

Prototype unveiled

The 1-TBR compact 740/1040 sheet-fed gravure press from German printing press manufacturer H.C. Moog introduces a new gravure printing machine concept to the industry. TJI has been privy to part of the development work.

The concept behind this multifaceted "all in one" machine is to deliver high-quality, economical short runs for a broad range of applications. According to Achim Kurreck, managing director at H.C. Moog, the versatility of the 1-TBR compact allows the development, testing and production of creative and exclusive packaging concepts on different substrates and in different finishes on a single machine. It could therefore prove an invaluable, cost-effective tool to tobacco marketing departments and their design studios, i.e. for mock-ups.



- Innovated Holographic & Plain Cigarette Pack (HLP & Soft Pack)
- Cigarette Tipping Paper Non Perforated / Perforated with Micro Laser & Hologram Stamping Foil
- Cigarette Tipping Base Paper
- Aluminium Paper/Board
- Metallized Paper/Board
- Hologram Paper/Board

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Photo: William McEwen

Mainframe of the 1-TBR compact prototype.

At the same time, the 1-TBR compact 740/1040 can be used for the economic printing of packaging for short runs, either as a stand-alone production unit, since multiple passes are possible, or the unit can be combined as an offline combination, up- or downstream, with another sheet-fed printing process. To give an idea of the potential of the printing press, here are some of the applications:

- ▶ Conventional gravure with solid gravure cylinders and, which is new, with digital printing plates
- ▶ Cover printing (especially gold, silver and pearlescent pigments), continuous tone print
- ▶ Full coverage lacquers, spot lacquer
- ▶ Refinement
- ▶ Full and partial embossing, micro-embossing and random grain patterns, with a new pressure cylinder for greater stability
- ▶ Full and partial coating applications
- ▶ High gloss applications with a new calendering cylinder and temperature regulation up to 150°C, with water-based varnish for "green printing"
- ▶ Print for striking surface, surface structure and haptic effects and new driers combining infrared and hot air for more efficiency
- ▶ Utilisation of alcohol- and water-based ink systems as well as UV lacquers
- ▶ Sheet size of 370 x 520 mm minimum and 740 x 1040 mm maximum
- ▶ Performance up to 10,000 sheets per hour.

The 1-TBR compact can print on paper and carton (coated, uncoated, laminated, etc) from 80 to 400 g/m² or from 120 to 600 g/m², as well as non-flexible foils and numerous other substrates, using conventional gravure cylinders and plate cylinders, Moog claims. Market introduction, with product demonstrations and customer trials at the company's R&D centre in Miehlen, Germany, is planned for the second quarter of 2010.

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