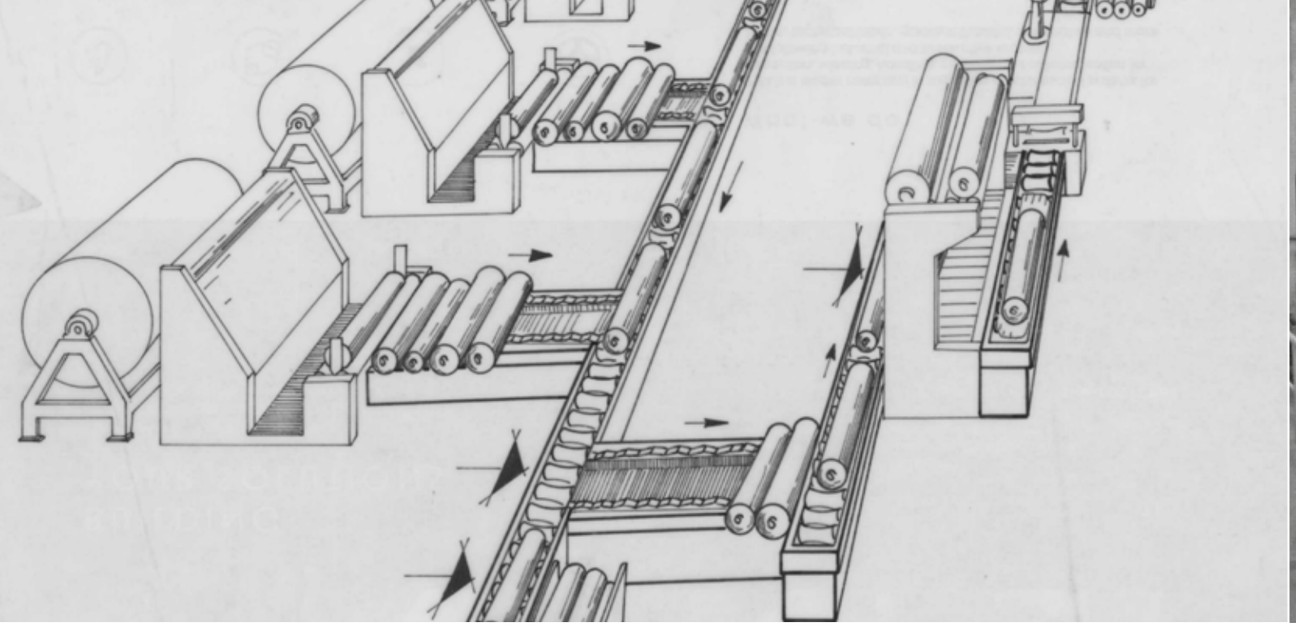
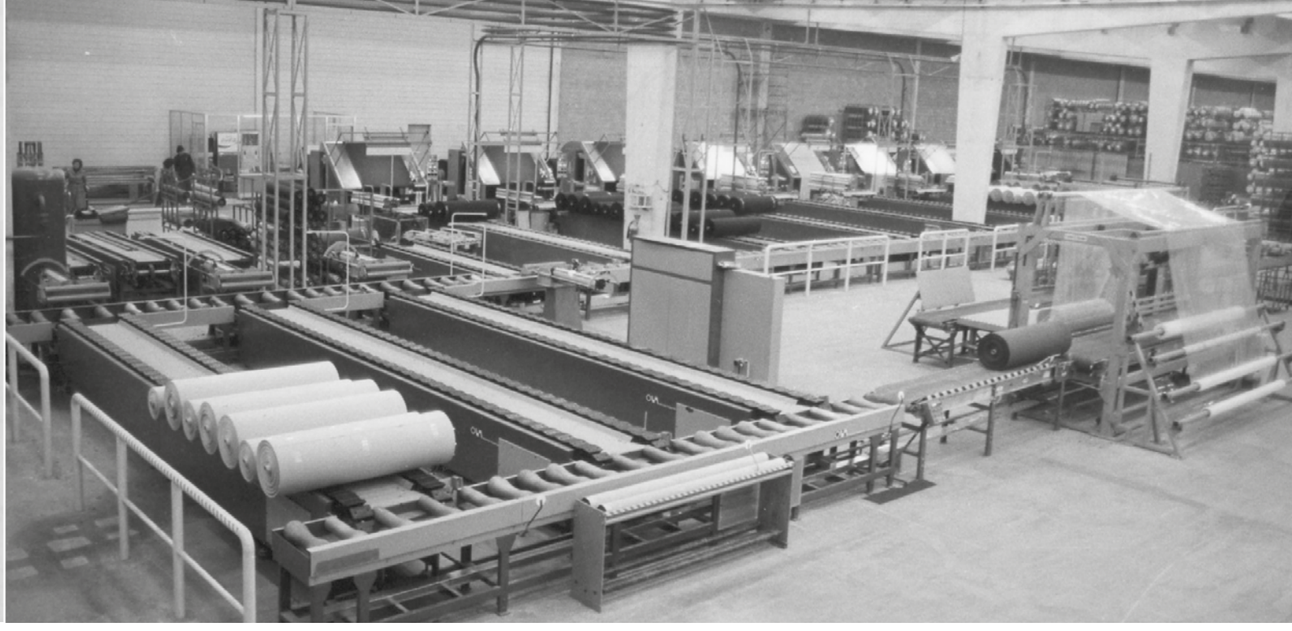
PLM Impianti

