

ITALIAN MACHINE TOOLS, ROBOTICS & AUTOMATION INDUSTRY ~ NEWS

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PIATTAFORMA INDIA PROJECT

NEWSLETTER NO. 90



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SIEMENS



COMI AND SIEMENS FOR LARGE ADDITIVE MANUFACTURING

COMI Spa is an Italian company that has been dedicated to the production of thermoforming machines, presses, CNC milling machines, metal sheet machines and much more. **Comi Spa** was founded in 1973 by partners Enzo Ballabio and Remo Sertori, the first generation, it is currently managed by **Franco Ballabio**, who has brought the company to extremely high levels of world excellence. With about 200 employees, **COMI Spa** has installed over 3000 systems in more than 90 countries worldwide. The company has four offices – in **Zingonia, Levate, Teglio Veneto** and **Vigevano** – and a list of high-level references.



Comi Spa is a company with unparalleled know-how in the field of thermoforming. Today it does not limit itself to selling a simple machine, but offers a 360° plant with high production standards, aimed at improving the customers' cycle times more and more.

In other words, customers obtain the best performing solutions in all working conditions, with maximum production and optimal “**energy and material saving**”.

Comi Spa has become a multinational company over the years. The group of companies complementary to the holding offers customers a 360-degree service. There have been numerous corporate acquisitions over the years such as **Parco, TechMill, Amut Comi** and, last but not least, **Aeroseatek**. With the acquisition of **Techmill**, **Comi** has specialized in the sector of highly customized numerical control machines with a very high engineering standard; with the acquisition of **Parco** it became part of the world of presses, again with high engineering standards and building special presses in various sectors; while with **Amut Comi** it entered the packaging market, offering its specialization in the thermoforming sector; finally, with **Aeroseatek**, it entered the world of aviation.

Just a few weeks ago, **COMI**, through a press release, announced the birth of **Comi Aerospace Srl**. The first company, with public-private capital, in the sector of the production of aircraft seats. The project will include high-level profiles such as **Giuseppe Biamonte**, General Manager, and **Fredrik Meloni** who will lead the Sales Department.



In the world of manufacturing, precision and efficiency are key factors that can make or break a company's success. To meet the demands of the modern industry, **COMI SpA** has introduced a groundbreaking 5-axis machining center and large-scale additive manufacturing solution, named the **LaborMac**. These cutting-edge technologies have revolutionized the way molds and parts are machined, particularly in the realm of aluminum and composite materials.

The **LaborMac** 5-axis machining center stands out for its exceptional rigidity, which is achieved through a monolithic structure with a Gantry-type mobile portal on the Y axis. This design minimizes vibrations, enabling high-speed machining without compromising quality. The machine's capabilities extend beyond traditional machining processes, allowing for precise modeling and trimming of composite materials and resins. Additionally, the option to equip the machine with an Oil Mist and suction hood for dust extraction ensures a clean and safe working environment.

Additive manufacturing has revolutionized the manufacturing industry. It offers unprecedented freedom in design and the ability to produce complex geometries with remarkable precision. Our **LaborMac** machine takes this technology to the next level, enabling rapid and cost-effective production of components. By incorporating large-scale additive manufacturing capabilities, we empower manufacturers to optimize their production processes and achieve superior results.

But that's not all—the **LaborMac** machine goes beyond additive manufacturing. With its cutter functionality, it provides a comprehensive solution for a wide range of manufacturing needs. Whether you require precise trimming, shaping, or finishing, the **LaborMac** machine delivers outstanding performance.

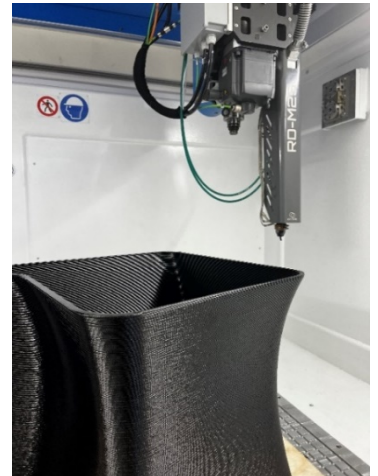
Large 3D printing

Thanks to the collaboration with the innovative tech startup REV3RD, a revolutionary extruder has been assembled. It's able to produce large-scale 3D objects in aeronautical, automotive and construction fields.

LaborMac's additive manufacturing solution presents notable cost benefits. By employing this technology, companies can significantly reduce touch labor and minimize material waste, leading to substantial savings.

