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SCIENCE AWARD FOR MULTI-BEAM LASER PROCESSING

Clear productivity increase in laser-based surface structuring

“Producing intricate structures with high productivity” was the aim of the interdisciplinary team from industry and research that was recently awarded the Science Prize of the Stifterverband for Collaborative Research at the annual conference of the Fraunhofer-Gesellschaft.

The team, consisting of Dr. Stephan Brüning (Schepers GmbH & Co. KG), Dr. Gerald Jenke (Saueressig Group), Dr. Keming Du (EdgeWave GmbH), Dr. Manfred Jarczyński (LIMO GmbH) and laser researchers from the Fraunhofer Institute for Laser Technology ILT, has developed a technology that can be used to split one laser beam into 16 partial beams that can be controlled in

parallel and separately. The solution has been integrated into a new machine system based on the Digilas from Schepers that now achieves much better machining quality and much higher speeds than all other conventional systems for roller structuring.

More details about the award-winning project, which is supported by the German Federal Ministry of Education and Research (BMBF), can be found here:

<https://lnkd.in/ep6euU9>



The official video about the project here



TACTILE EFFECTS AT THEIR VERY BEST WITH CELLAXY

The young company Gravion describes itself as a “digital factory” in the production of embossing rollers and is fully committed to using direct laser engraving in its manufacturing operations.



Tactile effects are playing an increasingly important role, not just in high-quality packaging (cardboard, aluminum, PET) but also for glass, paper, foil, plastic, decorative elements for furniture, floors and automotive interiors and in safety and security applications. When people feel textured surfaces in their hands, they know they are looking at an exclusive brand and will remember it for a long time.

Based in Rheinfelden, Germany, Gravion is a very popular partner for the manufacture of customized embossing forms to be used in a whole range of premium applications. This is all the more remarkable as the company was only founded in the summer of last year. However, the managing directors, as well as most of the 10-strong team, have many years of experience in the relevant industrial sectors and in embossing, coating and anilox roller technology.

To ensure it could meet the mostly very high requirements for 3D structures on embossing forms, Gravion invested in a Cellaxy C500 laser system from HELL Gravure Systems.

Read the full article here:

https://www.hell-gravure-systems.com/wp-content/uploads/sites/7/2020/10/FT_Gravion-e.pdf



Managing partner Dietmar Buchholz (right) with colleagues from his highly motivated team



THREE DECADES OF GRAVURE FORM MANUFACTURE

Informative specialist article looks at the history and future of the technologies used in gravure form manufacture.

Gravure printing combines high, reproducible print quality with excellent print run stability. The technologies used for gravure cylinder manufacture are mature, can be controlled precisely and are fully automated. This will lead to direct laser engraving becoming more important in the coming years.



How can 30 years of gravure form manufacture be summarized? And what does the future hold? The technologies used in gravure form manufacture are standardized and automated. When it comes to competing with other printing methods, the main aim driving development is to reduce unit costs. Direct laser engraving is becoming far more important in gravure printing and this trend is continuing to grow. In his comprehensive article, Ansgar Wessendorf provides a highly informative review of the technologies used in gravure form manufacture and an outlook for their future.

You can read the specialist article here:

https://www.hell-gravure-systems.com/wp-content/uploads/sites/7/2020/11/30_years_Gravure_forms.pdf



HUGE RESPONSE TO THE “INK SAVINGS USING LASER-ENGRAVED CYLINDERS” WEBINAR

Webinar to be repeated

The investigations Beilenhoff Consulting and partner companies carried out into “ink savings using laser-engraved cylinders” were recently presented in a webinar. Due to the very favorable response, the webinar is to be repeated.

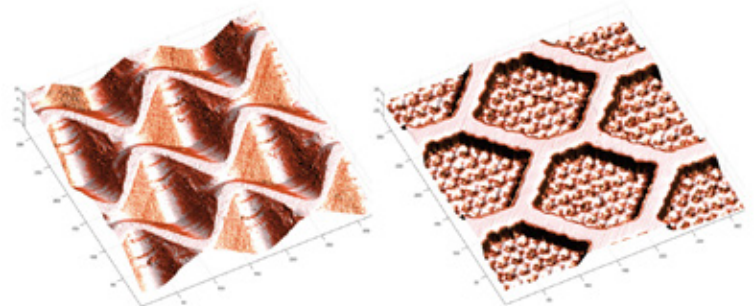
HELL Gravure Systems recently hosted a webinar on “ink savings using laser-engraved cylinders”. During the event, Stefan Beilenhoff from Beilenhoff Consulting presented test results achieved in partnership with printing press manufacturer Windmüller & Hölscher, ink manufacturer Siegwerk Druckfarben and service provider 4Packaging. The 90-minute seminar, held in English, was attended by more than 100 participants, mostly from Asia.

Due to the highly positive response, this free event is being repeated in the near future,

although a specific date has not yet been set. If you are interested in this event, please contact your HELL sales partner or send an e-mail to info@hell-gravure-systems.com, **Betreff: HELL-Webinar**

You can also click here to read the specialist article **“Ink savings using laser-engraved cylinders”** by Stefan Beilenhoff, which was originally published in the German-language magazine Flexo+Tiefdruck, 3-2020:

https://www.hell-gravure-systems.com/wp-content/uploads/sites/7/2020/10/FTD_0320_Cel-laxy_Ink_Saving.pdf



Images of cells engraved in copper under a microscope: Electromechanical engraving (left) and laser engraving

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