



# STAY IN THE LEAD

with BEHN + BATES retrofits

PROCESSING STORAGE MIXING FILLING PACKING PALLETIZING LOADING AUTOMATION



A HAVER & BOECKER Company



That's how you will stay better.

---



One moment of inattention and tulips let their heads hang down.  
A little water would have helped here.

Look just as carefully at your packing systems!  
For which of the discontinued components do you have no replacement?  
Which components are no longer state of the art?

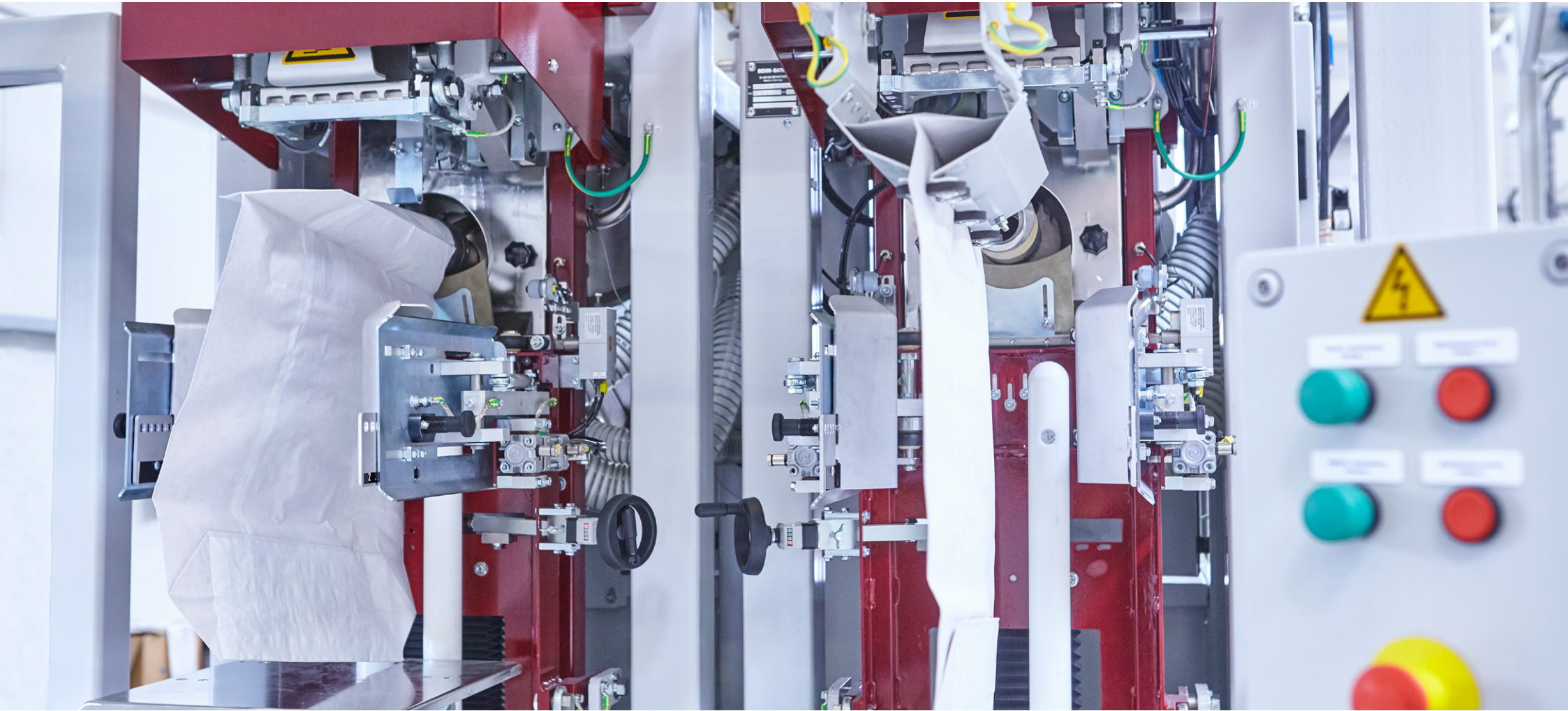
Together we will take care of your critical components and ensure  
your machine availability.

This way you stay better!

