

LaserPin

H150



The micro perforator H150 is the standard model of Laserpin's hot perforation range

The H150 consists of a perforation group made of a heating system, a perforation roller, on which the pin cylinders are mounted, and a counter roller, which can be made of natural fiber or rubber depending on the material to be processed. The latter brings the film into contact with the former.

The heating system consists of two sets of infrared lamps with a starter power of 16Kw per meter, with segmented power on three independent power channels, PID managed.

They optimize a balanced temperature over the entire surface of the pin cylinders. The temperature control system maintains the constant value chosen for the perforation process, thus uniformly heating the needles and guaranteeing a homogenous quality of the holes.

When perforating with hot needles the hole is formed by melting and sublimating the film, forming a neat hole. It is ideal for perforation of both mono and bi-oriented film. The micro perforator has a hardened steel structure frame, with a high degree of rigidity. All the mechanical parts are designed to operate at high temperatures.

The drive system, consisting of a driver, servomotor, and encoder, makes it possible to adjust the rotation speed of the perforation roller to the running speed of the material (up to a maximum of 200 meters/minute). The synchronization of the speed ensures an accurate diameter and uniformity of the holes with both high and low densities of pins.

The operational settings (speed, temperature) are controlled by an innovative touch screen system.

Option: a laser sensor can be fitted to stop the machine in case of a material break.

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The operating speed can reach a maximum of 200 meters/minute. It is recommended for perforation of different hole patterns (high or low density) and for materials with a thickness of 12 -40 µ.



Maximum Working Width

1600 mm

Motor

Yes

Maximum Speed

200 meters/minute

Heating System

16 Kw/meter

Maximum Temperature

400 °C

Diameter of the Holes

0.3-2.8 mm

Touchscreen Control System

Integrated

Penetration Adjustment System

Yes

Type of Material



LDPE



HDPE



PP



BOPP



PU FOAM



EXPANDED PVC



PET



NON WOVEN



ARTIFICIAL LEATHER

MAIN APPLICATIONS

FRUIT PACKAGING

BREAD PACKAGING

INSULATION

CORRUGATED PROTECTION

CASING

ARTIFICIAL LEATHER
DECORATION