



COMPANY PROFILE

HISTORY

Laserpin Srl was founded in 1949 in Cologno Monzese, Milan – Italy.

It specialized at first in the textile industry, manufacturing linear and circular combs for fibers. It soon afterward developed micro perforation equipment and its core business became the production of punching units (macro perforation), hot micro perforation (first company to use it on plastic film) and accessories like unwinders, and re-winders.

By 1998 the business had further expanded to the perforation of stretch film and PVC film for the food industry and to the production of re-winders, cutters, and thickness reducers.

Currently, Laserpin offers a complete set of perforation equipment on moving web for a wide range of applications: textile, automotive, medical, food packaging, agricultural, and fibrillation.

Thanks to its long-standing experience in the market and know-how, Laserpin is a reliable partner who provides its customers worldwide with high-quality, state-of-the-art solutions for their specific needs.

The mission **is to help customers find a complete solution for their specific needs regarding:**

- **MICROPERFORATION**
- **PUNCHING UNITS**
- **LASER PERFORATION**

To further meet our customers' requirements we have strengthened our service of spare parts delivery.



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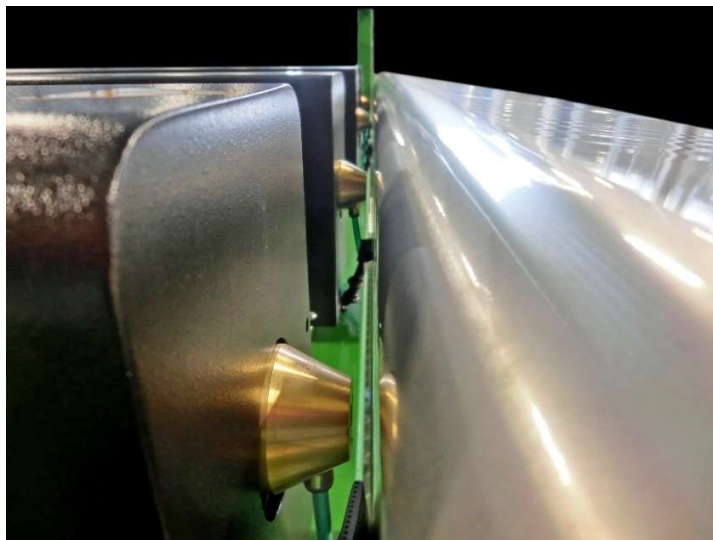


CORE BUSINESS

Laser Perforation

The more recent technology, it maximizes the quality of the perforation process and of the holes.

Additionally, the Laser units allow operating with more perforation lines simultaneously, with a maximum frequency of 1 kHz while calibrating the breathability of the film. These units are particularly suitable for IV and V range packaging (washed, cut and dried vegetables). The laser equipment can be installed on pre-existing production lines or as a stand-alone unit. The application of laser technology in the perforation of thermoplastic film induces a calibrated transpiration, thus reducing the ordinary maintenance only to a sporadic cleaning and removing any extraordinary maintenance.



Main Applications:

- Food packaging to keep freshness and fragrances by controlled perspiration on fruits and vegetables bags (perforation less than 100 micron).
- To produce packaging for cooking films in order to avoid breaking of packaging and ensure steam release;
- To pre-cut films in longitudinal and transversal directions to facilitate the tear.



Punching Units

Punching units make round or shaped holes of different sizes on a moving web, mostly on plastic film. The great advantage of Laserpin's punching machines is their adaptability to the customer's requirements and the ease of integration with product lines (i.e. slitters, extruders, bag making machines, laminators). Laserpin installs **dies** whose lifespan **is five times higher** than the top competitors'.



Main Applications:

- Mulching
- Handles on bags
- Holes on the bottom part of plastic shopping bags.
- Holes for air resistance reduction on signs and posters.
- Holes on plastic sheets for perspiration on wooden fruit cases
- Ventilation holes on very thick LDPE plastic film for pallet protection
- Identification holes to identify defective products or other needs
- Laces to close rubbish bags



Micro Perforation

Laserpin started producing micro perforators in the fifties and in 1980 was the first company to develop the hot needles micro-perforation Technology on plastic film. It consists in making holes, melting the material, by heating the needles. Needles are installed on interchangeable cylinders on a hot shaft which operates them. Cold micro-perforation is a low-cost solution still used in many applications.

Among the different lines of hot and cold micro-perforators, the H200 model is the top-of-the-range product, designed for the processing of large quantities of material. The dimensions of the pin-shaft, bigger than the standard models, is designed to adjust the shaft's speed to the film's speed. The heating system (divided into three sections of infrared lamps) guarantees a constant temperature, thus making it possible to create perfect holes on every type of thermoplastic material, independently of the density of holes. Laserpin hot micro-perforation models can work up to a speed of 250 meters/minute.



Main Applications:

- Bread packaging
- Food packaging
- Fibrillation
- IV range
- V range
- Adhesive tapes
- Bandages
- Sanitary napkins
- Sound and heat isolation
- Ventilation