**Small effort -  
big effect.**



## Maintenance unit/s





## Conversion set

- Comes with new maintenance units
- Complete with adapter and fastening materials
- Updated / additional technical documentation

## Upgrades

- No longer and obsolete maintenance units will be replaced by our current updated design



## Your benefits

- Availability of spare parts
- Prevention of downtimes

## Remote service



## Conversion set

- Conversion to make use of remote service
- Complete with router and cabling for connection to the machine control
- Additional / updated technical documentation

## Upgrades

- Enabling remote access for the machine controls to allow remote diagnosis / troubleshooting

## Usage

The usage of the remote service is regulated by a separate contract. A SIM card must be inserted in the router for the LTE connection. This SIM card must be provided by the customer. To configure the router, BEHN + BATES must be informed of the network operator and the PIN of the SIM card.



## Your benefits

- Fast response times
- Cost savings in ordering a service technician
- Access to updated software



## Closing device



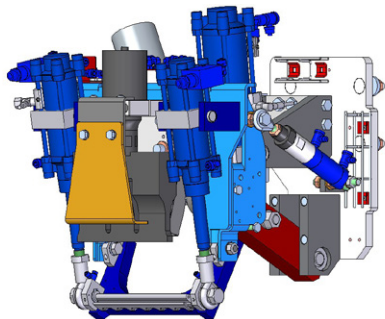


## Conversion set

- Conversion of the sealing device to enable a double seam sealing
- Complete with adjusting device for the second welding, connection and fastening materials
- Additional / updated technical documentation

## Improvement

- Improvement of the tightness of the bag valve through an offset, second weld



## Your benefits

- Improved tightness of the bag valve
- Improved stability of the weld seam

## Hoisting device for FRONTLINE bag applicator





### Conversion set

- Conversion of the hoisting device from the obsolete, no longer available linear cylinder to a new HAVER & BOECKER linear cylinder
- Complete with adapter and fastening materials
- Addition of the technical documentation

### Improvement

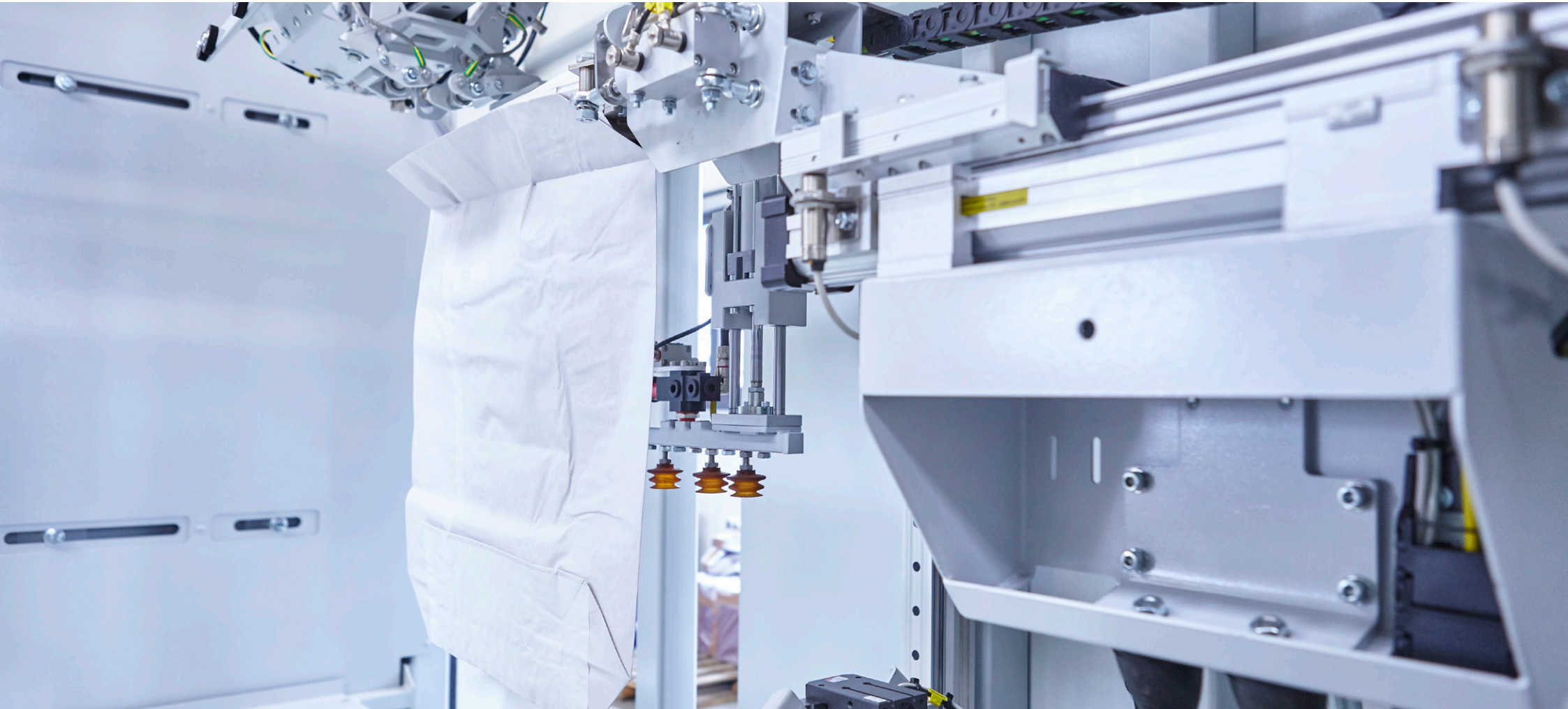
- No longer available linear cylinders will be replaced according to our current design

