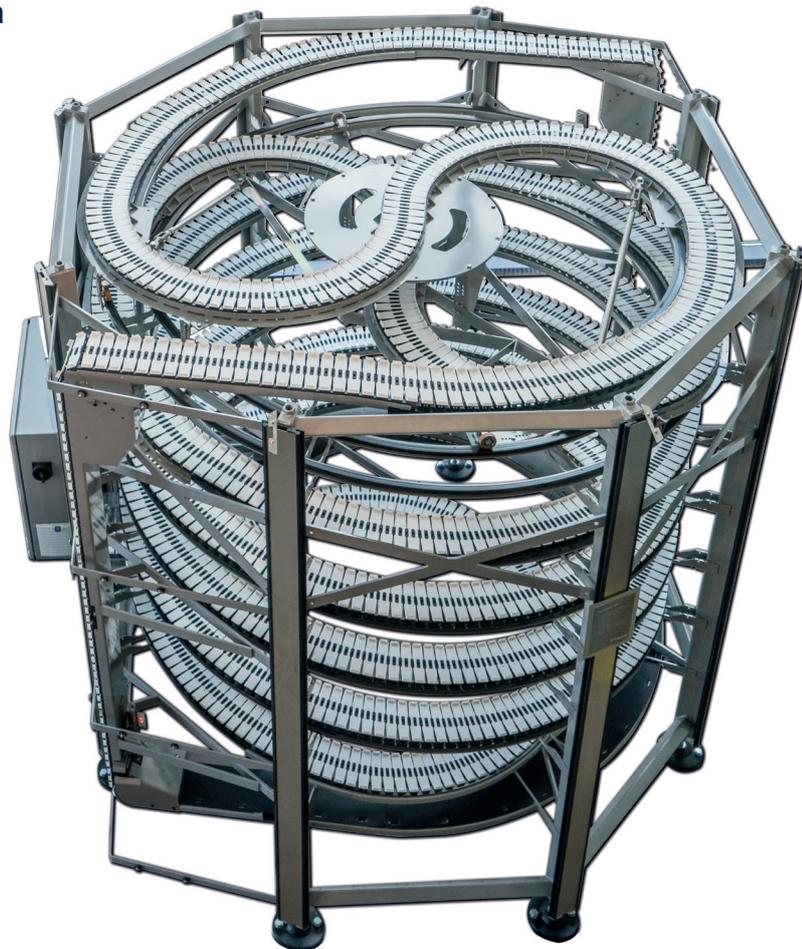


AccuVEYOR AVH - SERIES

Dynamic Accumulation for primary packing

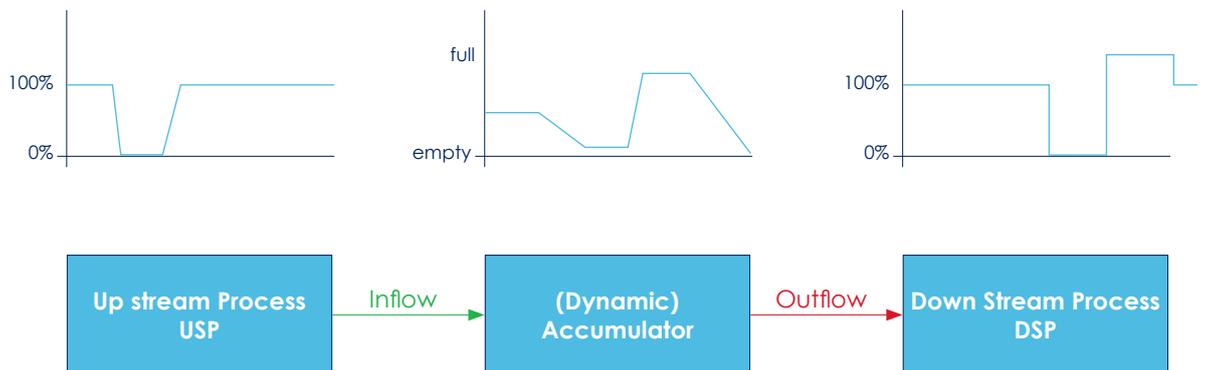
Unique patented belt transfer resulting in:

- No product contact!
- ONE-belt system
- Self-controlling system
- Product size/shape independent
- No service parts
- Compact design



The AccuVeyor AVh has been designed to eliminate the limitations of traditional spiral accumulators. As a dynamic accumulator, it disconnects the successive processes/machines in packaging lines, filling lines, etc.

The fact that it's dynamic indicates that the accumulator will absorb any speed differences between the connected machines in a continuously variable way, which prevents possible disruptions from occurring in the other machines. Should a machine run slower than the previous one, the accumulator will store the products to process these at a later stage. This way, production stops of up to 5 minutes can easily be handled, and efficiency will rise.



Typical characteristics of discontinues processes balanced out by a Dynamic Accumulator.

Purpose of Accumulation

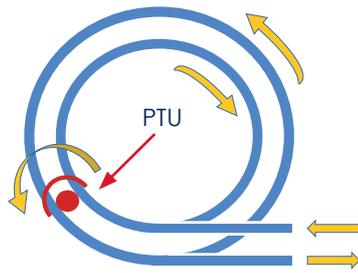
Accumulation can increase line efficiency and reduce waste by:

- Eliminating micro stops in the up/downstream by accumulating or feeding products, avoiding unnecessary stops in the process.
- Upstream controlled stop when downstream slows/breaks down, reducing waste products and, decreases startup time/issues by keeping the upstream process running.
- Harmonizing equipment with different startup characteristics.
- Line balancing, taking care of small temporary speed changes in a line, and ensuring a steady downstream feed of products in the most optimum way.
- Any combination of the above.

