

MLP-50 TWIN

Laser Perforation for Multiple Bobbin of Cigarette Tipping Paper



Picture shows the turnkey, ready for production MLP-50 TWIN system including two Micro Perforators, the Rewinder with slitting knives and 0- meter option, both CO₂- Laser Sources and the control cabinet.

The MLP-50 TWIN System is a turnkey Laser Perforator Systems which offers highly attractive state-of-the-art technology for offline perforation of cigarette tipping paper.

The MLP-50 TWIN System perforates a maximum of 32 rows and up to 1.000.000 holes/second at a maximum web speed of 800 m/min. The maximum web width is 350 mm for multiple bobbin operation.

The MLP-50 TWIN System is a ready for production system which perforates an extremely consistent hole-to-hole quality which results into a minimum standard deviation giving the MLP-50 TWIN System the highest reliability.

Technical details of the MLP-50 TWIN System:

Rewinder:

- Max. bobbin diameter: 800 mm
- Paper length unwind: max. 4000 m, optional up to 12000m
- Max. bobbin / paper width: max. 350 mm, others on request
- Ramp up time: 0 - 700 m/min below 3 sec.
- Max. winding speed: 800 m/min
- Printed and un-printed paper: 35 to 45 gr. / sqm.
- Web guide: 2 optical edge sensor for best winding quality
- Slitter: max. 4 knives for inline slitting
- Base plate: solid steel base plate for perfect long term stability

Micro Perforator:

- Based on patented multiple Vario-Polygon System
- Rotating speed: up to 70.000 RPM
- Max. optical pulse frequency: up to 1.000.000 holes / sec, 31.250 Hz per row
- Hole density: range from 5 - 50 holes/cm
- Typ. Porosity: 50 to over 4000 Coresta Units
- Hole diameter: adjustable from 50 -300 μ m

Focusing Heads:

- Max. 32 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 μ m wavelength:

- Laser power ranging from 2000 Watt to 8000 Watt
- Optimised power stabilisation

Chiller:

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

Exhaust dust Filter system:

- Removes and filters debris of the perforation process