### Your benefits

- Ensuring the availability of spare parts
- Prevention of downtimes



## Conversion of the valve opener of the FRONTLINE bag applicator





### Conversion set

- Conversion of the valve opener, no longer available linear cylinder to a new HAVER & BOECKER linear cylinder
- Complete with adapter and fastening materials
- Addition of the technical documentation

### Improvement

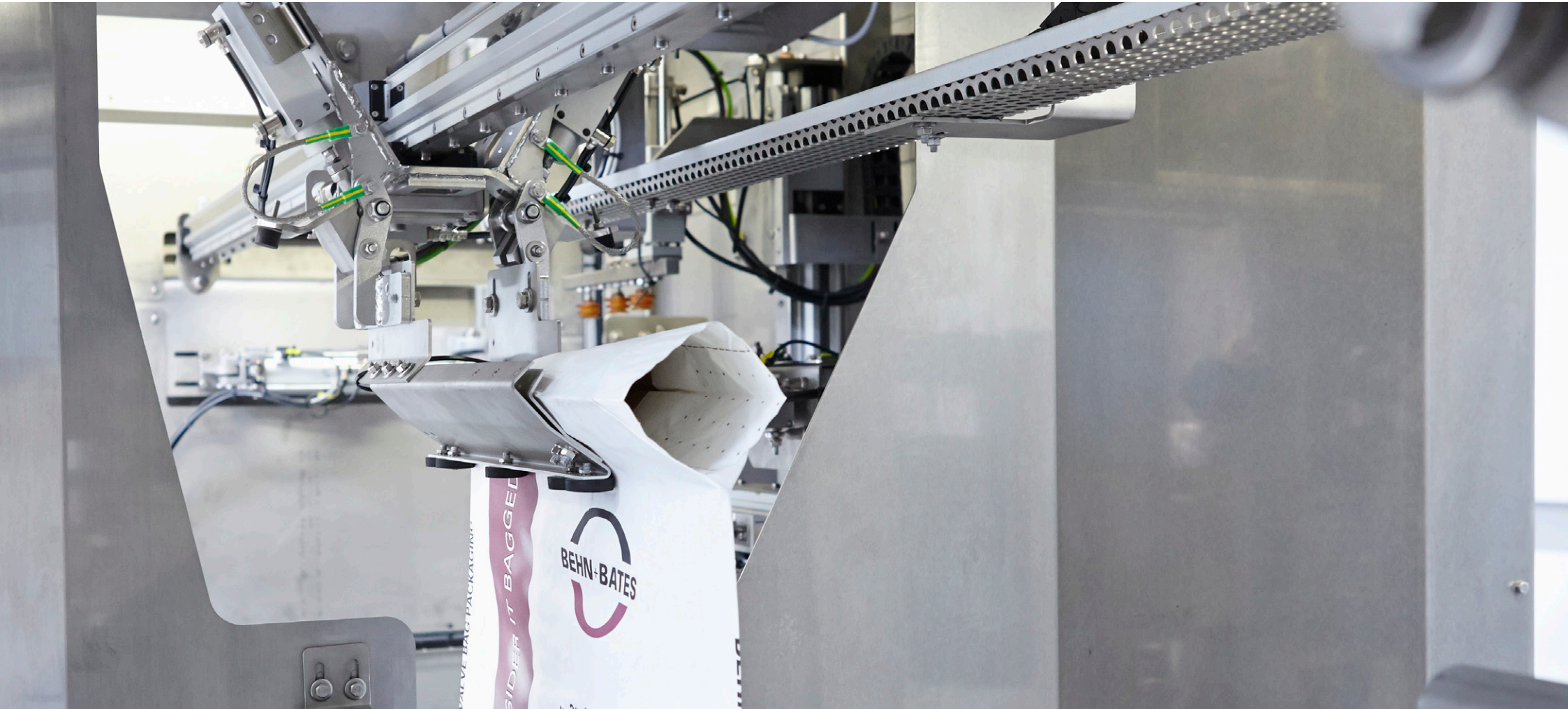
- No longer available linear cylinders will be replaced according to our current design