Innovative & Recycled materials

By leveraging this technology, the company provides a comprehensive tool manufacturing solution. The **LaborMac** machine, paired exclusively with innovative and recycled materials, specialized in Large Scale Additive Manufacturing, offers to the client also a unique material developed specifically for advanced composite tooling applications.



Revolutionizing 3D Printing: Introducing the RD-M25 with Advanced Features

The world of 3D printing continues to evolve at a rapid pace, and REV3RD is at the forefront of this technological revolution. Their latest offering, the RD-M25, boasts an array of advanced features that redefine what is possible in the realm of pellet extruders. This next-generation machine is designed to deliver fast and cost-effective 3D printing, making it a game-changer in the industry. Last but not least, driving the RD-M25's exceptional performance is a powerful 4,5 Kw servo motor. This robust motor provides the necessary power and torque to handle demanding printing tasks with ease. Its reliability and efficiency enable the machine to operate at peak performance, delivering exceptional results consistently.

COMI SpA has always been able to count on the cooperation of one of the leading automation and CNC supplier in machine tool field, **SIEMENS**.

SIEMENS is a technological leader company with a portfolio designed to drive a digital and sustainable transformation of industry and infrastructures. Siemens develops and produces its own Software and Hardware technologies and then tests it in its own production sites. Sustainability is a fundamental component of Siemens strategy, permeating every aspect of the business activities.

Siemens is at the forefront of additive technology and robotics. Through the collaboration with **Siemens**, the new digital native **CNC Sinumerik ONE** has made it possible to give our customers a highly digitized service to increase the productivity of our machines. Through the **Siemens** network dedicated to Additive Manufacturing it is possible to reach organizations, suppliers and users, who through the **AMEC** (Additive Manufacturing Experience Center) in Erlangen (DE), find the center of excellence for Additive technology. The **AMEC** is available for interested users in a virtual or in person guided tour, where **Siemens** experts are available for details on the technologies available on the market. More and more machine tool manufacturers are integrating additive technology with subtractive technology, inserting a second additive head into machine tools with the possibility of performing machining operations that are difficult to achieve with removal technology alone. The so-called hybrid machines use Material Extrusion (ME) and Directed Energy Deposition (DED) technology controlled by the **Sinumerik ONE CNC**.



Robotics is managed by the **Sinumerik ONE CNC** through **Run MyRobot / Direct Control**, where it is possible to have a single CNC for the machine tool and for the robot itself. The operator does not have to know two different programming languages, but the robot is programmed with the same ISO language as the machine tool. Also as regards the drives and the periphery, they are the same inside the electrical cabinet of the machine tool. The robot is able to perform operations such as removal, drilling and deburring. For the integration of a robot managed independently, but always by the **Sinumerik ONE CNC**, **Run MyRobot/Handling** is available, which allows a robot to be integrated into existing systems with the use of loading and unloading.

In conclusion, **LaborMac** has brought about a revolution in machining and additive manufacturing. The 5-axis machining center, with its exceptional rigidity and versatility, ensures optimal results when working with aluminum and composite materials. Simultaneously, the large-scale additive manufacturing solution opens up new possibilities for tool manufacturing, offering rapid production, cost reduction, and scalability. With LaborMac's cutting-edge technologies, manufacturers can elevate their capabilities and stay ahead in a fiercely competitive industry.

For further information: <https://comispa.it/?lang=en> and <https://www.siemens.com/>

The project Piattaforma India has been promoted by UCIMU – Association of Italian Machine Tools Manufacturers and AMAPLAST – Italian Plastics and Rubber Processing Machinery and Moulds Manufacturers Association. The two associations agreed on the idea that promoting a network of associations and entrepreneurs who have developed knowledge and experience on the Indian market, can be useful in favoring of new paths of development for business. The Indian companies who are interested to form JV, cooperation, technical tie up, purchase machinery etc from/with Italian companies can contact below mentioned address for any assistance:

Contact information of Piattaforma India desk:

Mr. Nilesh Joshi
Business Manager - Italian Machinery in India



C/o The Indo Italian Chamber of Commerce and Industry
11th Floor, Tower - A, Urmi Estate 95, Ganpatrao Kadam Marg,
Lower Parel (W), Mumbai 400013, Maharashtra
P: +91 22 67728186
Mob : +91 7666795385
Fax : +91 22 67728191
Email : italianmachinery@indiaitaly.com