

## MACRO-PERFORATOR MODEL PU 40



This is a **FAST AND STABLE DEVICE** designed to punch **MACRO HOLES** of various diameters and shapes in **MOVING MATERIAL** and in particular, it works with **PLAIN OR PRINTED FILM**. This model has to be integrated into existing machinery such as extruders, slitters, bag machines etc. It is suitable to make holes on fruits and vegetables bags, garbage bags, paper bags, foam etc.

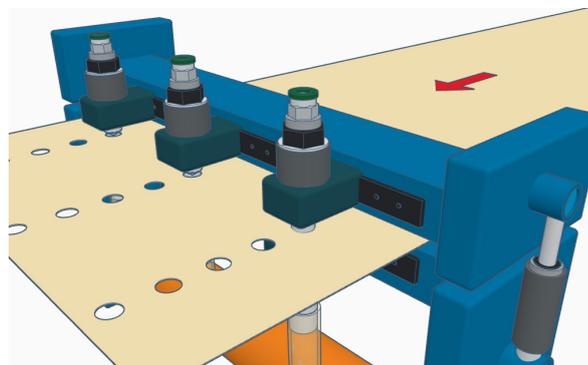
It is **IDEAL FOR AGRICULTURAL APPLICATIONS** (e.g. **MULCHING**) and to punch large diameter holes.

### HOLES OF

Ø 50mm → Ø 100mm

### How it works

The moving film passes through the slit between the beams and is punched by the punching units, through a **PUNCH** and **DIE** system, using **PNEUMATIC MOVEMENT**. This device has a **movable lower beam**, which facilitates and reduces the time needed to change and align the perforation tools.

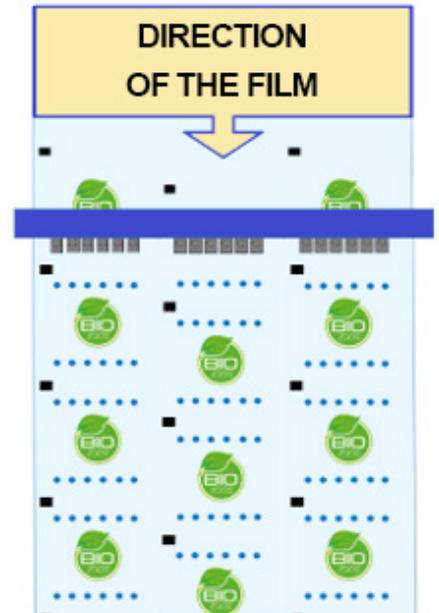


### DATA SHEET

<b>Speed</b>	200 mt minute*
<b>Punching frequency</b>	35 holes per second**
<b>Ø hole</b>	Ø min. 50mm* / Ø Max. 100mm
<b>Minimal distance between holes</b>	30mm**
<b>Hole shape</b>	Circular, valve, euroslot, handle, custom
<b>Max. Number of punching units per device</b>	48
<b>Position of the punching unit</b>	Mounted on one side of the device
<b>Air pressure</b>	Min. 6 bar
<b>Voltage</b>	400 V+N+T - 50Hz
<b>Compressed air inlet pipe</b>	Min. 12 externally calibrated pipe
*	The value depends on the type of material
**	The value depends on the model

## OPTIONAL: QCSM1 ELECTRONICS - SOFTWARE

For **LINEAR** or **ALTERNATING HOLES** or holes with a **CUSTOM PATTERN**; to work with a **PHOTOCELL** and an **ENCODER** to process **PRINTED FILM** with a print mark on it.



### WHEN ASSOCIATED WITH THE QCSM1 ELECTRONICS

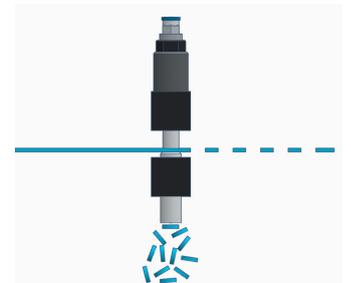
PLC
Industrial computer
Electric control panel
Touch screen
Software with integrated 4.0 predisposition
Control of each punching unit
Recipe management (insertion, storage, recall)
Photocell
Encoder
Max 96 protected digital outputs
Connection via Bluetooth for card diagnostics (for 4 devices)

### SOFTWARE FUNCTIONS

Software that can be managed from the machine or remotely through PC or tablet
Control of each punching unit
Enabling the punching units
Setting the power of the punching units
Setting the punching frequency
Start and stop functions
Recipe management: insertion, storage and recall
With a photocell as an option: jobs with print marks on the film

### MATERIALS PROCESSED BY THE PU40

PP - PET - PVC - LDPE - HDPE - BOPP CPP - LAMINATED - LEATHER - ECO LEATHER - SYNTHETIC LEATHER - COMPOSTABLE - BIODEGRADABLE - NO-WOVEN - TYVEK - FOAM - RAFFIA - PAPER



*Vacuum system connected to the lower part of the punching units*



*Punches and dies for various types of holes*



**SPARK MACHINERY**

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## OPTIONALS



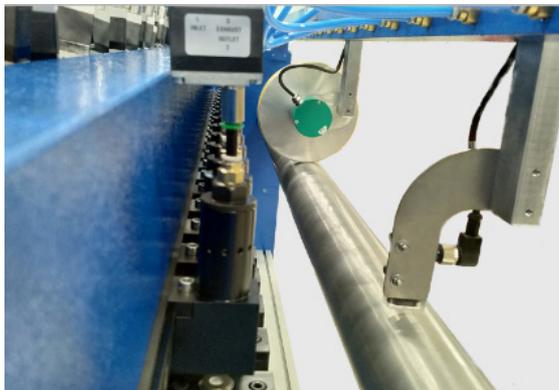
### Trolley

The macro-perforator can be mounted on a trolley with rail wheels or with pivoting wheels, depending on the conformity of the production line in which it will operate.

It is also possible to request the **electrical panel** mounted on the trolley when ordering.

### Partial soundproofing

The partial soundproofing cage consists of an aluminium structure in which the machine is inserted, correlated with openable doors and internally lined with sound-absorbing polyurethane foam panels. This cage significantly limits the emission of airborne noise produced by the device in operation and is strongly recommended to improve the working environment.



### Photocell and Encoder

For works which require the distance between holes to be set, it is possible to use a high-quality encoder and photocell, both connected to a support rod.

Both the encoder and the photocell are essential for processing films with print marks on the material.

The encoder and the photocell are strongly recommended for high performance and guarantee maximum precision at a competitive price.

### SM-AI2 industrial vacuum system

For the removal of waste residues produced during processing, we offer this professional vacuum system.

It ensures excellent results, improving performance of the **PU40** macro-perforator.



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