



PERFORMANCE KITS

HIGHER SPEED
MORE SUSTAINABILITY
LESS MAINTENANCE

PERFECT combination of **COMPETENCE** and TECHNOLOGY

OPTIMISE PERFORMANCE – INCREASE ENERGY EFFICIENCY – REDUCE MAINTENANCE

“Modernise your systems in a sustainable, economical and future-oriented way with our PERFORMANCE KITS. With them, you set ecological and economic standards in modern packaging operation.”

Wilhelm Doyen, Service Consultant PERFORMANCE KITS

Dear Customers,

Your existing FFS systems are performing well, but they are no longer state of the art? The investment in a new machine is not yet justified? With our PERFORMANCE KITS, you can modernise your machines on a small or large scale. We offer comprehensive solutions for all FFS systems, regardless of whether they were originally supplied from HAVER & BOECKER or from WINDMÖLLER & HÖLSCHER.

Your advantages

- Higher efficiency due to modern technology
- Replacement for discontinued modules
- Preservation of quality through use of original parts
- Low investment costs, high profitability
- Reduced downtimes by taking over and retaining the existing machine structure
- Reduction of operating and maintenance costs
- Increase in machine availability
- Optimised performance
- Reduced training costs
- Sustainability through longer lifetime
- Reduction of noise level
- Less maintenance due to maintenance-free motors
- **And in particular: high spare parts availability**

Our PERFORMANCE KITS described in this brochure are available for the following AVENTUS machine types:

- | | | |
|-------------|------------|-----------------|
| • FFS Alpha | • Topas 2 | • weighing unit |
| • FFS Beta | • Topas 3 | • GWH/EGF |
| • FFS Gamma | • Topas SL | |
| • FFS Delta | • Diamant | |

Please contact us. We will quickly arrange a consultation with you. Together we will analyse your needs, and our specialists will work out a proposal for your specific retrofitting. In close cooperation with you, we will develop the optimum solution for you up to final commissioning and training of your personnel.



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Drive technology HAVER & BOECKER



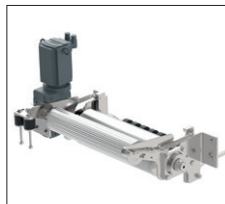
Bag transport using SEW Servo drive*

NEW: drive motor, improved positioning of bag transport

YOUR BENEFITS:

- no brake wear
- less maintenance
- more exact bag handling
- full functionality at high ambient temperatures

Available for:
FFS Beta
FFS Gamma
FFS Delta



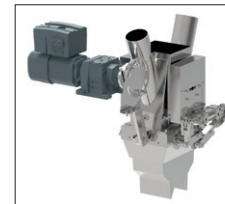
Film unwinding SEW Servo drive

NEW: drive motor, higher speed

YOUR BENEFITS:

- no brake wear
- less maintenance
- better print-mark positioning

Available for:
FFS Alpha
FFS Beta
FFS Gamma
FFS Delta



Filling spout SEW Servo drive*

NEW: drive motor, improved filling spout positioning

YOUR BENEFITS:

- no brake wear
- less maintenance
- full functionality at high ambient temperatures

Available for:
FFS Beta
FFS Gamma
FFS Delta



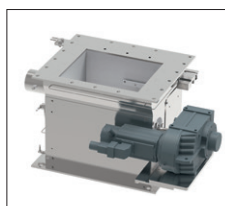
Vibration unit SEW Servo* drive and imbalance motors

NEW: imbalance drive instead of magnetic drive, drive motor

YOUR BENEFITS:

- no brake wear
- less maintenance
- full functionality at high ambient temperatures

Available for:
FFS Beta
FFS Gamma
FFS Delta



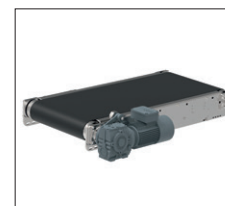
Dosing unit SEW Servo drive

NEW: drive motor

YOUR BENEFITS:

- no brake wear
- less maintenance
- higher weight accuracy
- higher dynamic
- maximum speed

Available for:
FFS Beta
FFS Gamma
FFS Delta



Discharge belt SEW Movimot drive

NEW: drive motor

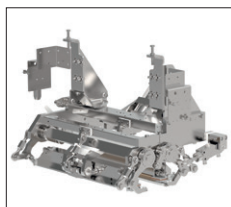
YOUR BENEFITS:

- no brake wear
- less maintenance
- more exact positioning for bag transport

Available for:
FFS Beta
FFS Gamma
FFS Delta

* A PERFORMANCE KIT including a Movimot drive is available for machine outputs of up to 1,800 bags/h.