### Your benefits

- Ensuring the availability of spare parts
- Prevention of downtimes

## Conversion of the bag placer arm of the FRONTLINE bag applicator



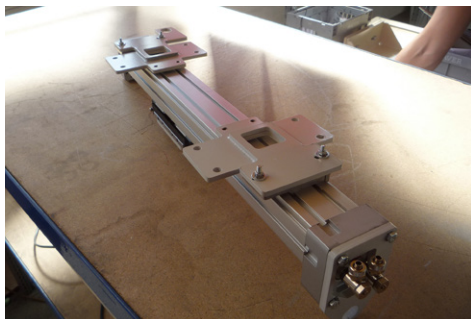


## Conversion set

- Conversion of the placer arm from the obsolete, no longer available linear cylinder to a new HAVER & BOECKER linear cylinder
- Complete with adapter and fastening materials
- Addition of the technical documentation

## Improvement

- No longer available linear cylinders will be replaced according to our current design



## Your benefits

- Ensuring the availability of spare parts
- Prevention of downtimes

## Servo drive conversion of the FRONTLINE bag applicator





## Conversion set

- Replacement of the obsolete servo drive, which is no longer available, with our current state-of-the-art technology from SEW
- Complete with servo drive, motor, brake resistor
- Hard- and software changes
- Addition of the technical documentation

## Improvement

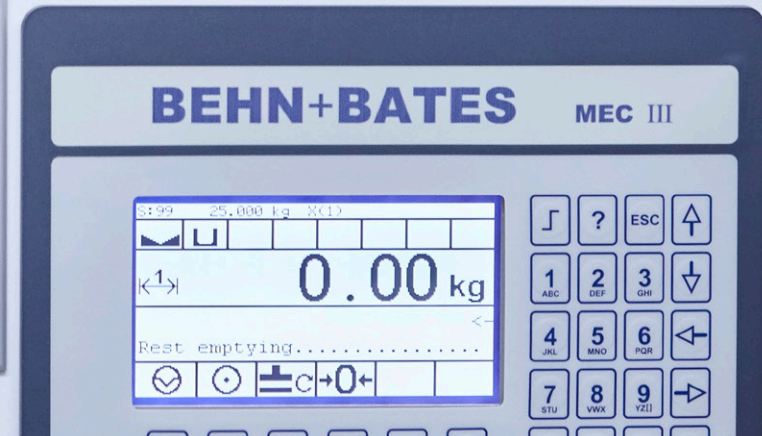
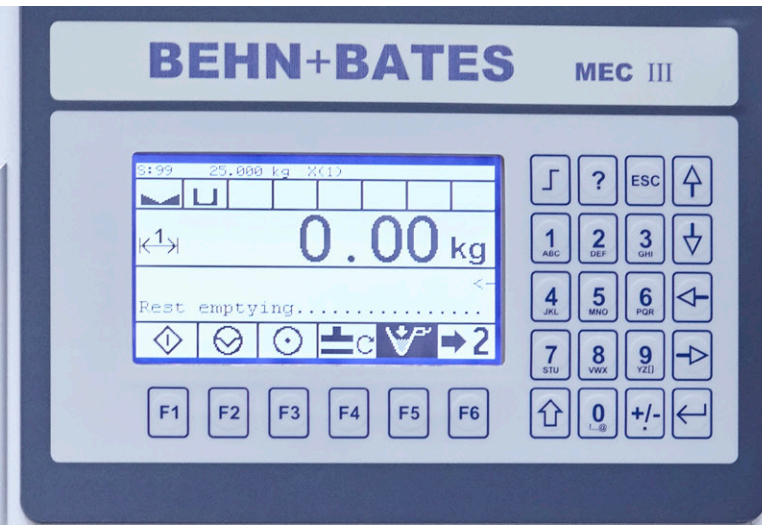
- No longer available servo drive of the linear unit will be replaced by our current design



