



Sheet stacker



Reel Sheeter



Inspection- and Individualization-Systems

## High-speed Sheet Feeder

High register precision at maximum speed



Sheet Transportation Technology from MABEG. It simply works.

## What makes a sheet feeder a MABEG sheet feeder?

- Its dependability
- Its precision
- Its reliable sheet separation
- Its longevity
- Guaranteed spare part supply for decades
- Permanent innovations
- Its core element: **the MABEG suction head**  
**and new: MABEG NewTec**

Dependable function of a sheet feeder during daily use is ensured mainly thanks to reliable control of the core process, namely the separation of sheets, and to powerful and robust electrical and mechanical components.

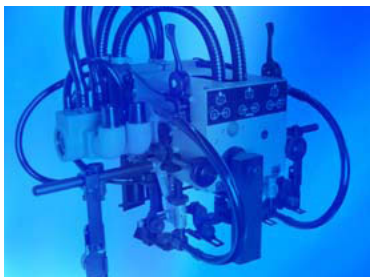
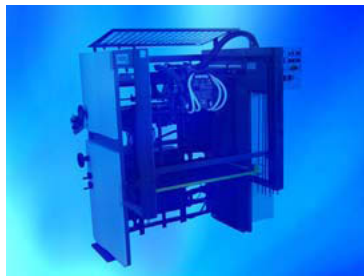
MABEG has been the technology leader in both of these areas for more than 65 years. More than 100,000 MABEG sheet feeders sold world-wide confirm this statement. We are proud of this tradition and still today supply cutting-edge sheet feeders of proven quality and dependability for a wide

range of applications and sheet materials:

- Paper
- Cardboard
- Security and banknote paper
- Sheet metal
- Veneer sheets
- Plates and sheets made of the most varied materials, e.g. laminate and cellulose plates

During this long-term success story a great many innovations – which are state of the art today – have been invented and introduced by MABEG, such as the electro-mechanical double sheet detector or the NONSTOP device. We will continue this tradition of pioneering into new fields and pride ourselves a little today on being able to offer with **MABEG NewTec** a new sheet separation technology in our original MABEG sheet feeders, in addition to the classic suction head.

More than 100.000 MABEG Sheet feeders worldwide.



# The MABEG sheet feeder family

Each MABEG sheet feeder forms an individual solution to specific customer needs. A detailed requirement profile is found with the help of a questionnaire, and the sheet feeder is composed to the actual customer needs.

Well-known OEM customers and end customers, e.g. those who wish our equipment to be retrofitted to their machines, can e.g. choose freely from these drive concepts:

- Direct drive with internal sheet feeder controller
- Hook-up to a bus system
- Direct drive with external controller
- Drive via toothed belt, chain or cardan shaft from the main machine

Other features and options include:

- NONSTOP device
- Feed board for sheet transfer
- Lateral sheet alignment (e.g. side lay)
- Double sheet detector
- Double pile processing
- Pre-loading device

Of course, fully automated versions are also available:

- Automatic size setting
- Motorized lateral pile carrying plate adjustment.  
This makes it possible to process inclined piles automatically
- Front edge or rear edge control
- Motorized automatic height adjustment of the suction head



- For all sizes
- For all kinds of substrates
- For all processes
- Configured and assembled individually:  
according to the requirements up to  
the highest level of automation
- 18,000 sheets/hour and more

# MABEG Classic Feed – well proven suction head technology

Depending on the desired application, the MABEG Classic Feed suction head is configured to your needs. Adjustable parameters range from speed, size and grammage to technologically important details such as suction nozzle travel distance and lifting height.

The drive system can be chosen freely as well:

- Direct drive
- Cardan shaft from a central sheet feeder motor

Low pressure is generated by a vacuum pump or with the help of an ejector.

Specially developed cam discs used for process timing form a central element. These discs are manufactured after laborious simulation and calculation and are only approved after long-term testing on our test benches. The same also applies to another key part, the rotary air valve. In addition to a precisely machined geometry, the material and surface finish are key factors to longevity and reliability. These features which make MABEG suction heads unique cannot be copied easily, in fact, they can only be realised at this quality when Made in Germany.

Proven MABEG Classic Feed suction heads are the right choice for hard work in the industry: they are flexible and efficient.



- Composed to customer-specific requirements
- Extremely wide range of applications: paper, cardboard, sheet metal, other materials
- Highest precision and longevity thanks to advanced engineering
- Up to 18,000 sheets/hour



# MABEG NewTec – improved performance at reduced energy consumption

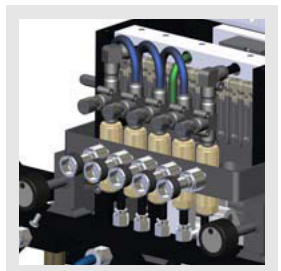
MABEG NewTec suction heads are the result of consistent progress and cutting-edge automation technology. Based on the patented KAjector technology from company Kasprich, a suction head generation has been exclusively developed which boasts improved performance at reduced energy consumption.

The MABEG NewTec suction head family comes without the entire rotary air valve and air control. This makes most of the air hoses superfluous as well. Vacuum and compressed air is generated directly inside the suction head during each process step by means of specially designed and controlled KAjector nozzles.

These ejector nozzles are controlled individually through an intelligent micro-controller, so that energy will only be consumed if vacuum and compressed air is actually needed. The integrated control software permits the switching cycles to be programmed almost without limitations. The timing can so be adapted freely to the process and actual machine speed. Highest running smoothness and perfect sheet arrival are thus achieved through the entire speed range.

This does not only make the MABEG NewTec suction head family 50 % more energy-efficient and substantially reduces wear compared with the classic suction heads, but it also opens horizons for further performance improvements and even more precise sheet feeding.

We thank the BMWi for supporting this joint development via  
Zentrale Innovationsprogramm Mittelstand (ZIM)



- freely programmable timing
- extremely smooth running
- low energy consumption
- noticeably reduced noise emission
- 18,000 sheets/hour and more

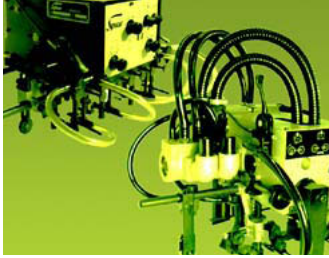
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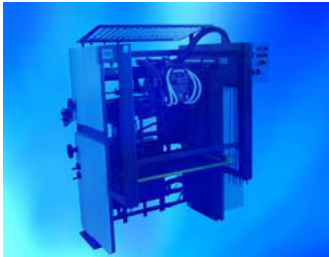


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High register precision at maximum speed



Worldwide service for all **mabeg** and *Spies* products.



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