BUILDING YOUR SOLUTIONS

100% made in Italy





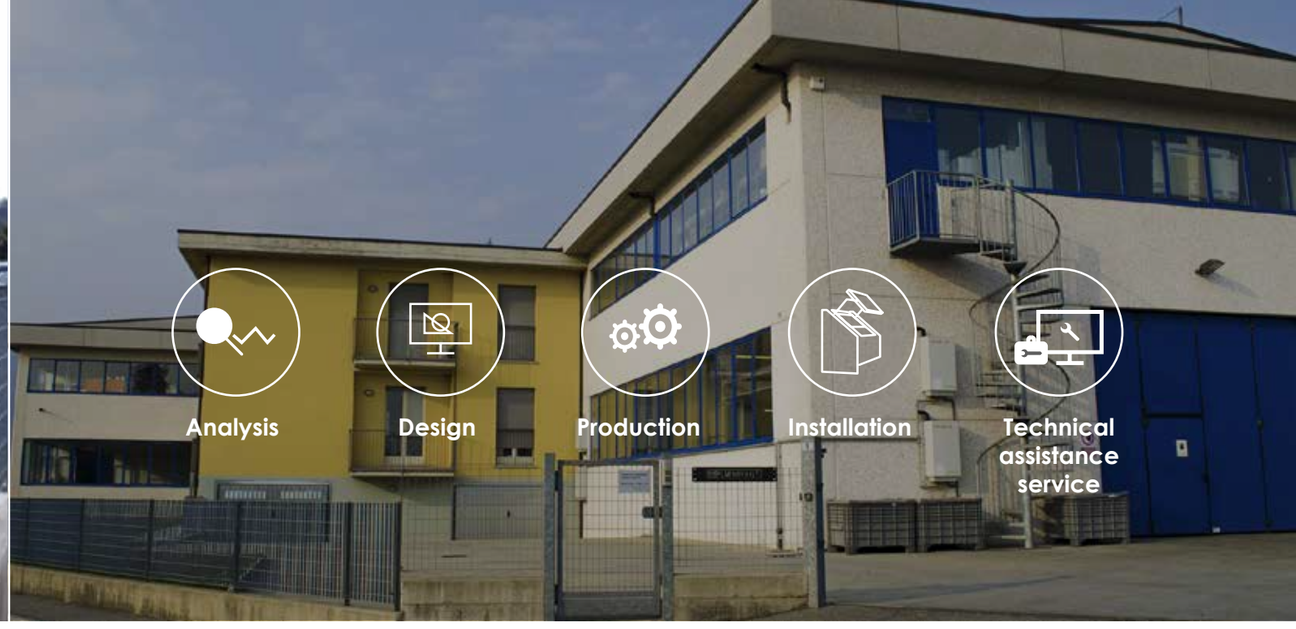
The company

PLM Impianti began its experience in the early 60s, in the province of Bergamo, in Northern Italy. The ambition and passion that we put into our work allowed us to expand from a family business to a leading company in the production of textile machines and automations, without however renouncing the quality and attention to the customers' needs, that have always distinguished us. We value the customer, innovation and sustainability, developing customized solutions that satisfy the most particular and complex demands and long-term solutions that make use of the most advanced technologies of industry 4.0.