## Your benefits

- Ensuring the availability of spare parts
- Prevention of downtimes

# Touch panel TP 104





## Conversion set

- Replacement of the BT15 panel by a TP104 touch panel
- The range of functions is carried out in the same way as for the existing control
- Including small and wiring materials
- Hardware and software adaptations
- Addition of the technical documentation

## Improvement

- More powerful CPU for packaging machine control
- Graphically supported operator guidance with:
  - Display of fault and operating messages
  - Buffer for error messages
  - Operation
  - Parameter input

## Your benefits

- Ensuring the availability of spare parts
- Prevention of downtimes
- Larger, brighter display
- Scratch-resistant real glass front
- Clear, structured variety management
- Display of the error history
- Intuitive, menu-driven operation
- Colored display of error and operating messages

## MEC 4 weighing electronics





## Conversion set

- Replacement of the obsolete MEC II-20 or MEC III weighing electronics with the new weighing electronics MEC 4 including MEC 4 touch panel (7" widescreen color display)
- The functional range is the same as for the existing MEC II-20 or MEC III
- Including adapter plate for installing the MEC 4 touch panel at the installation location of the old MEC II-20 or MEC III operating terminal
- New load cell for connection to the MEC 4
- Hardware and software adaptations
- Supplementing the technical documentation

## Improvement

- The obsolete MEC II-20 weighing electronics, which are no longer available, or the MEC III weighing electronics and their operator terminal will be replaced by our state-of-the-art weighing electronics
- The installation site of the MEC 4 is the existing switch cabinet
- With the adapter plate, the MEC II-20 or MEC III operation terminal will be replaced by the MEC 4 touch panel at its location in 1 by 1



## Your benefits

- Ensuring the availability of spare parts
- Prevention of system down-times

## Exchange of the check weigher





## Conversion set

- Patented electrical check weighing system for automatic compensation of the packaging machine weighing device inclusive statistical data for each filling spout
- Interface for the remote adjustment of the check weigher

## Improvement

- Maintenance free and self-illuminated digital display
- Classified in five (5) groups with clear text display
- Display of the gross or net weight
- Possible speech input of the parameter
- Memory capacity of 99 different sorts/ recipes
- Production statistics
- Weighing range up to 50 kg
- Data exchange with patented filling module adjustment system



## Your benefits

- Spare parts availability

## Retrofit of the safety technology for valve bag sealing stations



## Conversion set

- Replacement of the two-hand operation with a light barrier
- Completely with elements of a safety fence, including cable material
- Software adjustments
- Including additional completion of the technical documentation

## Improvement

- Simpler operation due to replacement of the two-hand operation
- Complete protected closing operation and bag discharge
- If light barrier is interrupted the packaging machine shuts down and the components of the sealing station and bag pusher remain in their position

