

MACRO-PERFORATOR MODEL PU 20

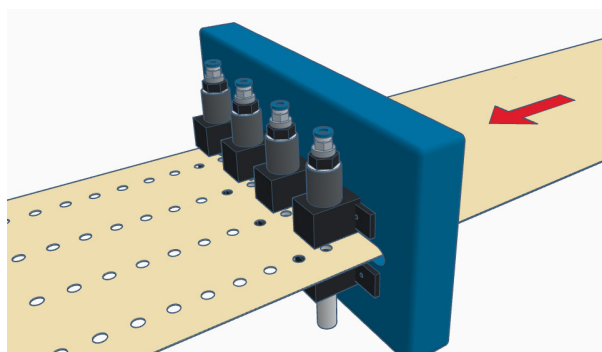


This device **OCCUPIES LITTLE SPACE** and is designed to punch **MACRO HOLES** of various diameters and shapes in **MOVING MATERIAL** and in particular, it works with **PLAIN OR PRINTED FILM**. This model has to be integrated into existing machinery such as extruders, slitters, bag machines etc. It is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

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**.

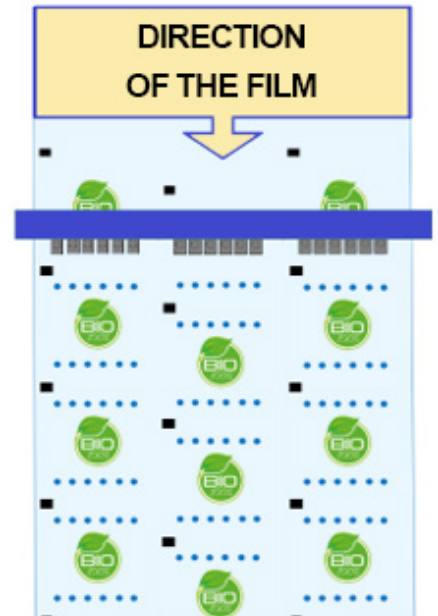


DATA SHEET

Speed	200 mt minute*
Punching frequency	35 holes per second**
\varnothing hole	\varnothing min. 0,5mm* / \varnothing Max. 50mm
Minimal distance between holes	30mm**
Hole shape	Circular, valve, euroslot, handle, custom
Max. Number of punching units per device	16
Position of the punching unit	Mounted on one side of the device
Air pressure	Min. 6 bar
Voltage	400 V+N+T - 50Hz
Compressed air inlet pipe	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

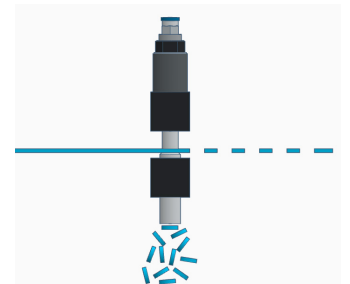
- PLC
- Industrial computer
- Electric control panel
- Touch screen
- Software with integrated 4.0 predisposition
- Control of each punching unit
- Recipe management (insertion, storage, recall)
- Photocell
- Encoder
- Max 96 protected digital outputs
- Connection via Bluetooth for card diagnostics (for 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 PU20

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



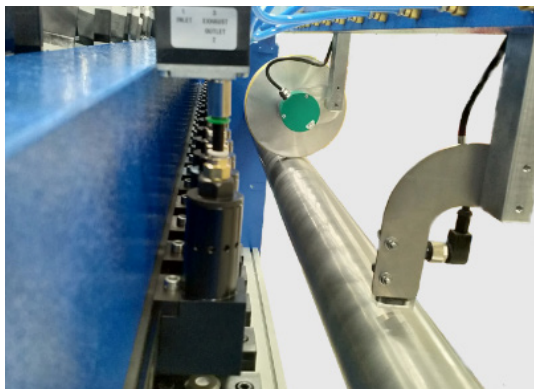
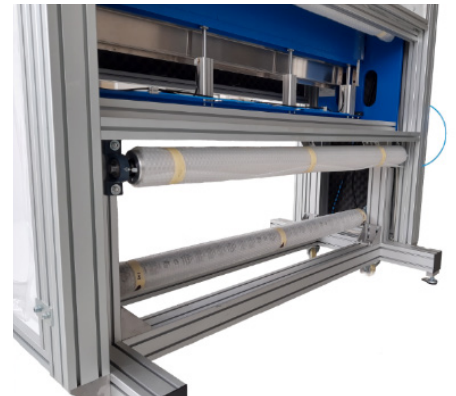
Partial soundproofing

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 **PU20** macro-perforator.



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