To date PLM Impianti exports more than 90% of its Made in Italy production all over the world.

Mission

We have been creating solutions to optimize our customers' production, in terms of quality and consumption, while at the same time contributing to the reduction of the environmental impact of the textile industry. PLM Impianti wants to demonstrate how the textile machinery sector can contribute to the development of global sustainability and circularity along the value-chain of the sectors concerned, through innovative solutions that influence quality, rationalize the decisions made during fabric processing and reduce the deriving impact from the production processes.



Production units

PLM Impianti has a 100% Made in Italy production, to guarantee the quality of its solutions and in such a way as to have full control of the entire production process.

At the head office in Almè (BG) there are five production units, where the customer can have a first-hand view of the entire production process, from design to final testing.

PLM Impianti 100% made in Italy

AuMaTec

Industrial automation unit

ORANGE informatica

Software house

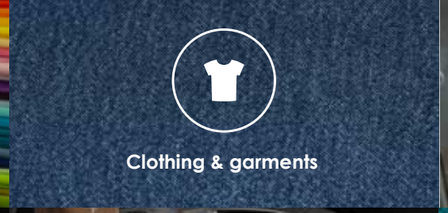
UNIT 1
Headquarters

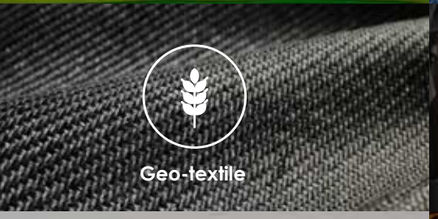
UNIT 2
Software & Electronic Engineering

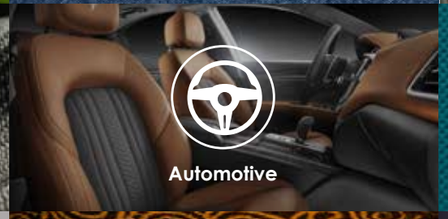
UNIT 3
Assembly & Test

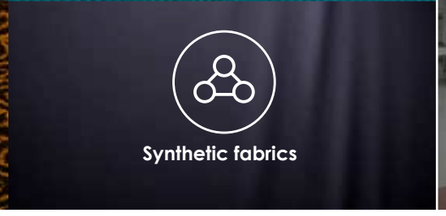
UNIT 4
Pre-assembly and warehouse

UNIT 5
Special processing









Applications

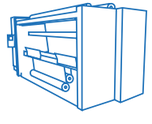
Thanks to the experience gained over the years, PLM Impianti creates ad hoc solutions to enhance the following industrial and production sectors and in compliance with the specific morphology of the fabrics.

Products

Machinery and automation dedicated to **inspection**, **cutting**, **packaging**, **handling** and **palletizing**.
Our solutions are designed to reduce time, costs and processing waste, from quality control to the packing, according to customer needs.

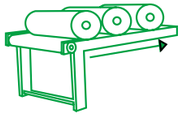
ROTRON

DYNAPAK

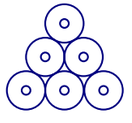


PARSEC

TEXTRA



TRAXELL



QUALITY CONTROL

ROTRON

Inspection machines for fabric quality control, automatic winding and cutting.

