

Cutting 4.0 for the networked print shop

Hall 14/A32 – With Cutting 4.0, BaumannWohlenberg will present crucial solutions for the future networked print shop. In most cases, the area of cutting is heterogeneous: any job structure you can think of can be found there. All companies that are active in the post print field have the following problems in common: A (partly) high cost pressure, with pretty narrow margins and shrinking job sizes in conjunction with very short delivery times.

The result is mostly that several jobs must be combined on one printed sheet. Only customers who manage these challenges by rationalizing the production process have a chance to survive in the market. With the new solutions combined under "Cutting 4.0", BaumannWohlenberg primarily addresses all customers who handle a large cutting volume with a cutting time per ream of more than 5 minutes – most of them with a large number of jobs with medium and short runs. The "Cutting 4.0" process is composed of several single processes.

Ream feeding 4.0 and Job management 4.0: The underlying idea is simple. A jogging system supplies two or more cutting machines with pre-jogged reams. That's nothing new; in view of the fact that this was done in the past with the assistance of a central jogging station. What's new is that the automatic jogging unit

is directly connected with the two high-speed cutters via a logistics line and a sorting rack which carries out the job management. As a result, transportation and storage of the pre-jogged reams in the company are no longer necessary.

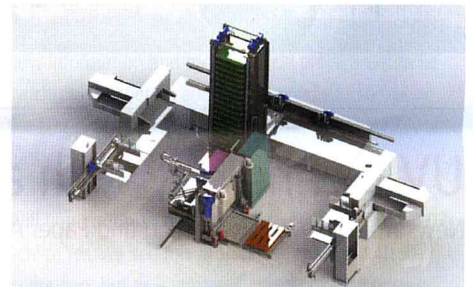
Production flow 4.0 comprising 3 steps: The first one is jogging. The pile with the printed sheets is put down on a buffer before the fully automated jogging station BASA. The reams are destacked, jogged to lay flat, the air still present between the sheets is smoothed out and finally the ream is transferred to the sorting rack BMR. The second step is job management. The jogged reams are buffered in the sorting rack. Since the sorting rack is automatically loaded from one side and unloaded from the other side, these two processes do not obstruct each other. The reams buffered in the sorting rack are distributed to the two cutting machines. For that, the operator of the cutting machine requests the job concerned. The next ream is then available immediately as soon as the last ream of the present job has been cut. There are no waiting times.

Step 3 is cutting. Once the job has been selected, the operator takes the job data from the barcode printed on the sheet and uses them as a basis in order to generate his cutting programme.

A special advantage of this process: The automated ream administration functions with every cutting machine, even those of the highest level.

Finally, with Service 4.0, the BaumannWohlenberg cutting systems and peripheral equipment of the latest generation are not only able to programme and monitor themselves for the specific job, but can also indicate preventive maintenance intervals or activate the required remote services as soon as necessity arises.

Baumann Maschinenbau Solms GmbH & Co. KG



Cutting 4.0 – innovative solutions for the networked print shop of the future

Sophisticated packaging – a convincing image

Hall 3/A35 – Printing, embossing and finishing in one machine? Is that possible? Visitors to the drupa can see that on the new TBR-compact from H.C. MOOG. It can perform all three processes in highest perfection and can be smoothly integrated in the process chains of modern packaging printing companies.

Whether cosmetics, spirits or tobacco, whether premium food or pralinés – the customers increasingly make their purchasing decision because of the packaging. Sophisticated look, the clever combination of glossy, matt or embossed surfaces, appealing design with soft colour gradients or striking, fresh colour tones determine the image of a brand and ensure that it stands out in the competition. The more mature and regulated the market, the more important is the persuasive packaging: if it evokes positive emotions, the customer spontaneously takes the product. The purchasing deci-

sion is influenced by what's pleasing to the eye.

The multi-functional TBR-compact printing, embossing and finishing machine from Moog produces complex packaging designs in highest precision with ease. At the same time, its "all-in-one" concept is a guarantee of high economic efficiency and vast freedom of design that it supports by enabling manifold combinations with related printing methods. The TBR-compact is not only strong as a stand-alone-machine, but also when combined with different sheetfed printing methods. It's possible to use both, the commonly used gravure printing cylinder and the laser-exposed photopolymer plates on clamping cylinders – for large format sizes and small format sizes, because the consistent size of the cylinder enables to adjust this all-rounder to any specific job fast and flexibly. Thanks to its adaptability, this multi-functional printing press can be fully

integrated into the process world of modern packaging printing and ensures high capacity utilisation. Not to forget the exceptional reliability and long service life of the MOOG machines that have convinced leading brand manufacturers for decades. Products stand out at the point of sale from the mass of others through fine appliqué, attractive colour designs and fascinating haptics. Fancy packages make the customer buy a product spontaneously, which opens up the possibility that spontaneous buyers become regular customers. Economic, reliable and highly flexible printing and finishing technology is the basis that gives the package a shining appearance as an image carrier. The TBR-compact can be operated with conventional gravure printing inks, but also flexographic water-based inks and, last, but not least, UV inks and coatings. The respective dryer modules are integrat-