The New MRV I/O by CUIR

Presented by Fabien Val – CUIR CEO

20 SuperCorrExpo Tech Talks
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MRV I/O technical specifications

- Printing and diecutting in line without trim, with top and bottom printing,
- Board size: from 550x500 mm to 1310x1700 mm, according to the customer,
- Maximum die-cut and print size: 1260x1650 mm,
- Vacuum from the bottom with use of belts for the sheets transport,
  - 4000sh/h: length < 700 mm,
  - 3000sh/h: length > 700 mm,
- No power shaft, independent brushless motors (to increase accuracy and reliability),
- Remote maintenance through internet,
- « Cast one piece machine »: extremely easy to install or add other print unit,
MRV I/O Options

1) IR/UV driers

2) Dust remover

3) Control camera

4) Quick change of lightweight anilox rolls

5) Re-register cell for litho-laminated sheets,

6) Centralized and memorized settings.
The Feeder

- Three interchangeable-polyurethane-covered feed rolls
- No pulling band, to avoid board crush,
- Independant brushless motor per roll,
- Vacuum set in accordance to every cardboard size,
- Very little sensitivity to warp,
- Feeder setting made from the supervision.
I/O Print unit
Hard steel and nickel coated plate and impression cylinders
Ceramic coated from Panarco for anilox roll

Independant top printing units

Carbon fiber Dr Chamber Blade from Absolute

Indicator wheels:
- Anilox touch,
- Impression cylinder adjustment
- Lateral plate cylinder,
- Optional centralized and memorized settings.

1. Excellent printing quality and register,
2. Inks saving and fast color change,
3. Reduced water consumption during washing cycles,
4. Easy adjustments
5. Optional IR and UV driers for coated sheets
The growth of the « e-commerce » highlighted the interest of printing both sides in a single pass. Same characteristics of the « Top » Print unit.
The Die-cutter

- Flat die-cutting,
- Horizontal movement forward and backward of a “die”, under the die-cutting cylinder of (1200mm diameter),
- Use of rack and pinion on each side to create this movement.
The Stripping Unit

Proved technology to evacuate 100% of the waste.
Blank delivery in pre-counted batches
To conclude

☑ Compact, simple, strong and modern machine,

☑ Printing and diecutting without trim, with excellent register,

☑ Re-use of existing dies from MIEHLE, MARK I and MARK II,

☑ Simplified design (compared to older generation of machines),

☑ Use of proved design and solutions,

☑ Use of electronics where and only where it does bring reliability and simplicity,

☑ Oversized frame elements. Simple and easily available components. The only one cast iron part is the die-cutting cylinder.

☑ Fast order change,

☑ Reliability.
Any question?