

VAF

Value Added Feature

SPIRAL VEYOR[®] ML-CONFIGURATION

For Multi-Level induction and diverting of your flow

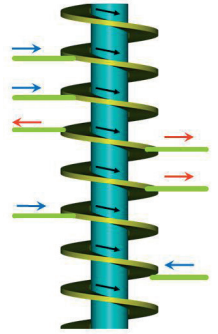
- Spiral Elevator
- Spiral Merge
- Spiral Divert
- Vertical sorter
- High speed
- High capacity



SPIRALVEYOR® ML-CONFIGURATION

VAF

The SpiralVeyor® ML-configuration is a Multi-Level Spiral elevator. It offers greater flexibility when designing your lay-out in 3 dimensions. Products can be merged into, or be diverted from, the SpiralVeyor on different levels. It has been proven to be a very effective solution, especially when combined with order pick modules and order release systems, as well as freeing up valuable floor space by merging/diverting above ground level. AmbaFlex invented the Multi-Level spiral conveyor in 2001 and has installed many of them for numerous clients since then. The inventive solution has been granted several patents.



Set up:

The SpiralVeyor® ML consists of 3 hardware elements.

- 1) A SpiralVeyor® SV platform
- 2) one or more merge units and/or
- 3) one or more diverts.

For this configuration, AmbaFlex provides the SpiralVeyor® and optionally the connection conveyors, connection bridges and diverts. The system integrator is responsible for providing the overall traffic control, installation, integration and connecting conveyors.

Merging/Induction:

Merging/Induction can take place tangentially or radially. Radially is selected for the irregular introduction of regular shaped items like boxes or tote boxes. Tangentially is preferred when introducing trains/slugs, and/or odd shaped items like SKU's.

Divert:

Depending on the use, there is a choice of two types of diverts. The radial divert, diverts the products radially from the main stream. The tangential divert leads items in tangential direction from the main stream.

Connection:

To connect the conveyors to the ML-configuration a connection bridge is preferred and most economic. For special cases circular shaped connection conveyors can be applied.

Configurations:

The SpiralVeyor® ML-configuration can be applied on all belt width of the SpiralVeyor®. The diverts and infeeds can be positioned in all directions between 90, and even 45 degrees positions, in respect to the windings.

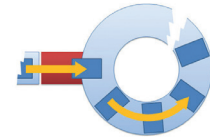
Performance:

We have experienced good long-term practical performances with speeds up to 180 fpm e.g. 3000 - 4500 items per hour. Elevation of multiple stock levels is possible with just one spiral. For detailed information about the hardware, please see the SpiralVeyor® SV-series Product Data Sheet.

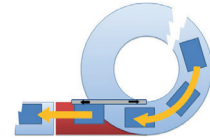
For more information about multi-level concepts, please ask for our extended Concept Design Sheet.



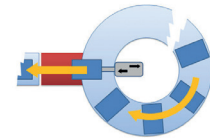
Tangential induction



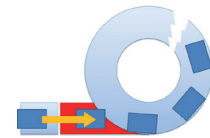
Radial induction



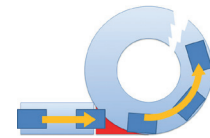
Tangential divert



Radial divert



Connection conveyor



Connection bridge



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LEADING SPIRAL CONVEYOR SOLUTIONS