Dear Reader,

The world’s most modern cylinder production system with the Cellaxy output device was recently showcased at an open house event. Find out what makes Cellaxy so special and what else has happened at HELL in this latest issue of e-topics.

Sincerely,

Dr. Siegfried Beißwenger
Ulrich Knehans

HELL presents direct laser engraving of copper gravure cylinders with Cellaxy at an open house event

The first presentation of direct laser engraving for copper cylinders offered over 200 visitors an in-depth look at the world’s most modern cylinder production system at 4 Packaging at the end of June.

The centerpiece of direct laser engraving is the Cellaxy output device. The Cellaxy is fitted with a high-power multi-kilowatt laser with a resolution of 2540 dpi (1000 l/cm) that lasers cells directly into the copper surface. The electroplating process for producing the engraving cylinder surface remains unchanged. The laser is in continuous operation and is controlled with a 3D-Rip. The writing principle is thus similar to that of an offset platesetter, with each cell being formed from a matrix of 16 x 16 laser dots, for example. In contrast to offset, the laser can vary the intensity, and therefore the depth, of each individual laser dot. This enables the engraving screen to be freely adjusted in terms of screen resolution, dot shape, depth, and cell-to-wall ratio. In the future, this property will allow a printing form to be adapted to the specific printing conditions. As the Cellaxy always employs a write resolution of 2540 dpi, extremely high contour definition is produced. This makes the Cellaxy ideal for applications in the cigarette, labeling, and pharmaceuticals sectors. The Cellaxy is being used...
The Gravure Association of America (GAA) has awarded the Golden Cylinder Award to the HelioKlischograph K6. Managing Director Dr. Siegfried Beißwenger accepted the award at the GAA annual conference in Richmond, Virginia. Among other reasons, the award was presented for the increased productivity generated by the K6 in automated gravure form manufacture, a benefit now enjoyed to the full by the majority of printshops.

Bauer Logistik recently unveiled the unique compact INLINE cylinder store. The INLINE cylinder store is designed to be a fully automatic high-bay system, typically housing more than 100 cylinders. PLC controllers, sensors, and servo-drive technology ensure reliability and speed in daily use.

Visitors to the open house event at 4 Packaging at the end of June were able to take a closer look at the new INLINE cylinder store already integrated into fully automatic cylinder production with AutoCon.
HELL Gravure Systems and Hueck Folien unveiled PremiumFlexo at a joint open house event in Weiden at the end of May. The invitation to Weiden attracted over 90 visitors. At the time of the event, the beta installation had only been installed for four weeks. Despite this short period, several color sets of elastomer sleeves had been directly lasered and tested on various substrates under production conditions on an external UV flexographic press.

For Hueck Folien, which has been involved in innovative collaboration with HELL for 40 years, PremiumFlexo is a logical progression in using cutting-edge technologies for printing form manufacture. From the end of summer 2006 onwards, Hueck will be deploying the directly lasered PremiumSleeves to print on aluminum foil on a UV flexographic series press from BHS.

The open house event at Hueck Folien clearly demonstrated the suitability of direct laser engraving of continuous/seamless elastomer printing form sleeves and its benefits, which can scarcely be overestimated. This makes the process a serious alternative to established production processes in flexographic printing. With PremiumFlexo, HELL Gravure Systems has developed a complete concept geared to high-end flexographic printing. Consisting of the PremiumSleeve, PremiumRip, and PremiumSetter modules, with the high-resolution laser as its centerpiece, all the components are fully integrated with each other.
Milestones are always a cause for celebration and HELL saw three reasons for a small company party: Production of the 2000th HelioSprint engraving head, the 500th HelioKlischograph from the K500 family, and delivery of the 25th HelioKlischograph K6.

A series of milestones

The laser was the key theme for HELL at this year’s Converflex trade show in Milan. Both newly developed processes for high-resolution direct engraving of flexographic printing and gravure forms were showcased at the booth of the local representative ETS.

Hell Gravure Systems GmbH
Philipp-Reis-Weg 5
24148 Kiel / Germany
Tel.: + 49 (431) 23 77 - 0
Fax: + 49 (431) 23 77 - 12 35
www.hell-gravure-systems.com
info@hell-gravure.de

Horst Löscher unveils the PremiumFlexo process.

PremiumFlexo and Cellax at Converflex / Grafitalia

The laser was the key theme for HELL at this year’s Converflex trade show in Milan. Both newly developed processes for high-resolution direct engraving of flexographic printing and gravure forms were showcased at the booth of the local representative ETS.

e-topics – always up to speed.
The Hell Gravure Systems GmbH electronic customer magazine is published every 2-3 months in 7 languages and is sent to the company’s customers and friends as a PDF file. You can subscribe to e-topics free of charge at www.HELL-Gravure-Systems.com. Earlier editions are available in the e-topics archive on our website.