BOTTLE UNSCRAMBLERS

SB series
**TECHNICAL DATA**

- **Power installed**: 1.5KW
- **Air requirement**: 0.5 m³/h
- **Max. working pressure**: 0.1 – 0.4MPa
- **Power supply**: 400V – 3 PH 50/60 Hz
- **Steering voltage**: Mitsubishi [24 V/DC]
- **Dimensions SB (WxHxL)mm**: 1680 x 2390 x 1530
- **Hopper 2m** *(LxWxH)* mm: 2918 x 2056 x (1553)1980

**SB-6**
- Output:
  - Bottles 0.25 – 0.5L: 12 000 BPH
  - Bottles 1.0 L: 9 000 BPH
  - Bottles 1.5L: 6 000 BPH
  - Bottles 2.0L: -

**SB-10**
- Output:
  - Bottles 0.25 – 0.5L: 14 000 BPH
  - Bottles 1.0 L: 10 000 BPH
  - Bottles 1.5L: 8 000 BPH
  - Bottles 2.0L: 6 000 BPH

*2, 3 and 4m³ hopper available
**depends on a bottle design

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1. Hopper for bottles
2. Conveyor transporting bottles to unsrambler
3. Process of putting bottles in upright position

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**SB-6**: 1680mm
**SB-10**: 2100mm

**SB-6**: 2390mm
**SB-10**: 2970mm

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**Dimensions**
- SB-6: 2390mm
- SB-10: 2970mm

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**SB-6**: 1550mm
**SB-10**: 1550mm
SB-6 and SB-10 are belt type linear unscrambling machines designed to provide bottles (or other containers) to the production line. Bottles in upright position can be transfer directly to the filling line. SMF offers linear “belt type” unscramblers (SB6 and SB10) as well as a “pocket type” rotary unscramble SB20. Disordered bottles are loaded into a bottle hopper, an unscrambler puts them into vertical position and moves them on the vacuum, plate or air conveyor.

**KEY ADVANTAGES OF SB SERIES:**

- Suitable for PET bottles as well as other type of plastics,
- Versatility in running many bottle formats and sizes on same machine – suitable for cylinders, jars, ovals, squares, rectangles and other oddly shaped bottles,
- Cost-saving solution – automation of production process,
- Hygienic process – bottles do not have contact with operators,
- Operational simplicity – no specialized personnel needed.
SB 20 Rotary Pocket Unscrambler is versatile and can easily handle various shapes of bottles. Changeover between runs is quick and simple. SB20 is fully automatic and operates at variable speeds with reduced noise level. The great advantage of SB20 machine is a bottle selection system based only on gravity and compressed air. Operating costs are reduced to the minimum thanks to the innovative construction of the machine (SB20 is not equipped with many expandable parts such as belts or chains).
Types of conveyors produced by the SMF

- AIR Conveyors

- PLATE conveyors system

- VACUUM Conveyors

- ROLL Conveyors
- BELT Conveyors
- CHAIN Conveyors

- BUFFER Conveyors / Rotary tables
SMF conveyors are designed to transfer bottles, jars, cans, boxes and many other products. Depending on customers’ requirements conveyors are available in straight parts or curve parts and may work in a position or with different inclination angles.

For each project SMF prepares a unique layout of conveyors to make it suitable for capacity of the line, technical conditions and available space to ensure the stable production.

PET bottles air conveyors are designed to transport empty PET bottles and are most often installed between the PET blowing machine and the filling machine. They are used in most fully automatic filling lines. The air conveyor may consists of straight and curved modules, lifts, fans and a panel control.