

MB CONVEYORS SOLUTIONS



FOOD
PHARMACEUTICS



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FDA FOOD- PHARMACEUTICS

MISSION:

CREATE CONVEYORS THAT COMPLY WITH THE REQUIREMENTS OF THE MEDICAL AND PHARMACEUTICAL INDUSTRIES:

- PARTS IN CONTACT WITH THE PRODUCT CONFORMING TO THE FDA REGULATIONS
 - PROTECTION OF THE PRODUCT FROM POSSIBLE ENVIRONMENTAL CONTAMINATIONS ALONG ITS ENTIRE ROUTE
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SOLUTION:

MB CONVEYORS PROPOSES A LINE OF PRODUCTS IN THE “FDA VERSION” CHARACTERIZED BY:

- FOOD-GRADE WHITE POLYURETHANE BELT
- SIDE PANELS COVERED IN AISI 304 STAINLESS STEEL
- POLYCARBONATE COVERS (WHEN THE CONVEYOR IS NOT INSTALLED IN A CLEANROOM) COMPLETE WITH DOORS AND INSPECTION COMPARTMENTS TO FACILITATE THE CLEANING AND/OR QUALITY CONTROL OPERATIONS

These types of conveyors are used for conveying plastic components to be subsequently used in the food and/or pharmaceutical sectors, and are normally installed in a cleanroom.

- **Side panels covered in AISI 304 stainless steel**

All components that come into contact with the product (side panels, hoppers) are made of materials conforming to FDA standards

- **Belt with covers and sometimes slats in food-grade white PU**

The technical data sheet issued by the manufacturer and certifying compliance is available on request



- **Gearmotor unit**

On request, the gearmotor unit can be treated on the surface with USDA-approved white epoxy paint and, especially, equipped with UHI class food-grade synthetic lubricant.



- **Customizing of white or grey plastic components**

Light colours are generally preferred in FDA environments since they are able to provide an immediate image of the degree of quality and cleanliness in the department.

- **An F.D.A. compatible belt must be cleaned using alkaline products and at temperatures not exceeding 55°C.**

Use of denatured alcohol is recommended for all metallic parts

These types of conveyors are designed to be integrated into machinery or packaging lines in food and/or pharmaceutical industries.



○ **Thin profile**

Easily integrated into complex systems thanks to the h 50 mm profile and rollers



○ **Motor under belt**

The configuration with the motor under the belt reduces the width of the conveyor and is ideal for installation inside machinery



○ **FDA customizing**

The food-grade white PU belt conforms to the standards in force and also allows the presence of dirt to be detected immediately

This type of conveyor is used for conveying plastic components which will then be used in the food and/or pharmaceutical sector.

With the addition of dust covers in structured polycarbonate, these conveyors are also suitable for use outside protected environments like cleanrooms.



- **Polycarbonate cover along the entire product route**

The Polycarbonate covers prevent the product from being contaminated by external sources in the surrounding environment.

- **Special loading hopper**

The loading hoppers/compartments are specially designed to allow the product to reach the conveyor without being contaminated by external sources

- **Inspection doors**

The cleaning operations required by the regulations in force in the food/pharmaceutical industries can be easily performed thanks to the inspection doors on the covers

- *The number, size and positions of the inspection doors on the Polycarbonate covers may vary, depending on the customer's specific cleaning and maintenance requirements.*

Ø mm

+ CPT 12 - F.D.A. customized with removable side panels



- This special FDA version with polycarbonate tunnel features a portion with removable profile
- It is an extremely particular solution, specially designed to facilitate cleaning operations in FDA contexts

+ MB TPS - F.D.A. customized



- The photo alongside illustrates a mod. MB conveyor with flat upper section, complete with a large hopper made of AISI 304 stainless steel.
- Solutions with an upper section are proposed when the product must be unloaded at a distant point.
- Note that the polycarbonate cover that protects the hopper is complete with an inspection door.

+ N-CPR - F.D.A .customized.



- The conveyor on the left has been designed for collecting product from under an IMM and conveying it in an FDA environment.
- Note the hopper for collecting product as it drops from the mould. It is made of AISI 304 stainless steel and has a pull-out drawer for quality control.
- The entire route along which the product moves along the conveyor is protected by a polycarbonate cover.

+ F.D.A.-customized conveying system



- The photo alongside shows a conveying unit designed for pharmaceutical products. It consists of a mod. N-CPR conveyor to be installed longitudinally inside the IMM so as to collect product and convey it to the vertical elevator with double chute.
- The entire route covered by the product is protected by Polycarbonate covers, while all the hoppers and chutes are made of AISI 304 stainless steel.
- The operating logic includes counting the moulded items to be stored inside two separate containers.

Elevators are widely used for collecting and lifting components of products for food and/or pharmaceutical use. In such cases, MB proposes a standard version of its FDA-customized EV600- EV800 -EV1000 models:



○ **Polycarbonate covers**

The entire elevator section outside the hopper is protected by Polycarbonate dust covers

○ **Covered side panels**

The side panels of the of the elevator are entirely covered in AISI 304 stainless steel

○ **Loading hopper and unloading chute**

The loading hopper is made of AISI 304 stainless steel and can be covered, if required, to prevent the parts from being damaged

○ **Hopper cover**

Polycarbonate cover complete with handles to protect the product from contamination by external sources

○ *FDA-customization is available as a standard feature on all MB elevator models: EV 600 – 800 – 1000 and special elevators*

+ EV - Detail of hopper cover



- The loading hopper cover is supplied as part of the standard equipment on elevators for food and pharmaceutical products, where it protects these latter from contamination by external sources
- The standard cover is complete with handles to make it easier to open when product is being loaded. The cover can also be customized by fitting it with gas springs, magnets and other accessories as required by the customer.

+ EV + PA - F.D.A. CUSTOMIZED



- The photo alongside illustrates a system formed by a mod. EV conveyor fitted with a small mod. PA conveyor under the outlet, which acts as a distributor.
- This solution is proposed when the product must be unloaded from two different points at a certain distance from each other (such as two containers, two due directional hoppers, etc., etc.).

+ Conveying system for FDA environments



- The photo alongside illustrates a system for collecting and elevating caps in an FDA environment. It consists of an under-IMM mod. CP conveyor coupled to a mod. EV 600 elevator, both of which FDA-customized.
- The cover of the loading hopper of the elevator was specially designed for coupling to the chute of the CP so as to protect the product throughout its entire route, even when switching from one conveyor to the other
- Note how a special pull-out drawer was included to allow the conveyed product to be subjected to quality control operations.

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