

MLP-10

Laser Perforation for Single Bobbin of Cigarette Tipping Paper



Picture shows the turnkey MLP-10 system including the Micro Perforator, the Rewinder, the CO₂- Laser Source.

The MLP-10 System is a turnkey Laser Perforator Systems which offers highly attractive state-ofthe-art technology for offline perforation of single bobbin of cigarette tipping paper.

The MLP-10 System perforates a maximum of 8 rows (max. 4 rows per perforation zone) and up to 40.000 holes/second at a maximum web speed of 600 m/min. The maximum web width is 100 mm.

The MLP-10 System perforates an extremely consistent hole-to-hole quality which results into a minimum standard deviation giving the MLP-10 System the highest reliability.





Technical details of the MLP-10 System:

Rewinder:

- Max. bobbin diameter: •
- Paper length unwind:
- Max. bobbin / paper width: •
- Ramp up time:
- Max. winding speed:
- Printed and un-printed paper: •
- Web guide:
- Slitter: •
- Base plate:

Micro Perforator:

- Based on patented Vario-Polygon System
- Rotating speed:
- Max. optical pulse frequenz:
- Hole density:

up to 12.000 RPM / others on request up to 40.000 holes/sec, 10.000 Hz per row

- range from 5 30 holes/cm
- 50 to over 100 Coresta Units/row
- Typ. Porosity: Hole diameter: adjustable from 50 - 150 µm

Focusing Heads:

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- Max. 8 perforation heads
- All heads can be moved across the whole web
- Each focusing lens is adjustable with 0,01 mm resolution
- Each head with individual shutter

CO₂ – Laser source with 10,6 µm wavelength:

- Laser power 200 Watt or 400 Watt, others on request
- Optimised power stabilisation

Chiller:

- "Water-to-Air" or "Water-to-Water" cooling
- +/- 0,5°C temperature regulation

Exhaust dust Filter system:

Removes and filters debris of the perforation process

35 to 45 gr./sqm. 1 optical edge sensor no slitting operations for single bobbin

0 - 600 m/min below 3 sec.

450 mm

max. 3500 m

max. 100 mm

600 m/min

solid steel base plate for perfect long term stability