

INDUSTRY **5.0**  
AND **IoT** READY



# LABORATORY DIVISION



**COMERIO ERCOLE**

QUALITY & TECHNOLOGY SINCE 1885 ITALY



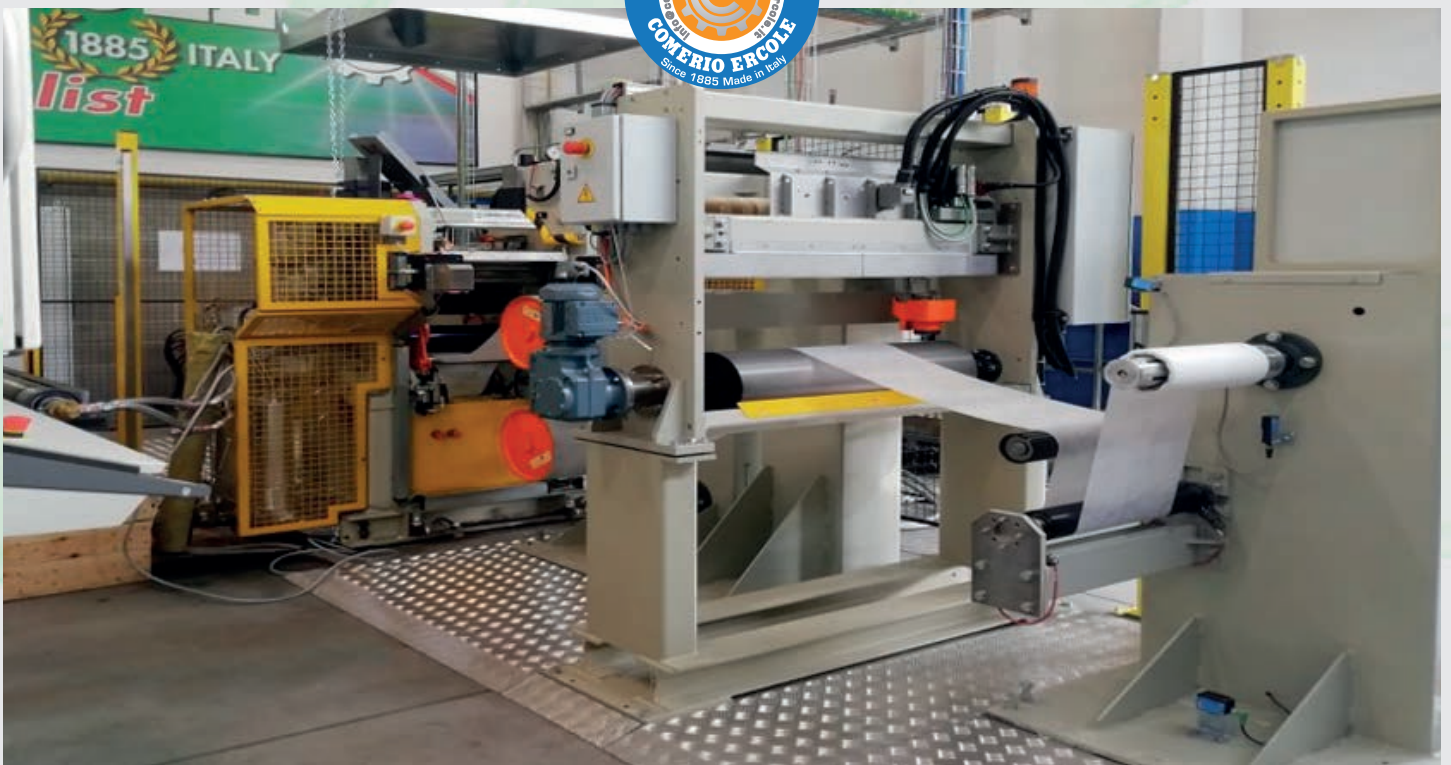
## LABORATORY SERVICE PLAN

**COMERIO ERCOLE** thanks to a selected network of qualified experts can support all customers in production optimization, R&D activities and fine tuning process evaluations as well as arrange **INDUSTRY 5.0** laboratories experiences at **COMERIO ERCOLE LABS**.

