STATEC BINDER

highly efficient bagging and palletizing solutions

- Market leader
- Highest quality
- Customized solutions
- 40 years of experience
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Orange: Austria / STATEC BINDER-head office

Brown: Installed STATEC BINDER-bagging and palletizing systems
History of STATEC BINDER

- **1894:** Foundation of mother company Binder+Co AG today 100 % public company
- **1978:** First company developing a **fully automatic high-speed bagging machine** for prefabricated bags
- **2008:** Foundation of Joint Venture STATEC BINDER GmbH
- **2014:** Establishment of **SB (Thailand) Co., Ltd.**
- **2017:** Expansion of STATEC BINDER-head office
STATEC BINDER stands for

- a worldwide market-leadership in high-performance bagging and palletizing
- high-quality product range
- flexible and customized solutions
- absolute reliability, innovation and precision
- worldwide customer service
- 40 years of experience
- more than 1,200 installed machines worldwide
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- BOGASARI INDOFOOD
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- CPF CHAROEN POKPHAND FOOD
- CPF VIETNAM
- PERFECT COMPANION GROUP
- PT LAUTAN LUAS
- PT TIGA PILAR
- PT SUGAR LABINTA
- BETAGRO GROUP
- LAEMTHONG
- MITR PHOL SUGAR
- LAMSAN STARCH
- LG CHEMICALS
- INDIAN OIL
- THAI POLYACETAL
- RELIANCE
- HMC POLYMERS
- YARA FERTILIZER
- TITAN MALAYSIA
- BUSCO SUGAR
- JG SUMMIT PETROCHEMICAL
- PETROKIMIA GRESIK
- HONAM PETROCHEM
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Bagging and Palletizing Systems

- Bagging machines for open-mouth bags: up to 2000 bags per hour
- Form-Fill-Seal machines: up to 2400 bags per hour
- Big Bag-Filling stations: up to 150 Big Bags per hour
- Palletizing systems: up to 2400 bags per hour
Bagging and Palletizing Systems

- Semi automatic bagging machines
- Net weighers
- Bag closing-systems

- Woven Polypropylene (PP), Polyethylene (PE), paper bags
- Bags with filling weight of 5 to 50 kg
- Plastic pellets, flour, grain, sugar, fertilizer, animal food, etc.
Flour / Powder Handling STATEC BINDER

Fully automatic high-performance bagging carousel
CIRCUPAC – up to 1200 bags per hour
Bagging Carousel CIRCUPAC

✓ Fully automatic high-speed bagging system for pre-fabricated open-mouth bags
✓ For woven PP-bags, PE-bags & paper bags
✓ Perfect solution for bagging of flour and powdered products
✓ Up to 1200 bags per hour

Innovative system
✓ Continuous rotation
✓ 6 rotating filling spouts
✓ Permanent product compression
## Bagging Carousel CIRCUPAC

<table>
<thead>
<tr>
<th>Capacity:</th>
<th>up to 700 bags/hour*</th>
<th>up to 1200 bags/hour*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bag placing:</td>
<td>fully automatic</td>
<td></td>
</tr>
<tr>
<td>Bag feeding system:</td>
<td>bag magazine, system-R, tubular PE-reel</td>
<td></td>
</tr>
<tr>
<td>Bag type:</td>
<td>pillow bag, gusset bag</td>
<td></td>
</tr>
<tr>
<td>Bag material:</td>
<td>woven PP-bags, paper bags, PE-bags</td>
<td></td>
</tr>
<tr>
<td>Bag width:</td>
<td>330 - 640 mm</td>
<td></td>
</tr>
<tr>
<td>Bag length:</td>
<td>600 - 1200 mm</td>
<td></td>
</tr>
<tr>
<td>Filling weight:</td>
<td>10 - 50 kg</td>
<td></td>
</tr>
<tr>
<td>Air pressure:</td>
<td>6 bar, constant, dry and oil free</td>
<td></td>
</tr>
<tr>
<td>Air consumption:</td>
<td>~90 Nm³/h</td>
<td>~150 Nm³/h</td>
</tr>
<tr>
<td>Power supply:</td>
<td>3 x 380 - 480 VAC, 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>Power consumption:</td>
<td>~20 kW</td>
<td></td>
</tr>
</tbody>
</table>

*depending on product flow ability and filling weight
CIRCUPAC 700

- Start-stop operation of the carousel
- Driven by gearbox motors with frequency inverter
- 4 filling spouts
- Food-grade & ATEX execution
- Pillow and gusset bags with the same machine
- Bagging capacity: up to 700 bags per hour

CIRCUPAC 1200

- Continuous rotation of the carousel
- Driven by servo motors with one master controller
- 6 filling spouts
- Food-grade & ATEX execution
- Pillow and gusset bags with the same machine
- Bagging capacity: up to 1200 bags per hour
Housing of Machine

- Fully enclosed housing
- Sturdy and compact design
- Windows around housing
- Safety switches – if door is opened, machine stops
Weighing Process

- Double screw dosing system for highest precision:
  - large one for coarse feed
  - small one for fine feed
Weighing Process

- Motor driven with frequency inverter
- 3 load cells
- After weighing weigh hopper opens and product flows through discharge chute into the bag that is placed on the filling spout
Bag Magazine

- Bag magazine change:
  - bag magazine turns when empty
  - full bag magazine goes into operation

- Empty bag magazine can be refilled during operation

- Special design of singling out-grid in order to run soft bags
Empty Bag Transport

- Transport of empty bag to pick-up table
- Film thickness measurement – recognizes if two or more bags stick together
- Rejection if more than one bag
Bag Opening Unit

- Special design to operate pillow and gusset bags
- Bag opening through vacuum suckers
- Servo-driven unit for perfect accuracy
Filling Spout

- Dust-tight filling spout
- Dust extraction through internal piping system
- Pneumatic control system – checks if bag is placed correctly on the filling spout
Filling Carousel

- 6 filling spouts
- Specially designed vibrating plates in order to get a compact filled bag
Bag Removal Unit

- Servo-motor driven movements
- Pick-up of bag by grippers
- Positioning of the filled bag on the transport belt
Bag Closing Unit

- Fully automatic sewing machine for secure and accurate bag closing
- Optional: Labelling
General Operation

All movements are driven by one intelligent master servo drive-controller – all other drives follow it with a virtual gearbox.

Benefits:

- Capacity can be adjusted by changing one parameter
- Easy handling for operation
- Easy maintenance
CIRCUPAC 1200

Continuous rotation of the carousel

Continuous compression of the product

Up to 1,200 bags per hour

Extended filling time through 6 filling spouts
STATEC BINDER
highly efficient bagging and palletizing solutions

THANK YOU FOR YOUR ATTENTION!