PACKING

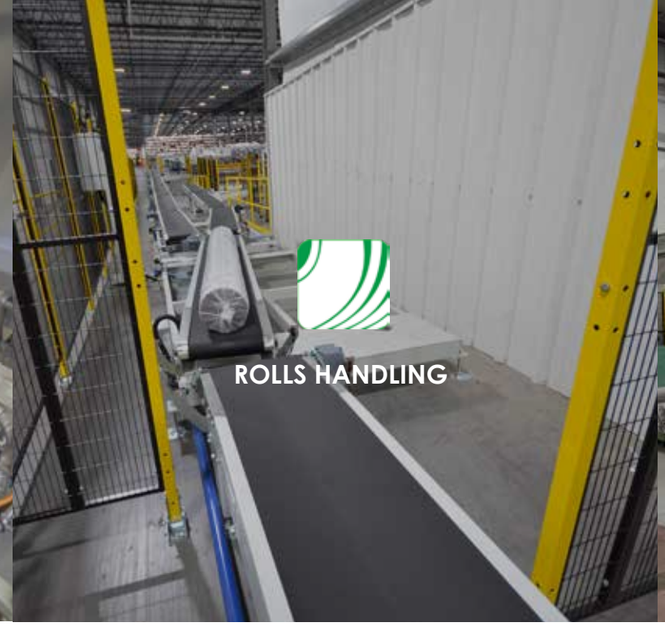
DYNAPAK

Automatic packing machines for rolls, folded fabrics and boat-shaped fabrics equipped with automatic change of the width of the material used to pack, which can be biodegradable, compostable, with recycled film or with paper.

INFORMATIC SYSTEMS

PARSEC

Software for quality control management, roll sorting, labels production and fabric cutting optimization.



ROLLS HANDLING

TEXTRA

Modular automatic devices for handling and collecting rolls. **TEXTRA** systems guarantee a continuous supply of the workflow, combined with a skilful organization of space.

PALLETTIZATION

TRAXELL

Robotic systems for automatic palletizing in different configurations depending on the products to be organized and the specific needs related to storage and shipping.

ROTRON Inspection, measuring, winding and cutting

TARGET

Map the incoming fabric defects, roll the fabric and cut it to the desired meters, taking into account the structure of the fabric and the presentation of the final roll.

SOLUTION

ROTRON inspection machines are designed for fabric inspection and quantity optimization of first quality fabric. Thanks to our inspection system, accurate measurement, precise winding and performing cutting it is possible to better manage the incoming material, obtaining top quality fabric and minimizing waste. An efficient and sustainable solution, for both rigid and elastic fabrics.

INSPECTION

Manual or automatic, aiming to a complete and attentive mapping of the processed fabric.

CUTTING

Manual or automatic cutting, based on the setting required by the customer, the market standards or the information coming from the inspection.

WINDING

Unwinding and winding tensionless devices, in order to grant the production of rolls with the correct measurement.


PARSEC

ROTRON Non-stop Lines

Technical solutions to allow the **ROTRON** model to work in line with other process machines. The technical solutions available differ on the basis of the fabric to be treated in order to guarantee the continuity of the processes and increase the efficiency.

DYNAPAK Packing machines

TARGET

Accurate packing of the roll with polyethilene film without creating plastic waste.

SOLUTION

DYNAPAK machines are characterized by intelligent, careful and sustainable packaging. They are equipped with a patented system for the automatic change of the width of the polyethylene: this allows to use only the quantity of material necessary, avoiding waste.


ATTENTION!


PATENTED


DYNAPAK
PATENTED


PATENTED

DYNAPAK 555R PACKAGING MACHINE FOR ROLLS WITH HIGH DIMENSIONAL VARIATION

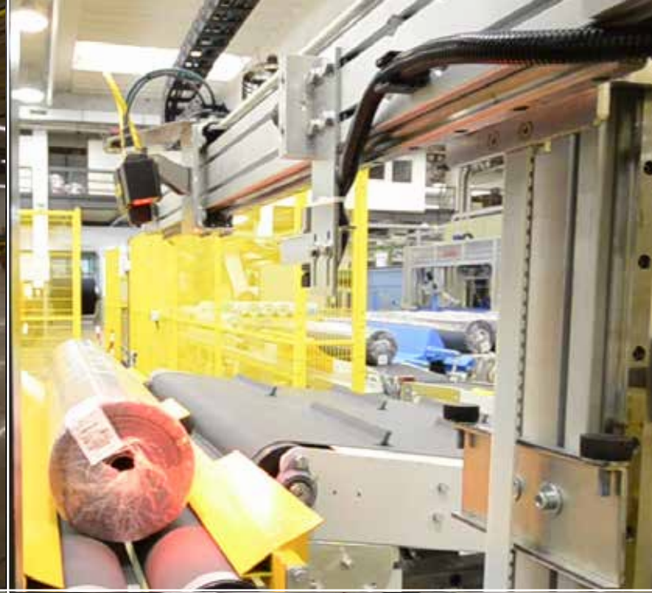
The market need requires flexible packaging with a large margin of the size of the product to be packaged. Reconciling the possibility of using distinct packaging products, such as polyethylene or paper. The packing system **DYNAPAK 555R** allows to handle rolls from 300mm to 6000mm wide and diameters from 80mm to 600mm with the same machine.