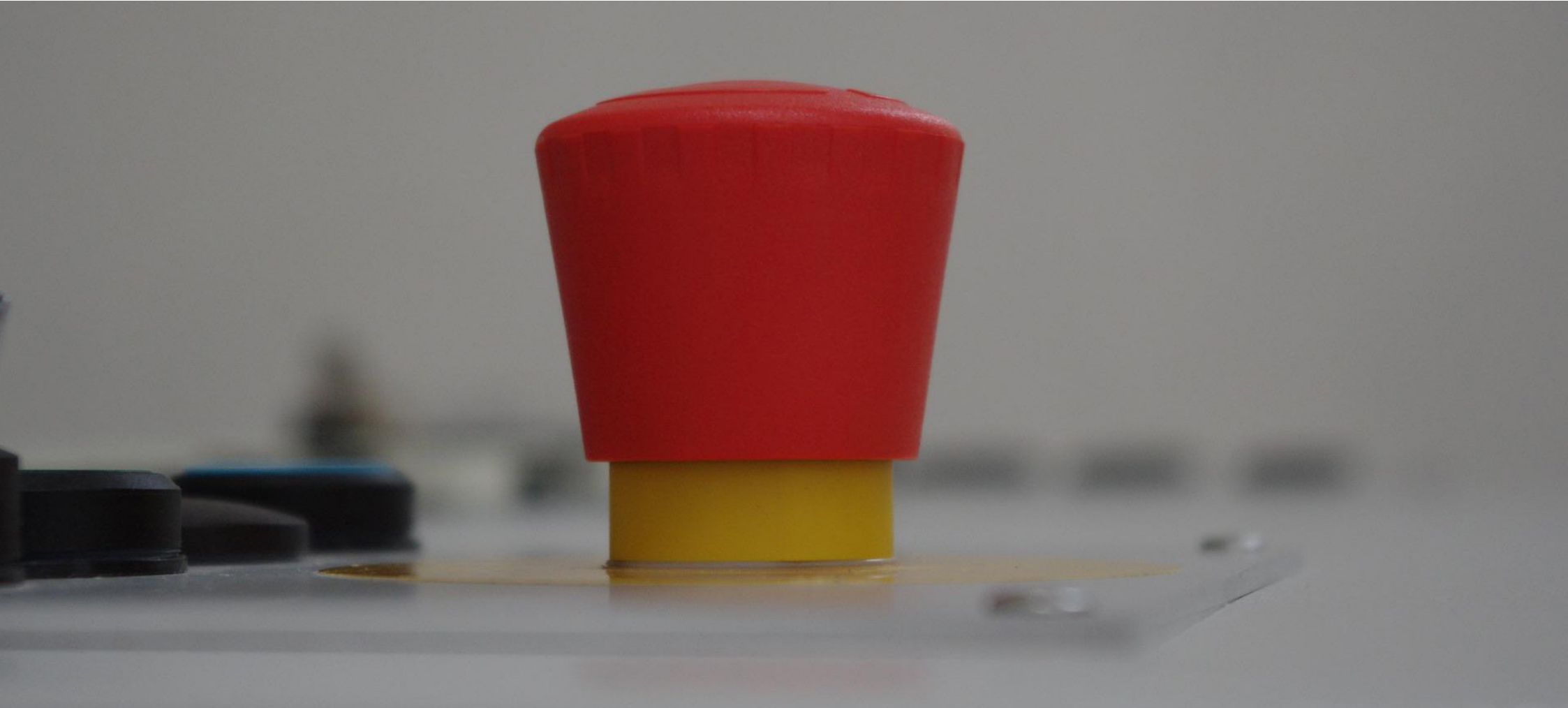
## Your benefits

- Automatic filling, sealing as well as bag discharge
- Ergonomic improvement



## Machine safety

---



## Our range of services to keep your machine available and safe:

- Support in safety related questions
- Risk assessments
- Hazard assessments
- Safety concepts
- Consulting on explosion protection measurements
- Training of employees and customer personnel
- Safety inspections of machines and plants
- Acoustic emission measurements
- Thermography measurements



## Your benefits

- Compliance with legal guidelines
- Avoidance of loss of working hours through safety and protection at work
- Motivated employees in a safe working environment



PROCESSING STORAGE MIXING FILLING PACKING PALLETIZING LOADING AUTOMATION



## BEHN + BATES Maschinenfabrik GmbH & Co. KG

Robert-Bosch-Straße 6  
48153 Münster | Germany  
Phone: +49 251 9796-0  
E-mail: [sales@behnates.com](mailto:sales@behnates.com)  
[www.behnates.com](http://www.behnates.com)



