

esbelt.com



Conveyor belts



## Conveyor Belts in Logistic and Distribution Centers.



The **esbelt** range of conveyor belts for Logistic and Distribution Centers easily meet all the needs of the sector, compliant with the requirements for handling, conveying and classifying goods. The high quality and reliability of our belts translates into optimum performance, guaranteed by numerous companies in the sector.



In modern economies, logistics has become a fundamental part of company management. Successful and accurate product collection management and distribution have meant success for many companies. Consequently, logistics centers are growing ever larger and use a wide range of conveyors inside. They require conveyors that can operate with the most varied range of products and different load volumes and which function with full reliability. They must prevent jams and damage to the conveyed products. All this means that the belts used in these centers have to be of the highest quality and have the following common characteristics:

- Antistatics
- Flame retardant
- Resistance to abrasion
- Silent fabric bottom side for noise reduction
- Dimensional stability, good alignment
- Strong and durable splice performance
- Easy to maintain

**esbelt** belts provide optimum results in all sections of distribution and logistics centers.



Our standard range of belts offers several options for each type of application. This brochure describes the **esbelt** products most commonly used in logistics and distribution centers. There are additional types and they be found in our general catalogue or on our website [www.esbelt.com](http://www.esbelt.com)



#### **ENTRY IN THE CIRCUIT:**

#### **Horizontal conveyors. FEBOR 15NF-19NF**

The most suitable belt is determined on the basis of the product conveyed and the working conditions such as accumulation, stops and starts, lateral loads and the speed of the conveyor.

#### **PRE-ENTRY TO THE CLASSIFIER:**

#### **Inclined conveyors (ascending/descending).**

#### **FEBOR 15NF - ASTER 15QF**

For inclined conveyors, it is necessary to know the degree of slope, as well as the size of the packages and the operating conditions such as moisture, dust, etc. in order to select the correct belt. Different types of cover finishes enable us to meet the whole range of needs in logistics centers. From belts with smooth and low hardness covers for increased grip on moderate inclines to belts with specially embossed covers or profiles, for higher degrees of incline.



### Package IDENTIFICATION FUNCTIONS (labeling, scanner, laser).

- The scanners and labeling zones require antistatic belts with good grip on the cover to prevent the product moving on the belt and thereby ensure correct marking of the goods **ASTER 15QF**
- The laser manages the drop the package has to go on: **FEBOR 22FF**

### CURVED BELTS:

To save space, and when changes of direction or even changes in level are required, curved conveyors are used. At esbelt, the belt developed especially for curved conveyors in logistic centers is the **FEBOR 21NF** or **FEBOR 21Y3F** (same belt with an embossed cover). Its high flexibility permits the production of belts without sections, and a single endless splice. Furthermore, the **FEBOR 21NF/21Y3F** is antistatic, flame-retardant and has high dimensional stability. The FEBOR 21NF/21Y3F provides reliable, fast transfer, as required by product distribution.

At **esbelt** we also produce curved belts in various segments, accurately cutting the different sections so that the loads are evenly distributed.

### INDEXERS / MERGERS:

#### **FEBOR 15NF**

These belts are used for transfer to the main belt but at angles of 30° to 45°, not in the usual perpendicular way. In the case of high speeds, accelerations occur and covers with strong grip are required to obtain precision in the transfer of the goods to the main belt. When various belts working in parallel are used, it is important to keep them all tight at the same time and ensure they have minimum elongation.

It is very important to select the most appropriate belts to avoid jams in the delivery of materials.

### CROSS BELTS SORTER:

#### **FEBOR 19NF-22FF**

The distribution/sorting of goods uses diverters, pushers and alignment systems.

Highly stable, transversally rigid belts with excellent traction and a low friction top cover (fabric or occasionally very smooth hard covers) must be used to guarantee correct transfer/unloading of the product and to avoid damage. Large amounts of goods are moved in logistic centers, so the accumulation of products on the belt is common. Antistatic belts with a low coefficient of friction are required.

When the diverter system involves a conveyor assembled perpendicularly to the main belt, a belt with excellent pulling power and a high grip, embossed cover should be used (**ASTER 15QF, 15G2F, 15W3F**).





## EXIT FROM THE CIRCUIT: Decline conveyors ASTER 15QF

The packages are lowered on decline conveyors by the belts, with a longitudinal pattern on the top cover and excellent grip. Some centers also use slides/chutes or gravity roller conveyors.



## RETURN BELTS: Horizontal conveyors FEBOR 19NF

The goods that have not been classified/distributed are return to the circuit on the return belts, which use **FEBOR 19NF**. The most commonly used belt widths in logistic centers range from 400 mm to 1000 mm wide.



## LIVE ROLLERS CONVEYORS:

### Toptrans Power Transmission Belts

With high quality X-NBR covers, offer high wear resistance, excellent adherence to driven pulleys and idler rollers, coping with high loads elongation.



### Esbelt Polyurethane Round Belts.

Are: adaptable for multi-directional gears, very flexible to overcome small diameters, easily and quickly installed and replaced on site, require low maintenance and reduced downtime. No tensioning mechanism is needed and they withstand sporadic overloads



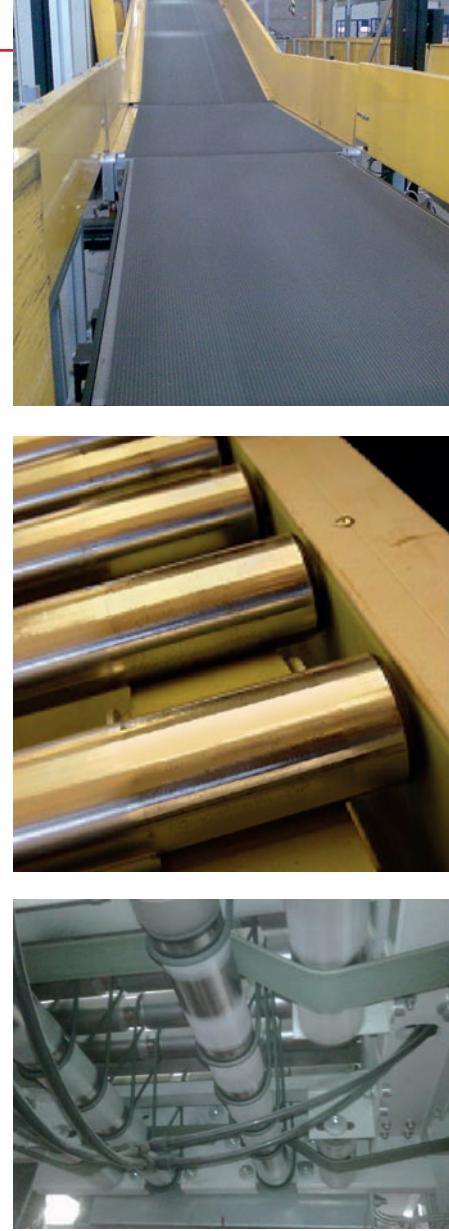
## LOADING/UNLOADING: Telescopic conveyors. FEBOR 19NF - BREDA 20FF

Telescopic conveyors facilitate loading/unloading of lorries/trucks and containers. They are used in most distribution centers. Esbelt belts ensure the reliable conveyance and flow in the loading and unloading process.

Telescopic conveyor's require belts that are dimensionally stable, adaptable to back-flexing, resistant to shock loads and with low coefficient of friction. Excellent tracking performance, abrasion resistance



and splice durability is a must to ensure safe conveyance of a must to ensure safe conveyance of parcels and packages.



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