



Performance  
through  
Understanding



BLOWING

## SIDEL MATRIX™ BLOWER

High performance with perfect compatibility

**As well as offering 200 possible configurations to precisely fit your production needs, Sidel Matrix blowers reduce your energy and material consumption as well as downtime.**

The Sidel Matrix blower is a modular blow moulding system which challenges PET production conventions. It delivers the fastest changeover time, lowest environmental footprint, highest oven efficiency, and greatest uptime on the market, offering clients the best total cost of ownership (TCO) possible.

### Consistency across multiple configurations

Sidel Matrix blow moulding machines offer the flexibility to pick and choose a size and shape that best fit your specific needs.

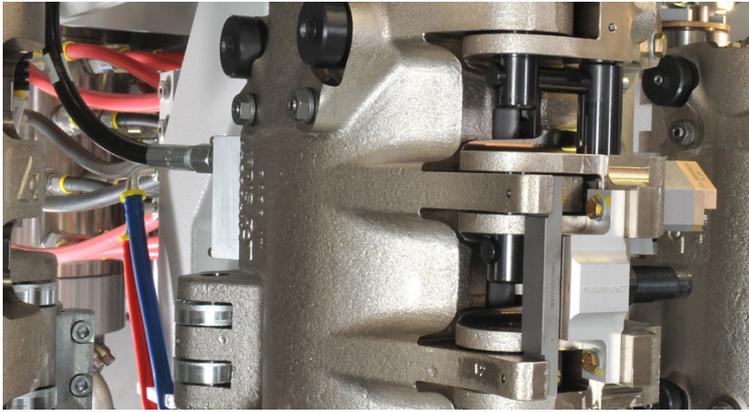
- Up to 200 possible blower configurations.
- Broad bottle sizes range from 0.1 litre to 3.5 litres: three sizes of blowing stations.
- Endless distinctive bottle shapes possible.

### OVERVIEW

- Consistency across multiple configurations
- Top bottle quality
- Fast and safe production
- Reduced electricity and air consumption
- Intelliblower™ makes every batch a winner
- Find the blowing output rate that matches your production needs

### SUITABLE LIQUID TYPES

- Water
- Carbonated Soft Drinks
- Beer
- Juices, Nectars, Soft Drinks Isotonics and Teas
- Liquid Dairy Products
- Wine
- Oil
- Household and Personal Care



Sidel blowing station | Sidel Matrix oven

### Top bottle quality

Whatever the configuration of the Sidel Matrix blower, customers benefit from top consistent bottle quality:

- A large process window allows a good processing.
- The quality control of material distribution is improved as the machine is equipped with electrical stretching.
- Safe packaging with the optional Intelliblower system: bottle process deviations can be automatically detected and eliminated.

### Fast and safe production

Alongside improving machine speed, the Sidel Matrix blower offers the best uptime on the market:

- Up to 98% production efficiency.
- A scrap rate of under 0.1%.
- Production output of 2,300 high-quality bottles per mould per hour.
- Automatic changeovers in less than 15 minutes bottle to bottle (on a 24-cavity machine with one operator).

### Reduced electricity and air consumption

The Sidel Matrix blower offers the best oven efficiency on the market with the Ecooven technology. Moreover, the air consumption is also reduced.

- Oven electrical consumption cut by up to 45%, requiring fewer heating modules and lamps.
- Reduced preform heating time, using the installed power more efficiently.
- Compressed air savings up to 30%.

### Intelliblower™ makes every batch a winner

Sidel Matrix blowers create the very highest PET bottle quality and performance. The Intelliblower is leading the way in blow moulding performance with its unique, patented blowing process control and self-regulation that allows precisely the desired brand appearance on shelves.

- It automatically detects and eliminates bottle process deviations and reduces scrap.
- Strong impact on production uniformity and packaging quality: control of the pre-blow phase parameters instead of just focusing on heating regulation.
- Very responsive management way by using a decentralized and more reactive automation: only five consecutive bottles are produced at the blowing station before the correction is validated.
- Available as an option with Sidel Matrix blow moulders.

## BLOWING OUTPUT RATE FOR BOTTLES UP TO 3.5 LITRES

Bottle sizes	Production output (bph*)	Sidel Matrix blowers
From 0.1 to 0.75 litres	52,800 to 81,600	From SB0 22 to SB0 34
From 0.1 to 2 litres	23,000 to 64,400	From SB0 10 to SB0 28
From 0.1 to 3.5 litres	13,500 to 63,000	From SB0 6 to SB0 28

\* bottles per hour - maximum mechanical output rate, with a speed up kit, according to the bottle's features