

FLEXIBILITY

Sidel's cap feeding systems offer maximum installation flexibility. Thanks to their modular design, Sidel cap feeders can easily be incorporated into the line around the filler.

The Flat Top air conveyor enables the Sidel cap feeder to be installed outside the filling enclosure for better hygiene and better overall line layout. The Flat Top air conveyor transports closures on a cushion of air at high speed with no friction. The conveyor engineering expertise at Gebo™ enables us to propose complex solutions (inclines, declines and curves) without any limits on distance.

The dual lane version of the cap feeder is perfect for multi-product lines handling caps with radically different designs (example: flat caps/sport caps). With the flick of a switch, format changeovers take just a few minutes.

CREATING AND MAINTAINING HYGIENE

Sidel's range of stainless steel cap feeding equipment truly helps to sustain the "clean chain". Elevation and orientation with the cap feeder generates far less dust than bowl systems.

At the exit, a filtered air system routes caps into a chute to the capper or into a Flat Top air conveyor. An air dedusting device, installed above the capper, combines an air ionization and suction system to complete the "clean chain."

To maintain cleanliness, the equipment offers options that meet the most stringent production criteria. Options include overpressure of the hopper, 0.01 micron filtration at pneumatic ejection, and rinsing of the hopper and conveyor belt. In addition, the Flat Top can be equipped with HEPA filtration. Sidel cap feeders are easy to maintain because their open design makes them very accessible. They're also built of durable and easy-to-clean materials.

GREATER RELIABILITY AND AVAILABILITY

The "waterfall" system by Aidlin™ is far more reliable than traditional solutions. The system immediately increases line efficiency and operator availability. Rejection systems for caps without tamper evidence rings or upside-down caps compensate for any defect and ensure continuous feeding of caps to the filler capper.

The standard 560-liter hopper can be enhanced with the use of an extra-large hopper (1,000 liters) or by automatic pre-feeding of the hopper (octabin discharger, trickle feeder). Certified to CE / UL standards, the Sidel cap feeder meets the highest standards to guarantee reliability over time with its SEW drive, DANFOSS frequency converter, SIEMENS ET 200S distributed I/O station, and FESTO pneumatic systems.

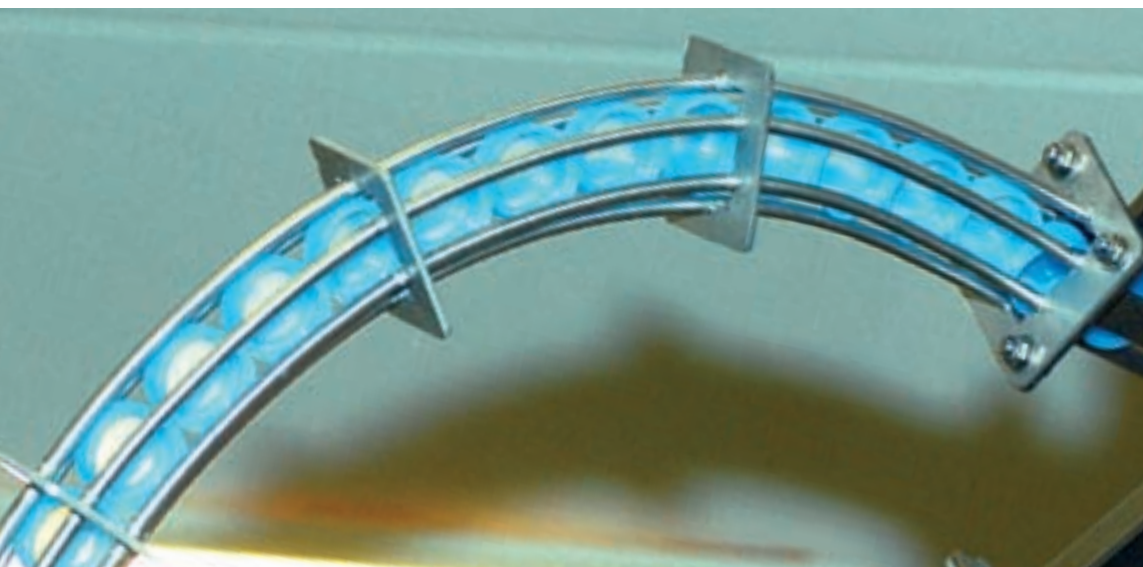
ERGONOMICS

To maintain maximum infeed system availability, Sidel bases its cap feeder design on several ergonomic principles:

- Hopper replenishment at chest height.
- Detection of low levels and jams.
- "Quick discharge" function for handling operations and faster production changeovers.
- A front door with safety switch for maintenance and cleaning.
- Stand-alone running or connected with the filler.

In the gravity chute, the low friction guarantees the integrity of caps.

Tool-less preset adjustments of the speed bump authorize quick changeover.





www.sidel.com



Cap and closure feeding

Performance and hygiene maximize your product quality



CAPPING IS CRITICAL BECAUSE IT IS THE POINT AT WHICH THE CONTAINER, CONTENTS AND CLOSURE COME TOGETHER. IN FACT, PRODUCT QUALITY AND OVERALL PRODUCTION PERFORMANCE CAN HINGE ON CHOOSING THE RIGHT CAP INFEEED SOLUTION.

