

Abstracts of Articles

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Dear Reader: Since a long time already it is a tradition that year by year, we publish a special edition containing the flexo novelties from printing form preparation to up-to-date drying systems, distillation methods, as well as give a comprehensive picture of technical development of our industry. Beside these, our professional articles give valuable information not only for the flexo experts but for everyone working in fields of printed information. You can also find in it edited versions of presentations and some different subjects. This is very important not only for those being present on the professional events, but for others, not taking part in person on them.

Since several decades Magyar Grafika is a professional knowledge base. We have developed it successfully. Since the last year on our website www.pny.me.hu everybody can enjoy our „audio news“ too when clicking onto the pictures of the speakers of the PNYME Printer Symposia. We know well, this does not substitute of the personal part taking.

In our present edition you can find and hear presentations of three former events.

In one of our regular columns called *Graphics in Magyar Grafika* you can get information about the young typographer graduates. It will be enjoyable for you to see the beautiful works of the talented youngsters.

The drupa 2008 is nearer and nearer therefore the members of our editorial staff give more and more selected *predrupa* information for the professional community.

Until then let us prepare together to drupa!

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Excerpts of flexo articles 2008: You'll find two different articles in our present special flexo edition: the *Flexo-Panorama 2008* (page: 36.), and the *FlexoRowser 2008* (page 5.). Both are comprehensive summaries of the past, present and future developments of the global and local, EU and Hungarian flexo industries, materials, technologies, production-, and quality control solutions, tools and machines of packaging printing with flexo etc. But their subjects are managed from different point of views. All started with a rapid technological and market development in a process named *Flexo – Boom* with a global 3.5% raise which has meant an over 98 billion €. The facts and figures, about the industrial trends of flexo printing, flexible packaging market situations, and the strategic forecasts from 2008 to 2012 are based on reports of world famous trend watching organizations.

In the articles mentioned above, you can read, for instance, about the following main goals and technology solutions for industrial and market development purposes as follows: Water based and the new latex inks, varnishes, and adhesives, water based inks for flexographic printing. Requirements for them;

- The flexo printing press of the future will be totally

digital: Advantages of digital solutions • Ink trapping in hybrid printing technology • Direct laser engraving of flexo printing plates and anilox rolls. • Flexo printing facilities streamline Pre-Press by switching to new High-Tech plate mounting. • The future of flexible packaging printing • Flexo vs Gravure printing • A clean look at anilox cleaning systems & preserving roll life. (Benchmarking of the different manual, mechanical and chemical methods) • Innovative newspaper printing with water-based flexo-inks • UV/EB drying methods for flexo • The end of silicon age because of appearance of printable microelectronic production methods: (RFID, OLED, e-Inks, and e-Paper products)

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The predictable quality of flexo prints: Main challenge of flexo printing – similarly to other printing processes –, is to get the acceptance of commercial partners the inevitable flexo technology-dependent print features. Perhaps for them, besides a good color rendering, it is much more important the identity of print and printing form with the contract proof. This is a question of suitable softwares. The author offers for that purpose the products of GMG

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Difficulties in 1% dot reproduction in flexo (a translation): Over the last couple of years in the Flexo Industry there has been a strong demand to get dots as small as possible. This has always been a topic of different discussions and opinions. This article is focusing on having and holding of 1% dots on conventional flexo printing plates and prints. What are the advantages and disadvantages of such a result?

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What are modern reeled-foil cutters like? *István Sári* gives concentrated answer to that question: they have to be productive, easily set up machines, and their speed must be around 300–500 meters/min. They have to smoothly and steadily serve the connected high-end flexo and gravure machines. There are now two different solutions for ink transport of raster rollers. Last year *Troyka Systems* has marketed for flexo purposes a practical and successful raster cell diameter measuring tool called *AniCam*.

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Up-to-date drying methods for flexo: In the foreign professional literature there are always lots of articles dealing with *Ultra Violet (UV)*, and *Electron Beam (EB)* curing of inks, varnishes, decorative coating materials and adhesives for drying (i.e. hardening!) purposes. The method is well known but in spite of this, the usage is not yet general. In this article you will learn, about the chemical, physical process, as well as about its health, safety and technological advantages/disadvantages.