Bag making HAVER & BOECKER



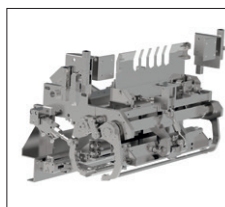
Top seam welding

NEW: self-centering welding clamps, optimised heating bands, Teflon coil

YOUR BENEFITS:

- less wear due to new Teflon cassette
- less maintenance

Available for:
FFS Alpha
FFS Beta
FFS Gamma
FFS Delta



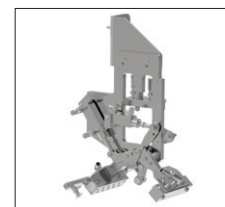
Bottom seam welding

NEW: film guiding, cutting knife, self-centering welding clamps, optimised heating bands

YOUR BENEFITS:

- less wear due to new Teflon cassette
- no bag jamming from film guiding
- less maintenance

Available for:
FFS Alpha
FFS Beta
FFS Gamma
FFS Delta



Opening fixture

NEW: Suction tube made of plastic, free of wear, swivel movement, reliable sensing through intelligent vacuum checking

YOUR BENEFITS:

- possible processing of 100-µm films

Available for:
FFS Beta
FFS Gamma
FFS Delta



Dancer rollers

NEW: pneumatic design

YOUR BENEFITS:

- constant film tension
- tension optimally adjustable
- more precise film guiding

Available for:
FFS Beta
FFS Gamma
FFS Delta



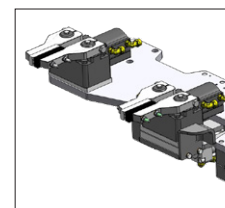
Gripper slides

NEW: low-wear grippers, secure holding, optimised push flaps

YOUR BENEFITS:

- gripper adjustment no longer necessary
- reduced maintenance

Available for:
FFS Beta
FFS Gamma
FFS Delta



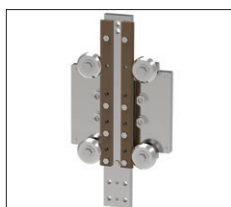
Gripper

NEW: low-wear empty bag gripper, full bag gripper and spreader tong

YOUR BENEFITS:

- longer lifetime

Available for:
FFS Beta
FFS Gamma
FFS Delta



Spout lifting

NEW: treated rails, rollers

YOUR BENEFITS:

- highly reduced wear
- less maintenance

Available for:
FFS Beta
FFS Gamma
FFS Delta

Control and operation HAVER & BOECKER



Touchpanel TP57, TP104

NEW: touch-operation, colour display

YOUR BENEFITS:

- remote control possible
- large display
- graphic display

Available for:
FFS Alpha
FFS Beta
FFS Gamma
FFS Delta
GWH / EGF



Weigher control system MEC 4.0

NEW: easy to understand weigher control

YOUR BENEFITS:

- faster processing
- better control
- easier operation

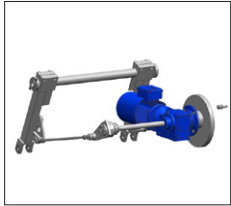
Available for:
FFS Alpha
FFS Beta
FFS Gamma
FFS Delta
GWH / EGF

Always up to date with our
PERFORMANCE KITS:

Give your system a freshening up with
the help of our PERFORMANCE KITS.



Drive technology WINDMÖLLER & HÖLSCHER



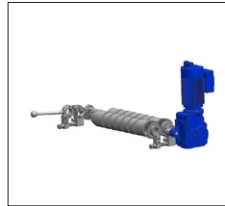
Main drive SEW Servo^{*/**}

NEW: drive motor, improved positioning of the tong wheels

YOUR BENEFITS:

- no brake wear
- less maintenance
- more exact bag handling
- full functionality at high ambient temperatures

Available for:
Diamant
Topas 3



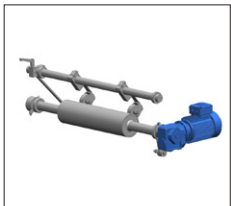
Intermittent draw drive SEW Servo^{**}

NEW: drive motor, bag length counter no longer required, improved positioning for corner sealing and print mark detection

YOUR BENEFITS:

- no brake wear
- less maintenance
- more exact bag handling
- full functionality at high ambient temperatures

Available for:
Diamant
Topas 2
Topas 3



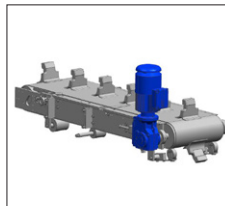
Continuous draw drive SEW Movimot

NEW: drive motor

YOUR BENEFITS:

- no brake wear
- less maintenance
- more exact bag handling
- full functionality at high ambient temperatures

Available for:
Diamant
Topas 3



Outfeed conveyor SEW Servo

NEW: drive motor, improved positioning of the belt

YOUR BENEFITS:

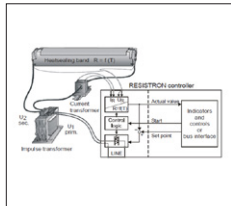
- no brake wear
- less maintenance
- more exact bag handling
- full functionality at high ambient temperatures

Available for:
Diamant
Topas 2
Topas 3

* A PERFORMANCE KIT including a Movimot drive is available for machine outputs of up to 800 bags/h.

