

High-performance, controlled multi-directional movement of goods

Sphere Top 1" plastic modular belt



As volumes in the logistics, parcel- and unit-handling market continue to grow, so does the need for new conveying solutions that offer greater automation and reduced manpower.

Habasit's new HabasitLINK® M2483 Sphere Top 1" plastic modular belt is a compelling solution for the controlled movement of goods on the belt in all directions, even if different from the belt's conveying direction. Rotary movement of goods is also possible. The belt is particularly suitable for logistics and parcel handling applications where goods are accelerated, sorted, diverted, merged, turned, accumulated, or re-spaced – whether small or large, packed or unpacked.



The Sphere Top belts offer excellent flexibility

The rotating sphere balls can target almost any angle allowed by the conveying system, which makes it easier to handle packed goods during automated add-on applications like printing, scanning, or rejection after inspection.



Strong design using dedicated materials

Habasit's Sphere Top modules are available in POM with PA rods and sphere balls. Using POM for the main module ensures low friction, with PA spheres offering good wear resistance against many conveyed goods. The strong hinge design secures a long belt lifetime even at high loads.



High throughput and reduced total cost of ownership

The innovative Sphere Top belt has been developed to help our customers achieve high and reliable throughput targets and improved performance. The design and materials used keep operational costs low, with a positive impact on total cost of ownership.



Sphere snap-back

When spheres are pushed down flush, they pop back up and continue ensuring full functionality of the belt. By comparison, the spheres in competitor belts stay down, or even fall out of the belt, negatively impacting their performance.



Engineering support with guidelines

Habasit offers expert R&D engineering support to our customers, including in-system designs. We also provide detailed engineering guidelines with solutions for common applications.



Low risk of dust and dirt accumulation

Due to the steel rod floaters that retain the spheres, pivoting action is undistorted by dust or grease, thus ensuring functionality. Increased belt weight provides better contact between support and spheres.

The tight cavities for the rotation spheres in the modules reduce the risk of dirt accumulation and ensure high availability of equipment as well as noise reduction.

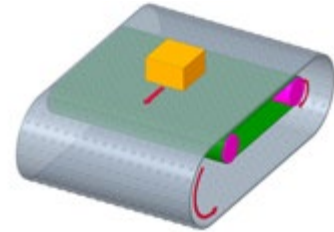
The following systems show the controlled movement of goods on the belts in various directions.

System 1

A fabric belt is oriented parallel to the modular belt, on which the load is placed. The spheres of the modular belt are in contact with the fabric belt.

During the movement of the load, depending on the speed and direction of both belts, the load:

- Moves backward
- Does not move
- Moves forward

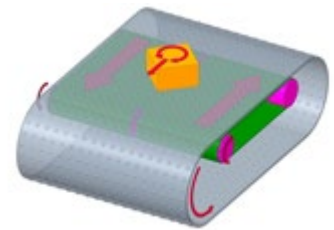


System 2

Two fabric belts are placed next to each other, both oriented parallel to the modular belt. The spheres of the modular belt are in contact with both fabric belts.

During the movement of the load, depending on the speed of all three belts, the load:

- Moves backward
- Moves backward and rotates
- Does not move
- Does not move and rotates
- Moves forward
- Moves forward and rotates.

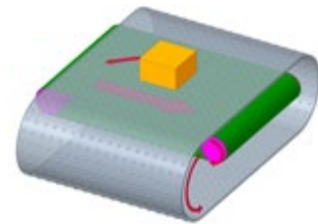


System 3

A fabric belt is oriented transversely to the modular belt. The spheres of the modular belt are in contact with the fabric belt.

During the movement of the load, depending on the speed of both belts, the load:

- Moves forward faster than the modular belt
- Moves forward diagonally either to the left or to the right

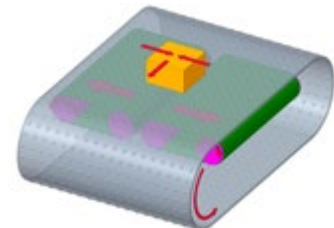


System 4

Two fabric belts are oriented transversely to the modular belt. The spheres of the modular belt are in contact with the fabric belts.

During the movement of the load, depending on the speed of all three belts, the load:

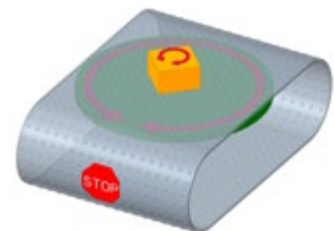
- Is centered in the middle of the modular belt
- Moves forward diagonally either to the left or to the right



System 5

The spheres of the modular belt are in contact with a turning table placed underneath it.


During the movement of the load, the modular belt is stopped and the load is rotated via the movement of the turning table.







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