SMf

BOTTLE UNSCRAMBLERS





TECHNICAL DATA

Power installed Air requirement Max. working pressure Power supply Steering voltage Dimensions SB (LxWxH)mm Hopper 2m³*(LxWxH)mm **Output**** Bottles 0.25 – 0.5L Bottles 1.0 L Bottles 1.5L Bottles 2.0L

O.5 m³/h O.1 – O.4MPa 400V – 3 PH 50/60 Hz Mitsubishi (24 V/DC) 1680 x 2390 x 1530

SB-6

1.5KW

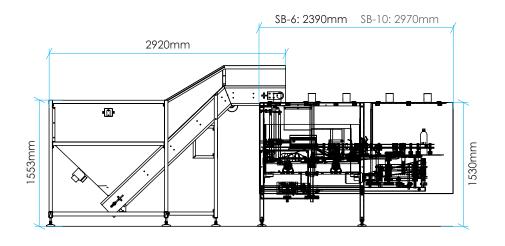
12 000 BPH 9 000 BPH 6 000 BPH

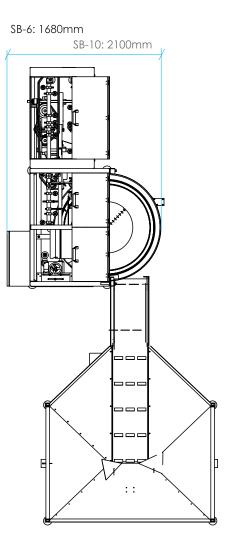
2918 x 2056 x (1553)1980

SB-10 2.5KW 0.5 m³/h 0.1 – 0.4MPa 400V – 3 PH 50/60 Hz Mitsubishi (24 V/DC) 2100 x 2970 x 1530 2918 x 2056 x (1553)1980

14 000 BPH 10 000 BPH 8 000 BPH 6 000 BPH

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





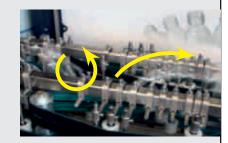
1. Hopper for bottles

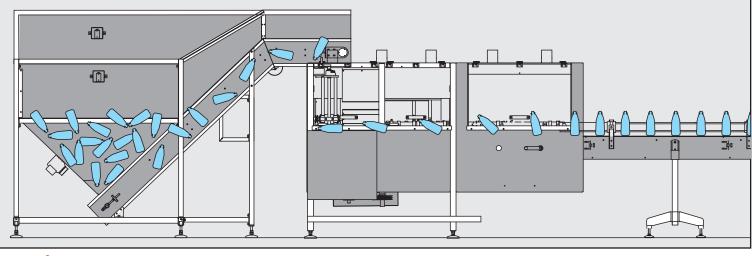
2. Conveyor transporting bottles to unscrambler

3. Process of putting bottles in upright po











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 "pocket type" rotary unscrambler 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 the same machine

suitable for cylinders,
jars, ovals, squares,
rectangles and other
oddly shaped bottles

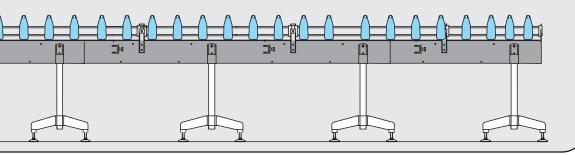
- •Cost-saving solution automation of production process
- Hygienic process bottles do not have contact with operators,
- Operational simplicity no specialized personnel needed

4. Tranferring bottles in upright position directly to air or plate/vacum conveyor



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LINEAR SB-6 SB-10













TECHNICAL DATA

Power installed Air consumption Working pressure Power supply Power of cylinder driving engine Cylinder rotation Cylinder diameter Total weight Dimensions SB (LxWxH) Dimensions Hopper 2m³*(LxWxH) Number of installed buckets Bottles 0.25 - 0.5L Bottles 1.0 - 2.0L Output** Bottles 0.25 - 0.5L Bottles 1.0 - 2.0L