** Illustration from Topas 3

Bag making WINDMÖLLER & HÖLSCHER



Top and bottom seam welding with parallel switching with Profibus interface

NEW: optimised operation and visualisation via touch panel, consistent temperature controlling

Available for:
Diamant
Topas 2

YOUR BENEFITS:

- less maintenance
- short circuits are avoided
- less wear of Teflon and impulse welding strips
- longer lifetime
- improved welding quality



State of the art corner welding with Profibus interface

NEW: optimised operation and visualisation via touchpanel, control through S7, regulator components are not required

Available for:
Diamant
Topas 2

YOUR BENEFITS:

- improved fault analysis



NAMUR technology with Profibus interface

NEW: integrated error visualisation via touchpanel

YOUR BENEFITS:

- improved fault analysis



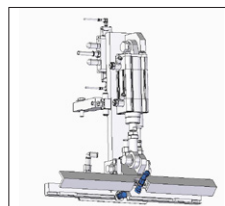
Electro-hydraulically height adjustable unwind unit

NEW: electro-hydraulic pump, hose rupture detection

Available for:
Diamant
Topas 2

YOUR BENEFITS:

- high security
- height adjustment by switch



Pre-opening station

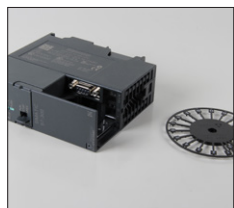
NEW: continuous and immediate opening of the bags, designed for hard to open FFS films

Available for:
Topas 3
Topas SL

YOUR BENEFITS:

- continuous high performance of the bag opening
- less waste of FFS film
- no empty bags during production

Control and operation WINDMÖLLER & HÖLSCHER



Siemens Simatic S7 control

NEW: bag length counter of the intermittent draw drive no longer required, possible connection of servo drive retrofits by using Profibus interface

YOUR BENEFITS:

- control and visualisation via touchpanel

Available for:
Diamant
Topas 2



Touchpanel TP 700, TP 1200

NEW: touch-operation, colour display

YOUR BENEFITS:

- remote control possible
- large graphic display

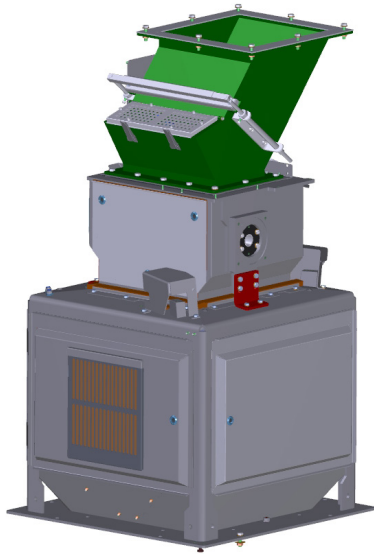
Available for:
Diamant
Topas 2
Topas 3

Always up to date with our
PERFORMANCE KITS:

So you can benefit from innovations and
improvements with proven functionality.



Weighing and filling technology WINDMÖLLER & HÖLSCHER



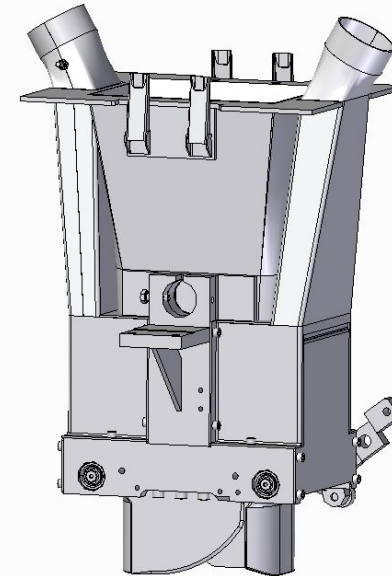
Available for:
Diamant
Topas 2
Topas 3

Net weigher

NEW: state of the art SEW servo technology, stainless steel design, weighing technology Siwarex

YOUR BENEFITS:

- operation via touch panel
- mechanical compatibility with old weigher



Available for:
Diamant
Topas 2
Topas 3
Topas SL

Divisible filling hopper

NEW: filling hopper in divided design with removable flaps, screw connection with dowel pins instead of welding

YOUR BENEFITS:

- reduction of working hours for maintenance and service
- short downtimes
- increased work safety
- cost savings for the future



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