and the length of the part also is adjusted to match the dimensions specified by the tube bender. This allows the cutting machine to make the correct initial tube length and hole locations for bending and ensures that the first bent part is accurate. The compensation data also can be transferred to the tube laser OLP software. The programmer can apply the compensation information to edit the part features at the CAM level automatically, without affecting the theoretical part design, and transfer the new program to the machine for cutting.

### **Wrapping It Up**

Increase in manufacturing efficiency and significantly reducing labor and material costs, Industry 4.0 platforms and integrated systems can free up manufacturing personnel so that their efforts are better spent in improving other processes and creating efficient methods. This technology platform efficiently eliminates the repetitive, the iterative, and the mundane, leaving personnel to create, improve, and validate systems.

Leave it to software and related systems to deal with complex part geometries, stringent quality requirements, and demanding production schedules. Besides bridging the gap between the manufacturing processes, Industry 4.0 provides a versatile platform which could help fabricators integrate all of their production systems, material handling, and logistics.

Reference:

<https://www.thefabricator.com/tubepipejournal/article/tubepipeproduction/industry-40-platform-provides-integration-for-tubular-products>

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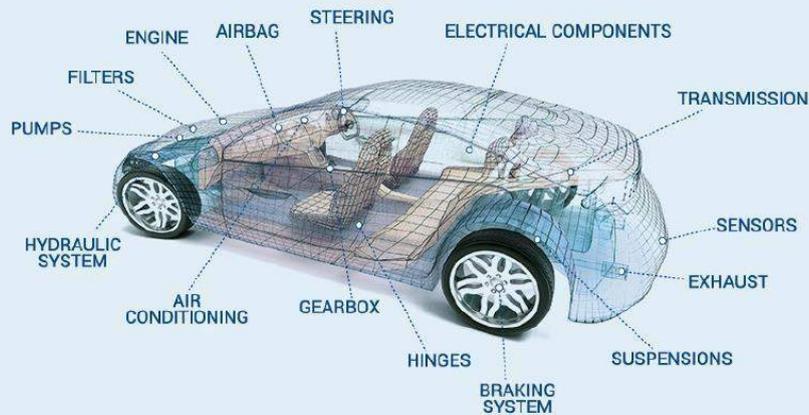
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### **Smoke free aluminium foundry: how to create a better working place for workers**

Pune, India - Losma India Pvt. Ltd., subsidiary of Losma S.p.A. Italy, in October 2021 completed the installation of a centralized fume extraction & filtration system at a leading Aluminum Foundry in the state of Maharashtra, India.

The fume extraction system has been designed to draw out fumes generated in 4 furnaces, and transport to a Wet Scrubber placed outdoors which filters the pollutants from the incoming air flow, and releases the clean air to the atmosphere.

Four large suction hoods have been placed over the furnaces to collect the fumes. The hoods are movable and are placed elsewhere when not required. The scrubber designed by Losma comes with very little maintenance and consumes very little electricity.





## 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.



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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.



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## 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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Company Names	Details of Machineries	Companies logo
<b>BLM S.p.A</b>	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.	 <b>BLM GROUP</b>
<b>BUFFOLI TRANSFER S.p.A</b>	CNC Rotary Transfer Machines (Bar or Blanks), complete with automation, robotic and gaging systems. IoT (I4.0) technology and software.	 <b>BUFFOLI INDUSTRIES</b>
<b>FICEP S.p.A.</b>	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	 <b>FICEP</b>
<b>LOSMA S.p.A</b>	Air filtration systems and coolant filtration systems for machine tools	 <b>LOSMA</b> <sup>®</sup> WORKING CLEAN, BREATHING HEALTHY
<b>MILLUTENSIL S.r.l</b>	Die & Mould spotting presses, dies splitters for splitting, equipment for presses, coil lines, cut to length line (CTL)	 <b>MILLUTENSIL</b> <sup>®</sup>