Cap feeding, an essential detail

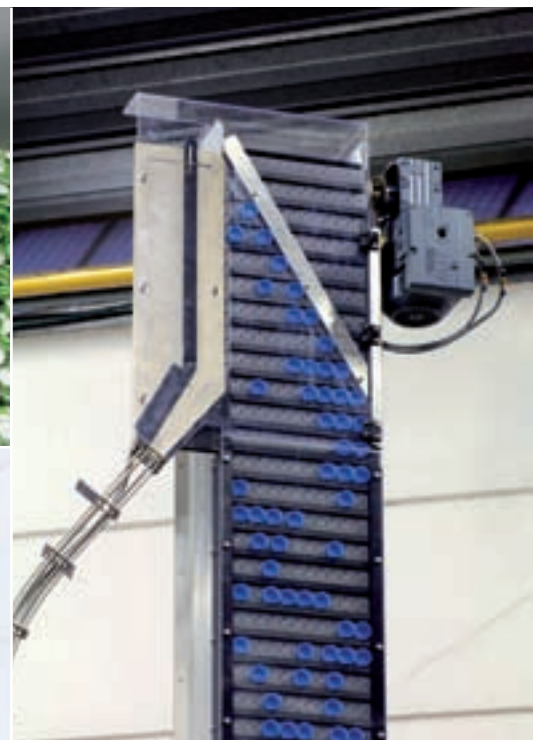
With more than 1,000 machines installed around the world, Sidel offers a wide array of solutions designed around two criteria: **performance**, built upon reliable orientation, and **hygiene**, guaranteed by the integrity of the clean chain.

A SIMPLE, UNIVERSAL PRINCIPLE

The Sidel cap feeder combines the functions of storage, elevation, orientation and high speed cap feeding in a very compact design.

The reliability of Sidel cap feeders is based on a simple “waterfall” concept (Aidlin™ patent) that effectively protects caps. A belt gently transports caps to the discharge. A speed bump under the belt carrying the caps -adjustable to the cap format- causes the fall of unproperly oriented caps by a simple gravity principle.

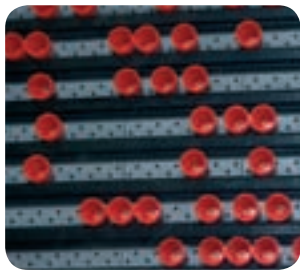
Sidel cap feeders can handle a wide range of caps for most applications including plastic or metal caps, flat, sport or crown caps, with outside diameters from 20-120 mm and heights from 10-50 mm.



Customised Solutions meeting your requirements

P High Performance Option

H High Hygiene Option



Belt

- P** Antistatic belt to avoid sticking of caps
- P** Ionization system to neutralize caps that are charged with static electricity

Pre-feeding systems

- P** Box discharge system
- P** Trickle feeder



Pre-feeding systems increasing cap feeder autonomy.

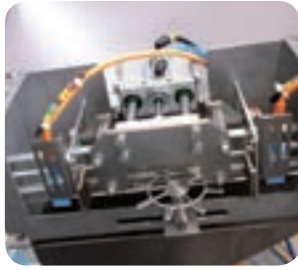


1	2	4
	3	5

- 1 - With its ergonomic design, the Aidlin™ 18-18 cap feeder increases production flexibility due to its quick cap changeover capability.
- 2 - The crown feeder Aidlin™ 24 CR has a hopper capacity up to 90,000 crowns.
- 3 - Easy access to the operator panel located on the electrical cabinet simplifies the operation of the cap feeder.
- 4 - Designed for lower speeds, the Aidlin™ Premier cap feeder features energy efficient cap ejection without the use of pressurized air.
- 5 - Sidel cap feeders gently orient caps and crowns at high speed thanks to the patented speed bump and specially designed cleats.

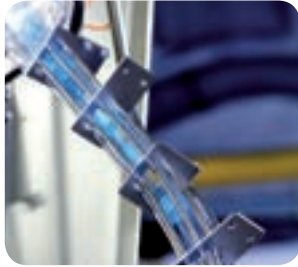


Control and ejection



- P** Rejection system for «ringless» caps
- P** Rejection system for «upside down» caps
- P** Pressco control
- H** 0,01 micron filtration

Feeding



▷ directly by gravity chute

- P** 2/1 or 1/2 manual or automatic switch
- P** Telescopic chute
- P** Transition chute



▷ Remote with flat top air conveyor

- P** 2/1 or 1/2 manual or automatic switch
- P** Single or dual tracks
- H** HEPA filtration



H Air dedusting device

Ionization and vacuum of particules.

Hopper



- P** Automatic discharge
- P** XL (1,000 L) hopper
- H** 12" hopper frame enabling easy access for cleaning
- H** Pressurized hopper with absolute filtration to avoid the entrance of any dust
- H** Hopper bottom cover

1 cap format				2 cap formats			
FLAT		SPORT	CROWNS	FLAT / SPORT		CROWNS / FLAT - SPORT	
AIDLIN™ PREMIER		AIDLIN™ 24		AIDLIN™ 24 CR		AIDLIN™ 18-18	
						AIDLIN™ 18-18 CR	
PERFORMANCE* (no/min)							
FLAT	FLAT	SPORT	CROWNS	FLAT	SPORT	FLAT	CROWNS
420	2,000	900	1,350	1,000	750	1,000	1,100
CAPACITY* (caps in standard hopper)							
15,000	20,000	10,000	90,000	25,000	13,000	25,000	100,000

* Indicative value for pco 28, depends on caps.