Multifunctional laboratory sheet-fed printing and coating machine

173
challenger

The challenger 173 is designed to explore various possibilities and combinations of printing and coating. It is the ideal laboratory instrument for testing gravure, flexographic, screen and functional inks as well as the printability of various flexible and rigid substrates.

Exchangeable printing/coating modules:

- **Slot die coating**
- **Flexographic**
- **Rotary screen**
- **Rotogravure**
- **Gravure offset**
- **Gravure printing with plate (same as labratester 180)**

173
challenger

Multifunctional, modular, expandable

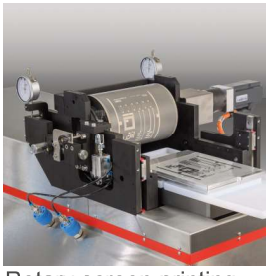
- For use in R&D and quality control applications in a wide range of industries
- Quick and easy exchange of printing/coating modules
- Printing/coating modules expandable at any time
- High-precision linear guides for precise movement of the substrate carriage
- Single and multilayer coating/printing both flexible and rigid substrates
- Low fluid volume per print <1ml is sufficient for a clear and reproducible print
- Easy to operate via colour touch screen
- Easy to clean and maintain
- Reproducible settings via dial gauges
- Customized printing forms / anilox rollers
- Optional: Vacuum chuck / heatable vacuum chuck

Technical data and performance

Substrate size	210 x 148 mm (DIN A5)
Printing size	130 x 120 mm
Coating size (slot die)	190 x 125 mm
Process speed	up to 30 m/min.
Dimension	l x w x h 1250x800x650 mm
Weight	150 kg
Electrical connection	1x230V, 2000W (US 110V)
Compressed air	6 bar

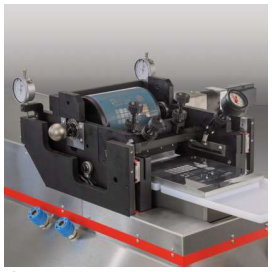

Slot die coating


Flexographic printing


Rotary screen printing


Rotogravure printing


Gravure offset printing


Gravure printing with plate (same as labratester 180)

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Swiss precision