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Automatic distillation systems: Proper handling and recycling of the dangerous volatile organic compounds (solutions) is a compulsion and an economic question at the same time. At our flexo symposia *Zoltán Petrényi* (Hoffmann Kft) has given a presentation about their practical handling. These materials in cleaning operations tend to make unwanted color changes through the contaminated machine components.

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The 10 year old *bauer+ bauer Hungaria Kft* is very open towards its partners in the printing industry. It started this year at January its flexo branch of business. The article contains a report made with *András Markos* head of commerce, and *Tibor Bártki* head of sales.

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PNYME forum on Quality (10th jubilee lectures, presentations): *Six Sigma* is not a wonder, but a useful tool for quality improvement and reduction of costs. This was the subject of a presentation during the visit of *Smurfit Kappa Sturovo a.s.* paper-, and packaging material factory.

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We – altogether 150 – have gathered again between 6–7 March on the traditional and always successful *Flexo Symposia* organized by PNYME. Besides professional presentations, we could visit two brand new industrial plant investments too.

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Varga Flexo Kft. is producing wide range of flexo printing machines, laminators and reel-cutters. It provides to them the necessary maintenance too. A printing machine having Central Impression Cylinder (CI) is conditional for the HiQ printing.

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Esko-Artwork at drupa 2008: The conception of *Connect More* is a key factor of the future business development! Constant success of Artwork's products, have been that they are always parts of a system. This provides to users an automatic, almost mistake less, and result full, high quality work. Its partners are for instance *Adobe, Bobst, DuPont, Gallus, HP, MAN Roland, Xerox* etc.

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Recognition and elimination of printing problems: Today it is well known, that the quality of some demanding prints are influenced, sometimes destroyed by unsuitably hard adhesive tapes, by generating vibration during the printing process. The author of this article is dealing with this problem detailedly.

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The base of environmental control of packaging is the governing principle (94/62/EK) of European Union. This article gives a comprehensive summary of the official instructions.

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Increased efficiency for preparation of printing of packaging materials can only be well solved by using high level automated solutions. Survival in a competing world can only be reached by having professional production systems instead of pottering. To that, you have to have special softwares, and automated workflow systems. You find many of them on the markets, but for the professional preparation of printing for packaging materials, just *Nexus*, and the *EskoArtwork* offer suitable solutions.

The author gives a detailed summary about their following products: *NexusImport, NexusProcessor, NexuxManager, NexusRip, DotSpy, Symphony, NeXML, Paragon Screening*, and *Hybrid Screening*.

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Plasmatreat the German manufacturer has developed an *Openair plasma technology* for surface treatment for car industry for joining together synthetic materials. The advantages of its use are numerous on plastic packaging, as well as on varnished, laminated, or metal covered paperboards.

The purpose of the treatment is to modify the surface tension of materials mentioned. From now on this company and the technology is represented by the *Bobst Group*.

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In *Ponton Gallery*, sixteen graduates of a high grade course of university named *Moholy-Nagy* for training future typographers, have exhibited their works –which were made during the last half school year. You can find and enjoy them from page 76.

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In former edition of our paper you could read an article entitled *The Leadership*. It was written by *Endre Fábíán*. The subject of it was: how to organize a good team. Now you can have the 2nd part of it, which tells you, how such a team can work.

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On 1st March this year, in *La Hulpe*, there was an inauguration of headquarters and a *pre-drupa event* of Kodak. Its new basis being in a beautiful environment, they will represent the European and African regions. It has six showrooms, and six training rooms as well as logistic and organization offices. About coming drupa, Mr *Bjorn Weststrom* has shown, *what Kodak has cooked for the future*.

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On a new way with a new owner: *Zrínyi* printing house earlier under an other name, is existing since 1858, and now is a part of a foreign financial investor called *EDS*. The "new leader", as a general manager of it, is *Ádám Balogh*.

He started his skilled worker study and later the work in *Zrínyi* printing house many decades ago. We wish him and *Zrínyi* a successful future!