DYNAPAK 400DF PACKING MACHINE FOR FOLDED FABRIC




DYNAPAK HEADSTOCK CLOSING DEVICES



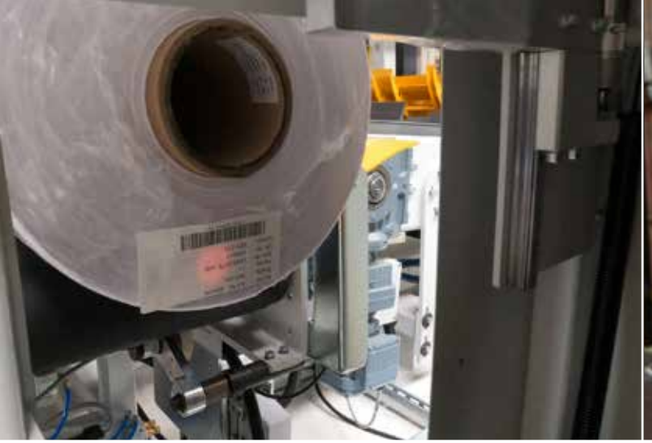
PARSEC Informatic Systems

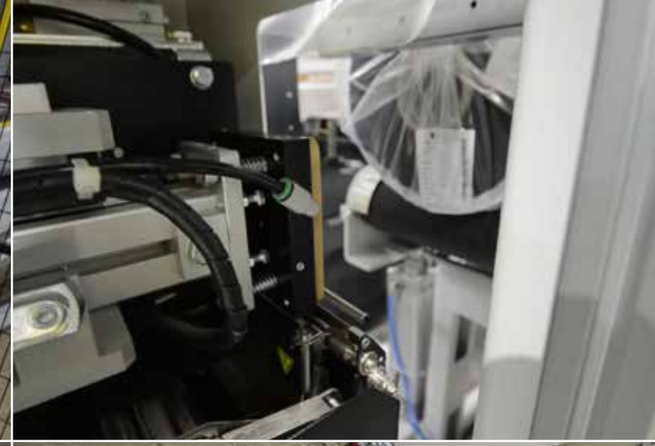
TARGET

Recording of the inspection process data, optimization, packing and handling of the rolls.

SOLUTION

The **PARSEC** software records online the value of the width and length of the fabric, the position of the defects identified, the weight of the finished roll, assigning to the controlled roll a quality scale according to the commercial standard of the product. Monitoring and data collection are functional to traceability, while knowledge of the defects and their position allows for a more conscious and rational use of the fabric, maximizing yield and minimizing waste.



PARSEC AUTOMATIC LABELLING DEVICES



TEXTRA Intralogistics systems

TARGET

Automatic handling of the products, optimizing the production flow, times and use of space in the company.

SOLUTION

PLM Impianti was one of the first companies to produce handling systems for fabric rolls, proposing itself as a leading company in handling technology applied to inspection, cutting and packaging plants. **TEXTRA** systems are modular systems that allow a rational and efficient connection between the various phases, optimize the production flow and the space available to the customer, reducing timing and facilitating the work of the operators.

IG5 Inclined platform

IG18 In free-fall metal containers

IG80/90
In metal containers with controlled fall

EV80/90
Tilting platform for metal containers

KB90
Vertical positioning device

TRAXELL Robotic systems

TARGET

Reduce transportation and storage costs and facilitate handling.

SOLUTION

TRAXELL robotic handling systems are designed for the automatic creation of pallets or crates ready for shipment, available in different models depending on the products to be handled, the desired configuration, and the positions number. They can also be connected to the production line or work independently off-line.

TIPO PK50

Handling device for unloading into containers

Handling device for unloading in cardboard boxes

TIPO PK101

Palletized rolls with pyramid structure

TIPO PK102

Palletised rolls with overlapping layers

TIPO PK103

Crossed palletised rolls

Optimization of the cutting plan

Automatic (with cameras) or manual mapping of the fabric from big batch to big batch and consequent optimization of the cutting plan.

