

## MACRO-PERFORATOR MODEL PU 22



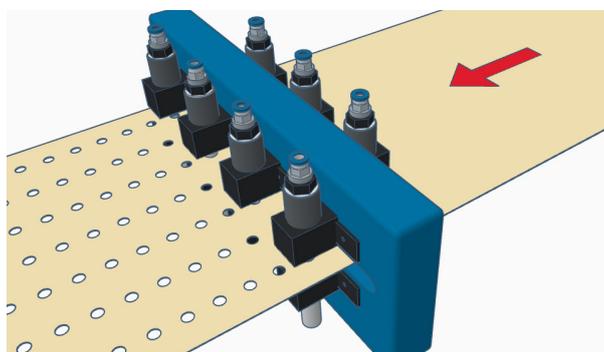
This device **OCCUPIES LITTLE SPACE** and is designed to punch **MACRO HOLES** of various diameters and shapes in **MOVING MATERIAL** and in particular, it works with **PLAIN OR PRINTED FILM**. This model has to be integrated into existing machinery such as extruders, slitters, bag machines etc. It is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

This particular model is suitable for processing film where it is necessary to **ADJUST THE HORIZONTAL DISTANCE BETWEEN THE HOLES**.

**HOLES OF**  
 $\varnothing$  0,5mm   $\varnothing$  50mm

### How it works

The moving film passes through the slit of the body and is punched by the punching units, through a **PUNCH** and **DIE** system, using **PNEUMATIC MOVEMENT**.

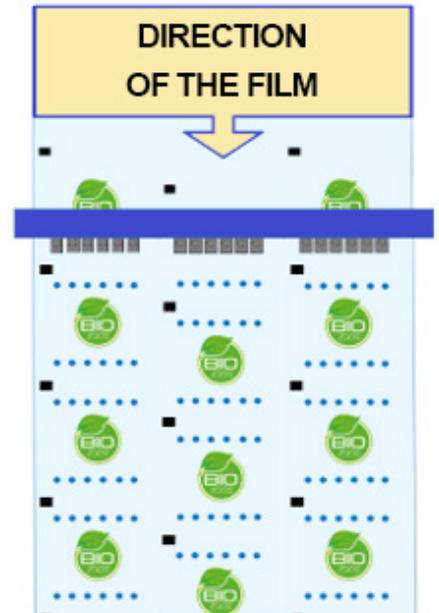


### DATA SHEET

<b>Speed</b>	200 mt minute*
<b>Frequency with the punching units aligned</b>	70 holes per second**
<b><math>\varnothing</math> hole</b>	$\varnothing$ min. 0,5mm* / $\varnothing$ Max. 50mm
<b>Minimal distance between holes</b>	Adjustable
<b>Hole shape</b>	Circular, valve, euroslot, handle, custom
<b>Max. Number of punching units per device</b>	16
<b>Position of the punching unit</b>	Mounted on both sides 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
<b>*</b>	The value depends on the type of material
<b>**</b>	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.

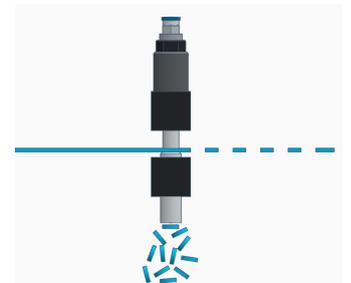


### WHEN ASSOCIATED WITH THE QCSM1 ELECTRONICS

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



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



*Punches and dies for various types of holes*

### MATERIALS PROCESSED BY THE PU22

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



**SPARK MACHINERY**

Spark Machinery s.r.l. - P.IVA 01392850457

Production site  
Via Toscana n°114  
56035 Perignano (PI)

info@sparkmachinery.com  
+39 0587812952  
www.sparkmachinery.com

## OPTIONALS



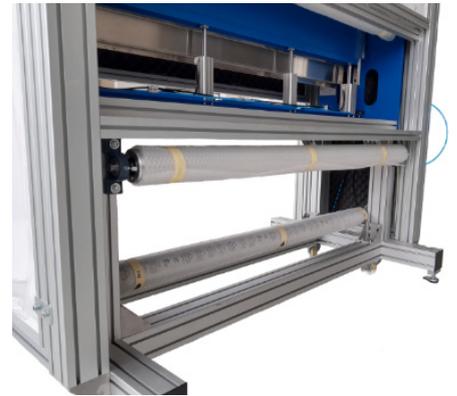
### Partial soundproofing

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.

### 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.



### 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-AI 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 **PU22** macro-perforator.



Spark Machinery s.r.l. - P.IVA 01392850457

Production site  
Via Toscana n°114  
56035 Perignano (PI)

info@sparkmachinery.com  
+39 0587812952  
www.sparkmachinery.com