# CHECKLIST FOR SELF-DIAGNOSTICS



Components	 OK	 To check	 Not OK
Age of machine	<input type="checkbox"/> 2 - 10 years	<input type="checkbox"/> 10 - 20 years	<input type="checkbox"/> older than 20 years
Machine control/PLC	<input type="checkbox"/> Siemens TIA	<input type="checkbox"/> AllenBradley/ Siemens S7	<input type="checkbox"/> SIEMENS S5
Weighing electronics/Display	<input type="checkbox"/> MEC 4.0	<input type="checkbox"/> MEC III	<input type="checkbox"/> MEC II, MEC II-20 Data Pond, Mini Pond
Touchpanel BT15/BT 1000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Touchpanel BT15/ BT 1000
Touchpanel EATON	<input type="checkbox"/> TP 104 (>2019)	<input type="checkbox"/>	<input type="checkbox"/> TP 104 (<2019)
Remote Service System	<input type="checkbox"/> Helmholtz REX 100	<input type="checkbox"/>	<input type="checkbox"/> Westermo/INSYS
Drive motor	<input type="checkbox"/> SEW	<input type="checkbox"/>	<input type="checkbox"/> BAUER
Frequency converter	<input type="checkbox"/> SEW	<input type="checkbox"/> DANFOSS/ SIEMENS	<input type="checkbox"/> BAUER/NORD/ LUST
Sealing generator	<input type="checkbox"/> EUROSONIC	<input type="checkbox"/>	<input type="checkbox"/> SONOTRONIC
Pneumatics (Valves & Fittings)	<input type="checkbox"/> HAVER & BOECKER	<input type="checkbox"/> Festo	<input type="checkbox"/> Bosch/Rexroth
Pneumatic cylinders	<input type="checkbox"/> Norgren	<input type="checkbox"/>	<input type="checkbox"/> ASTRO
Linear unit: valve opener	<input type="checkbox"/> HAVER & BOECKER	<input type="checkbox"/>	<input type="checkbox"/> Bosch Rexroth/ Aventics
Linear unit: hoisting device	<input type="checkbox"/> HAVER & BOECKER	<input type="checkbox"/>	<input type="checkbox"/> Bosch Rexroth/ Aventics
Linear unit: rejector	<input type="checkbox"/> HAVER & BOECKER	<input type="checkbox"/>	<input type="checkbox"/> Bosch Rexroth/ Aventics
Linear unit: bag applicator	<input type="checkbox"/> HAVER & BOECKER	<input type="checkbox"/>	<input type="checkbox"/> Bosch Rexroth/ Aventics
Linear unit: bundle pusher	<input type="checkbox"/> Motorischer Antrieb	<input type="checkbox"/>	<input type="checkbox"/> Bosch Rexroth/ Aventics
Maintenance unit	<input type="checkbox"/> Camozzi	<input type="checkbox"/>	<input type="checkbox"/> ASTRO
Filling spout	<input type="checkbox"/> short inflatable sleeve	<input type="checkbox"/> long inflatable sleeve	<input type="checkbox"/>
Filling spout	<input type="checkbox"/> quick change	<input type="checkbox"/> no quick change	<input type="checkbox"/>
Butterfly valves	<input type="checkbox"/> WAREX	<input type="checkbox"/> EBRO	<input type="checkbox"/>
Spare and wear parts on site	<input type="checkbox"/> yes	<input type="checkbox"/> only wear parts	<input type="checkbox"/> none
Maintenance contract	<input type="checkbox"/> yes	<input type="checkbox"/> on demand/ on expense	<input type="checkbox"/> no



PROCESSING STORAGE MIXING FILLING PACKING PALLETIZING LOADING AUTOMATION



## BEHN + BATES Maschinenfabrik GmbH & Co. KG

Robert-Bosch-Straße 6  
48153 Münster | Deutschland  
Phone: +49 251 9796-0  
E-mail: [bb-umbauten@behn Bates.com](mailto:bb-umbauten@behn Bates.com)  
[www.behn Bates.com](http://www.behn Bates.com)