

# PAPERONE

LASER CUTTING & MARKING



[WWW.AM-LASER.COM](http://WWW.AM-LASER.COM)

**PAPERONE** is the most innovative CO<sub>2</sub> LASER system for punching, cutting, trimming, microperforating, piercing, engraving, bleaching and marking paper sheets or cardboard in UNI ISO sizes and, furthermore, gum-coated paper, many combined materials, PP, OPP, PET.

**PAPERONE** is the only system able to do perfectly at register and simultaneously, all work phases performing a single sample or batch ensuring high productivity and accuracy, besides a wide flexibility in many application fields. Thanks to a fast, accurate and capacious feeder it can feed many different sizes from A4 up to 50 x 70 cm and thickness from 120 up to 300 grs/m<sub>2</sub>.

**PAPERONE** is fitted out with an advanced belt conveyor to manage with high accuracy the die-cut sheets, removing and collecting the scraps. Thanks to different unloading options (also automatic) it is possible, starting from a 50x70 cm sheet, to obtain the finished product in different sizes.

**PAPERONE** simplifying and unifying different processing is absolutely the most flexible and fastest machine to carry out complex die-cutting works and fine ART-WORKS on – sample binders – company brochures – promotional – document cases – greeting cards – leaflets – pinstriped paper – posters – boxes – envelopes, with details unreachable by traditional die-cutting machines.

## TECHNICAL FEATURES

### General

- Max work area: 700 mm x 500 mm [27.56" x 19.69"]
- Max sheet size: 710 x 510 mm [27.95" x 20.082"]
- Min. sheet size: 297 mm x 210 mm [11.69" x 8.27"]
- Paper weight: 120 – 380 gr/m<sup>2</sup>
- Register: ± 0,05 mm
- Max throughput speed (1): 1.000 copy/h
- Feeder capacity: 500 mm [19.69"]
- Upper hood arrangement for exhausted smoke.
- (1) Feeder mechanical capability

- Grated working plan with grill and exhaust connection arrangement.
- Automatic feeder with double sheet detachment device
- Selectable front registers; side registers with ball square system.
- Sheet handling by single gripper.
- Manual or falling collect unloading.
- Automatic feeder arrangement.
- Small scrap collecting box
- Automatic/semiautomatic operating.

### Laser source

- Source: CO<sub>2</sub>
- Power (Watt): 115                      238
- Peak power (Watt): >230                      >480
- Frequency (kHz): 0,1 – 50                      0,1 – 50
- Pumping: RF discharge
- Cooling: H<sub>2</sub>O closed loop
- Estimate average lifetime: 14.000 h

### Scanning head

- Focal: f= 200mm [27.87"]                      f= 650 mm [25.59"]
- Work area (mm): 200 x 200 [27.87"x27.87"]  
500 x 500 mm [25.59"x25.59"]
- Spot diameter: ≈ 150 μm                      ≈ 450 μm
- Writing speed (linear): > 3m/sec [9.84 ft/sec]
- Writing speed (raster): > 5 m/sec [16.40 ft/sec]
- Positioning speed: > 5 m/sec [16.40 ft/sec]
- Aiming beam: diode pointer 650 nm

### Mechanical structure:

- Structure in stabilized welding and grounded steel of exceptional sturdiness to avoid vibration during working phase.
- X, Y, Z scanning head axis controlled by double screw movement
- Clamp movement by controlled axis
- Sheet evacuation by metallic belt

It enables to avoid vibrations during work phase movements  
And carry out single processing even onto high-thickness materials

It enables to process on all work area with different focal streamlining fire point combining with single work areas.

It enables the automatic scavenging from sheet and scrap work area

### Options

- **Control sensor of double sheet on feeder**
- **Bilateral register system**
- **Optical register**
- **Stacker (stack height = 500 mm)**
- **Halved booth doors**
- **AM-Drive-RCM Software**

It ensures a single-sheet processing

It enables to carry out front and back processing

It ensures the register even on non-regular sheet

It enables the processed sheet unload and automatic stacking

It enables single-sheet processing and/or high-thickness materials

AM Drive RCM software options enable by internet connection to activate a tele-assistance service. AM tele-assistance operative station can this way enter directly the system installed by client to carry out all system diagnosis activities and assistance to operator.

- **EOLO THC 400 activated filters smoke exhauster**

Capacity : 450 m<sup>3</sup>/h  
Power: 3 kWatt  
Voltage: 400 VAC, 3ph 50/60 Hz, N, G

AM has the right to modify the features mentioned in own catalogues at any time and without any notice.



AM srl - Via J. Linussio, 1 - 33020 - AMARO (UD) ITALY  
Tel +39 0433 486254 fax +39 0433 486257  
www.am-laser.com - info@am-laser.it