TARGET

Optimization of production yield and quality of the fabric that will be prepared for its final destination.

PLM MACHINES

ROTRON inspection machine and **PARSEC** system for optimization.

- Reduction of the fabric waste and of the second quality amount
- Reduction of the labor cost: reduction of Manpower needed
- Increase in first choice production

INSPECTION

Manual or automatic "batch to batch" with defect map generation

OPTIMIZATION OF THE CUTTING PLAN

Based on defect map and customer standards

AUTOMATIC AND HIGH SPEED GENERATION OF SMALL ROLLS

Automation of winding, cutting, defect rejection, fabric resumption, sample generation, packing, weight acquisition and roll labeling processes

Automatic winding and cutting machines at high speed

TARGET

Execution of high-speed cutting following the cutting solutions proposed by the **PARSEC** software during the optimization phase of the defects and quality of the fabric, based on the customer's production parameters.

PLM MACHINES

ROTRON high speed and precision automatic machine and **PARSEC** systems for the execution of the cut. The machine is equipped with rolls in stand-by position (1,2 or 3) which allow the restart and junction of the fabric for an intelligent management of the first and second choice.

- Standardization of cutting operations
- Reduction of the amount of machinery involved, thanks to the high speed of execution

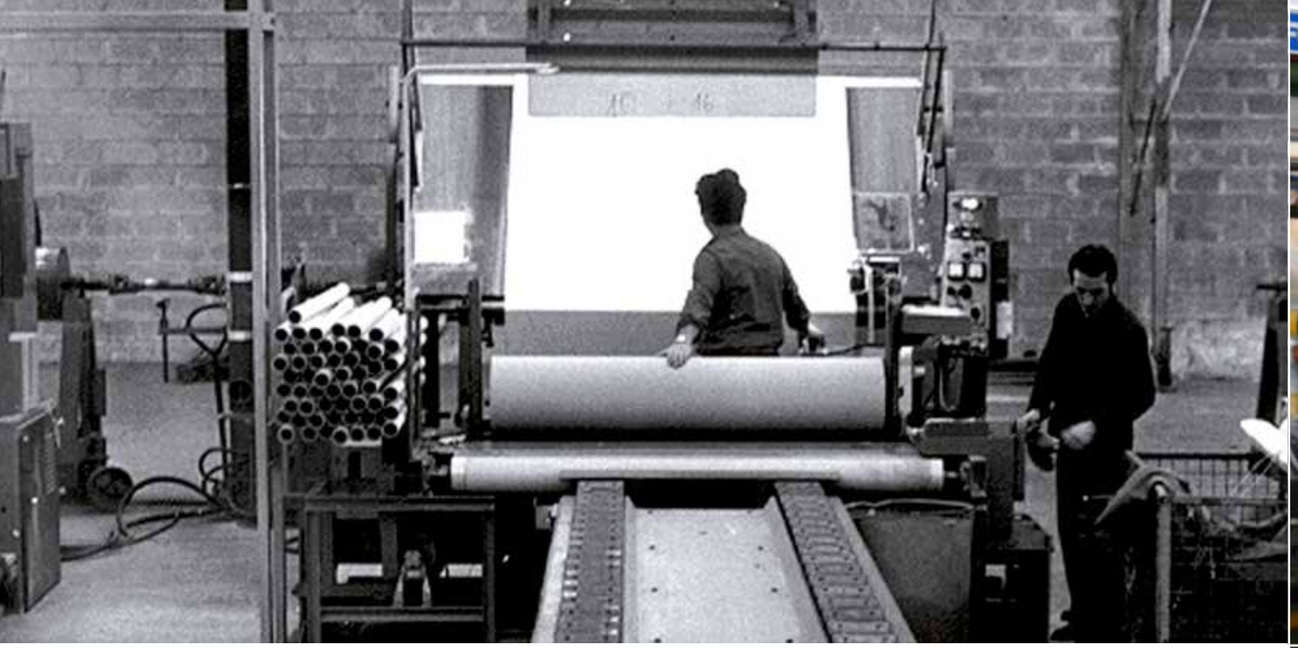
Converting machines

The converting machines are characterized by high-speed unwinding and rewinding processes, from big roll to little roll, with the ability to perform precise cuts at programmed meters. During the process, operations such as insertion of advertising sheets, labelling, packing and optimized formation of shipment batches are carried out.