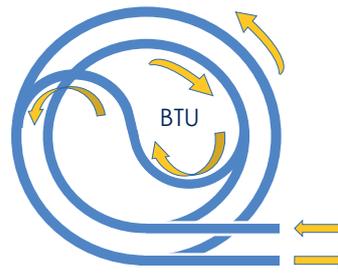
What is unique about the AVh?

A state-of-the-art dynamic accumulator, such as the AmbaFlex AccuVeyor AVd, is FIFO, low-pressure, and low-contact. And, of course, spiral-shaped in order to create a maximum of accumulation potential on a minimum amount of surface area.

The AccuVeyor AVh has several advantages in addition to these. Any other two-belt spiral accumulators will clamp or touch products in order to transfer them between the two belts. The AccuVeyor AVh though does not touch the products in any way and runs on only a single belt.



Product transfer unit (PTU)



Belt transfer unit (BTU)

Better still, the products do not even change tracks but remain on the same portion of conveyor belt, in-between the infeed and outfeed parts. Not the products, but the conveyor belt changes direction! The belt is guided by the Belt Transfer Unit for the up to the down running segment.

AmbaFlex designed this unique, no-compromise, patented system by combining their experience of spiral conveyors with their knowledge of dynamic accumulation. Their objective was to design the ultimate efficiency optimizer, a new generation of dynamic accumulators. And the AccuVeyor proves that they have succeeded in this mission: the result has surpassed all expectations.

For which applications?

The AccuVeyor AVh is especially suitable for sensitive processes and products, such as pouches, pharmaceutical products, and other vulnerable articles that are sensitive to pressure. Bottles, liquid cartons, and boxes are handled with ease. It's even possible to accumulate multiple parallel product streams on the same conveyor belt.

One technology - two configurations

The AVh comes in two configurations, each designed to suit different types of applications.

The **AVh-N** (N stands for **N**ested) has the in-feeding and out-feeding segment of the belt nested on top of each other. It's suited for products with a lower height and offers an economical solution that provides more accumulation potential on the same diameter.

The **AVh-P** (P stands for **P**arallel) has the in-feeding and out-feeding segment parallel next to each other. This means there is more headroom in-between the windings, which allows taller products such as bottles to be accumulated.



AccuVeyor AVh-N



AccuVeyor AVh-P

ACCUVEYOR AVH-SERIES

PPI

How does it work?

This system matches the very DNA of AmbaFlex: simple in design yet extremely effective. The whole structure is very compact as it has an outer diameter of only 2.2 meters (7ft). An S-shaped belt transfer connects the up and down moving spiral segments on both sides. Depending on the requested storage capacity, the belt transfer moves up or down. The transfer takes the conveyor belt from the spiral that is going upward and takes it over the other side, to place it into the spiral going down.



Avh-N with nested up and down spiral segments



Belt Transfer Unit



Belt with integrated guides

And all without touching or moving the product itself. The bottom windings above the BTU of the spiral act as accumulators, while the upper ones are purely intended to store any belt length that is currently not in use. The complete system consists of ONE single continuous belt.

High-capacity AccuVeyor AV

The AVh also comes in a high-capacity configuration for extreme accumulation demands as it can offer up to double the standard capacity. This is a result of two highly integrated accumulation towers working together as one. It offers extra redundancy and is more compact than any other high capacity accumulator currently on the market. All while retaining the unique feature of not touching the products.

| AccuVeyor AVh Series | N 610 | N 470 | P 424 | P 344 |
|--------------------------|---------|---------|---------|---------|
| Pitch (mm) | 610 | 470 | 424 | 344 |
| Inline (dgr) | 5.5/7.5 | 4.1/6.1 | 4.7/6.4 | 3.6/5.5 |
| Max. product height (mm) | 160 | 90 | 250 | 170 |

| AccuVeyor AVh Series | metric | imperial |
|--|-----------------|--------------|
| FiFo / No pressure / No product transfer | | |
| Belt width | 140 mm | 5.5" |
| Standard AccuVeyor AVh | | |
| Foot print square | 2.4 x 2.6 m** | 8 x 8.5 ft** |
| Max. accumulation length | 60/90 m* | 180/270 ft* |
| High capacity AccuVeyor AVh | | |
| Foot print square | 2.4 m x 5.2 m** | 8 x 17 ft** |
| Max. accumulation length | 120/180 m* | 360/540 ft* |

*) depending on application

**) excluding lower ends



AVh high capacity



AmbaFlex
SCIENCE IN SPIRALS

AmbaFlex Headquarters | EUROPE
mail@ambaflex.com
phone +31 229 285 130

AmbaFlex NORTH AMERICA | USA
info@ambaflex.com
phone (877) 800 1634

AmbaFlex JAPAN
japansales@ambaflex.com
phone +81 3 6908 7980

AmbaFlex CHINA
china@ambaflex.com
phone +86 21 62 30 65 00

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