SB-20

~6.5 kW ~54 m³/h 6 BAR 400V – 3 PH 50/60 Hz 1.5 kW – 2 PH 50/60 Hz 0 – 13/min 2100 mm 1630 kg 2475 x 2130 x 2090mm 480 x 480 x 1650mm

21 14

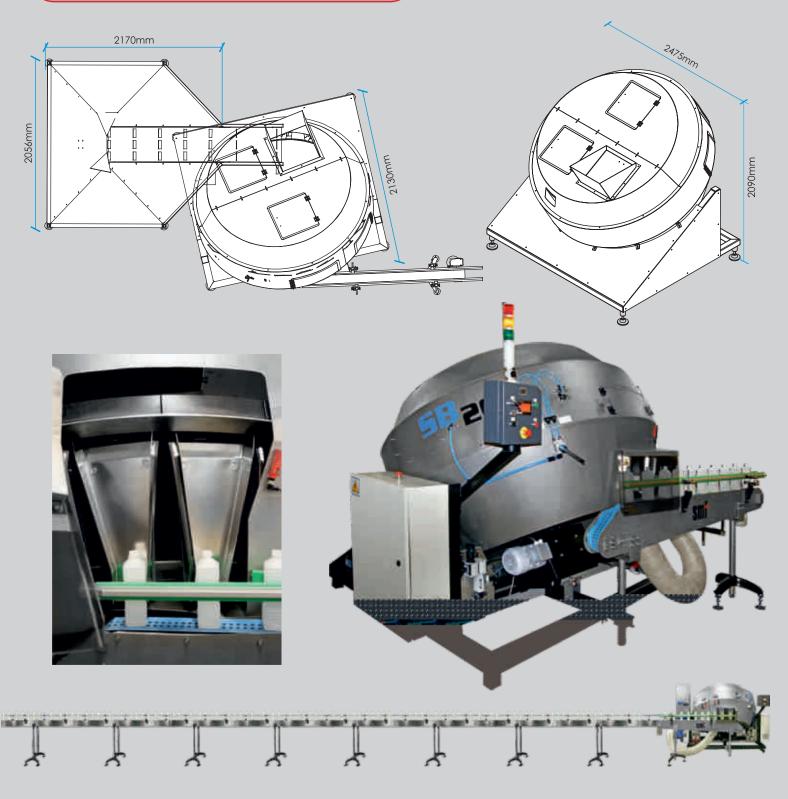
12 000 BPH 8 000 BPH

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

ROTARY SB-20

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).



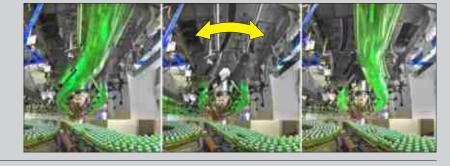
SB bottle unscramblers

Types of conveyors produced by the SMF

 AIR Conveyors (empty bottles conveyor)

 PLATE (mechanical or full-bottles conveyors) – single & multi rows

Line connectors (adders) /
/ Line separators (dividers)





ROLL Conveyors

VACUUM Conveyors

BELT Conveyors





BUFFER Conveyors /
/ Accumulations tables

Conveyors

CONVEYORS

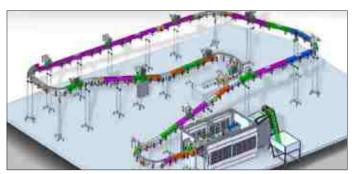
SMF conveyors are designed to transfer bottles, jars, cans, boxes and many other products. Depending on customers' requirements conveyors are available in straight or curve parts and may work in a vertical position or with different inclination angles.

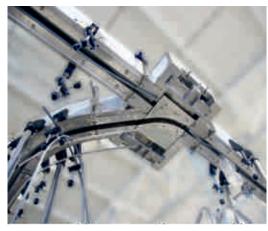
For each project SMF prepares a unique layout of conveyors to make it suitable for capacity of the line, technical conditions and available space to ensure the stable production.

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.



AIR conveyors system













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