The first laboratory named "**RENATO LUALDI**" is operating since 10 years: a two roll vertical Calender, Ø 150 x 300 mm is available with pre and post calender units. **COMERIO ERCOLE** technicians can carry out tests for new formulations of rubber compound as well other elastomer and polymers (PP – PET-PU – etc).

The second laboratory named "**GIULIO NATTA**" is operating since 3 years: a new larger laboratory area is available with a more relevant service for our customers to test new products based on calendaring and mixing technology. The new laboratory is equipped with a complete 4 roll calenderline, including several technological modules in order to be flexible and adaptable to any projects customer requests.

Two single screw extruder is available with capacity from 5 to 75 kg/h, two roll mixing mill 150x300 mm and internal mixer 3 liters.



## COMPETENCE HUB - R&D ABILITY



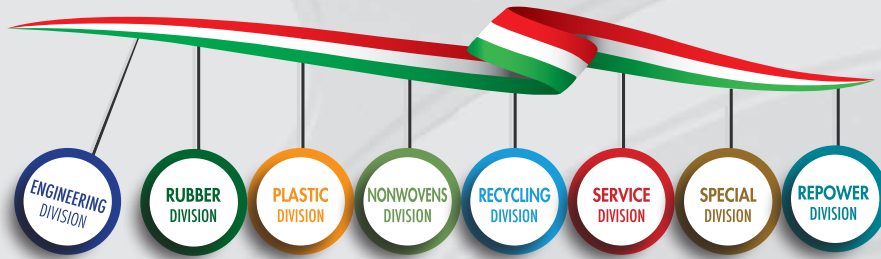
- **Basic Research “BR”** to pinpoint process customer needs, comparing the company technology standard and the general trends, expectations and relevant best practice. It is an exploratory research, often fed by curiosity and intuition.
- **Applied Research “AR”** which aims to find specific solutions exploiting the pure knowledge to develop new products.
- **Experimental Pre-Competitive Development Activities “ED”** happen during the designing stage, to develop and create prototypes. The experimental stages of a product, a manufacturing process or services can lead to substantial changes to the product itself and/or its existing manufacturing process to dramatically improve previous technologies. These activities result in pilot projects and prototypes on a semi-industrial scale to be tested.



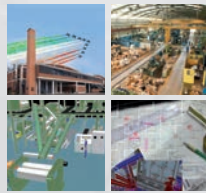
## TRAINING PLAN

**COMERIO ERCOLE**, with a proper experienced and qualified team, guarantees to all customers the possibility to arrange proper training sessions to all required end-user operators according to **ATHENA®** training courses plan at **COMERIO ERCOLE ACADEMY**.





**PRODUCTION PROGRAMM**



**ENGINEERING**

Engineering services  
Know how provider  
Laboratory service  
Turn key special projects & Products



**RUBBER**

Calendering & Mixing Technology  
Rubber production machines and plants  
Vulcanizing rotary machines  
Hydraulic presses  
Tires & Conveyor belts production process plant



**PLASTIC**

Calendering, Extrusion & Stretching Technology  
Special lamination and embossing machines  
Plastic production machines & plants



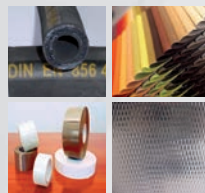
**NONWOVENS**

Thermal bonding calender technology  
Embossing/gauging and laminating technology  
Spunbonding & Air-laid technology  
Nonwovens production machines & plants



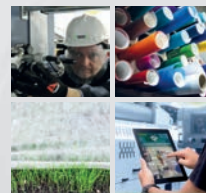
**RECYCLING**

Tire recycling system to obtain secondary raw materials in various extrusion  
Special patented Extrusion technology  
ETP plant from wasted tires rubber crumbs



**SPECIAL PRODUCTS**

R&D projects & tailored products  
Gaskets calendering technology  
Special adhesive tapes calendering technology  
Textile Finishing technology: padders & calenders  
Stainless steel & Paper embossing technology



**REPOWER**

Safety assessment  
Compliance report  
Refurbishment  
Renovation  
Revision  
Industry 4.0 Update



**CUSTOMER SERVICE**

Technical assistance & Teleservice  
Original spare parts  
Refurbishment & Safeties updating  
Training & Technological assistance  
Installation & Commissioning



LABORATORY DIVISION



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