

PRESS RELEASE

Product

More efficiency in packaging: KHS enables film reel changeovers without machine stops

- No reduction in the production speed
- Buffer bridges time at reel end
- Retrofits on existing lines possible

Dortmund/Duesseldorf, May 4th, 2017 – Film reel changeovers without machine stops: thanks to the newly developed film storage facility from the Advanced series KHS now enables automatic changeovers from one reel to the next on its packaging machinery. It is thus no longer necessary to stop the machine or throttle the production speed. Inspiration for the system has been taken from the automatic reel changers used in the printing industry, for instance.

“In applying this principle production isn’t interrupted. It thus goes without saying that this boosts efficiency,” says Karl-Heinz Klumpe, product manager for Packaging at KHS. With a machine stop of up to 21 seconds per reel change up to 1.2% more capacity can be achieved per year in two-shift operation. This new level of efficiency is brought about by a built-in buffer; once the current reel of film has been unraveled to a certain minimum, the storage facility is automatically filled parallel to production.

The switch is triggered by a sensor which scans the diameter of the active film reel and recognizes when a change of reel is imminent. Once the store has been filled and the active reel reduced to the absolute minimum,

with clear film the drive stops directly and not at a defined position. With printed film it stops right at the eye mark. “After switching over to the film store, the usual film splicing process begins,” explains Klumpe. This joins the reel which was previously active to the new one.

More cooling time for the splicing seam

Thanks to the size of the storage facility and the very short time needed for film splicing there is enough cooling time, thus creating a stable splicing seam. This function can also be retrofitted on existing systems to process shrink film. Adaptations to the machine control system and, depending on the machine version, mechanical and/or electrical conversions are required for operation. There is no need for special electronic components or a separate controller.

For more information go to:

<https://www.khs.com/en/media/press-articles/press-releases/>

Click on the following link to download a high-resolution image for this press release:

<http://pressefotos.sputnik-agentur.de/#/album/e7c05o/photo/45893612>

Picture captions for the press release
(Picture source: KHS Group)

Production without interruption: the film storage facility from the Advanced series enables film reel changes ‘on the fly’.

The buffer is filled automatically. Sensors issue a signal when the machine must switch from the active film reel to the store.

About the KHS Group

The KHS Group is one of the leading manufacturers of filling and packaging systems for the beverage, food and non-food industries. The KHS Group includes the following companies, among others: KHS GmbH, KHS Corpoplast GmbH, KHS Plasmax GmbH and NMP Systems GmbH. KHS GmbH manufactures modern filling and packaging systems at its headquarters in Dortmund, Germany, and in Kleve, Bad Kreuznach and Worms. The KHS Group's PET expertise is pooled at KHS Corpoplast and KHS Plasmax in Hamburg, Germany, where light PET packaging and innovative coating systems are developed and produced. NMP Systems GmbH, a wholly-owned subsidiary of KHS GmbH based in Düsseldorf in Germany, designs and markets new, resource-saving packaging systems for PET bottles.

The Group has an international production and service network. In 2015 KHS was awarded the Top 100 seal of approval for exceptional innovative power and outstanding innovative success among German SMEs. In 2015 the KHS Group and its 4,871 employees achieved a turnover of around €1.17 billion within the Salzgitter consolidation. The companies in the KHS Group are 100% subsidiaries of the MDAX-listed Salzgitter AG corporation.

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