GO! WIDE

Large format systems

Thanks to the combination of all systems and PLM Impianti technology, it is possible to unwind, trim, inspect, cut, label, pack and merge the production into homogeneous batches up to 6000 mm.



WE ♥ DENIM *Since 1962*

The travel in the textile world of Eng. Ennio Ravasio, founder of PLM Impianti, begins by a historic denim facility in the Bergamo area. In a period of great momentum for Italy, Eng. Ennio Ravasio has the ability to gather the know-how acquired during his work experience in the textile industry, to transform it into something new and to make it available to textile companies hungry for progress and technology.

The in-depth knowledge of the process and of the problems that arise from the production of denim and the passion for mechanics have allowed PLM Impianti to immediately succeed in this sector. As experience has matured and with the adoption of the cutting plan, the possibilities offered by PLM technology for the denim sector have progressed. This has led the company to have partners in the world of denim on all continents.

Technical fabrics and Automotive

The technical fabric is now used in the most diverse industrial and non-industrial fields. Our inspection, cutting, trimming and rewinding solutions are suitable for processing any type of technical fabric, such as laminate, coated fabric, automotive, screens, PVC, paper industry, non-woven fabric, leather, geotextile, aramid and hybrid fabric.

Concerning the automotive sector, in order to respond to the more complex technical requests of automotive companies, over the years we have designed a line of ad hoc solutions to meet the high production standards of the sector, leading us to be present in the most prestigious companies in the sector.

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

EG-Baumusterprüfbescheinigung

EC type-examination certificate

Ausgestellt für: FLM Impianti S.r.l. Via L. Galvani 1/3 24011 Almé ITALIEN

Rechtsbezug: Richtlinie 2004/22/EG des Europäischen Parlaments und des Rates vom 31. März 2004 über Messgeräte (ABl. L 135 S. 1), umgesetzt durch die Vierte Verordnung zur Änderung der Eichordnung vom 9. Februar 2007 (BGBl. I S. 170)

Directive 2004/22/EC of the European Parliament and of the Council of 31 March 2004 on measuring instruments (OJ L 135 p. 1), implemented by the Fourth Ordinance for amending the Verification Ordinance dated 9 February 2007 (Federal Law Gazette I, p. 170)

Geräteart: *Type of instrument* Längenmessgerät *Length measuring instrument*

Typbezeichnung: *Type designation* ROTRON PFN170

Nr. der Bescheinigung: *Certificate number* DE-09-M009-PTB004

Gültig bis: *Valid until* 29.07.2019

Anzahl der Seiten: *Number of pages* 10

Geschäftszeichen: *Reference No.* PTB-5.45-4039197

Benannte Stelle: *Notified Body* 0102

Ort, Ausstellungsdatum: *Date of issue* Braunschweig, 30.07.2009

Zertifizierer: *Certifier* Im Auftrag *By order* Ingo Lohse

Bewerter: *Evaluator* Im Auftrag *By order* Holger Zimmermann

Klausel

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PLM sustainability: measured and traceable

Sustainability is rooted in the values of PLM Impianti. As a company and as individuals, we firmly believe that everyone can contribute to safeguarding our environment and its resources, and that every gesture makes a difference. As a company we can change our habits and promote a more conscious environmental awareness.

Our commitment is to spread greater awareness among our employees and our customers, paying attention to our internal production processes and creating durable, modular solutions based on the reduction of textile waste and overall energy savings.

Our commitment to sustainability KPIs

SOCIAL

24%
Women employees

40%
Employees under 35

96%
Locally recruited staff

100%
Production at km 0

GOVERNANCE

50%
Women on the board of directors

Stability and financial independence

15%
Investments in innovation

ENVIRONMENTAL

Maintenance provided in line with savings targets

80%
80% of production waste is reused or recycled internally and externally

PLM products belong to the "durable goods" category and are easily reconditioned

V
PLM products are eligible to be sold as used or reconditioned

PLM Impianti

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