

TECHNOLOGY FOR **MATERIAL TRANSPORTATION**

Conveyor systems



CONVEY
ORS

Passion to create, Excellence to serve

ABOUT US

MARCOVIL



Founded in 1987 and counting today with a covered production area of more than 10.000 m², Marcovil is a technology based company in the field of mechanical engineering, dedicated to the design, manufacturing and commissioning of machinery and turnkey solutions to improve efficiency of the Industry and its working conditions.

Combining an innovative spirit with a strong knowledge in several fields of mechanical engineering, with the most advanced technology, **Marcovil** is

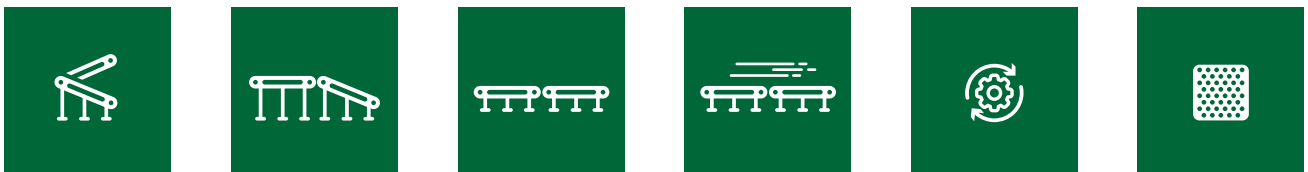
recognized for its strong technological capability and autonomy which translates to a range of machines and industrial solutions of high reliability and precision, undergoing a continuous process of technological improvement.

OUR PRODUCTS

CONVEYOR SYSTEMS

Conveyors play a highly relevant role in the transportation of materials between the different equipment's that form an industrial line.

Due to the different configurations of each line, as well as the nature of each material and workloads, **MARCOVIL** designs and produces integrally a wide range of conveyors capable of providing an efficient and effective response to different requirements.



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**Solution Engineering
and Production**

FLAT CONVEYORS

Robust equipment, within the range of heavy-duty equipment. With flat transport station, ideal for transporting goods of different sizes. Suitable to be integrated into existing lines in order to automatize the entire production line.



MTL MODEL



MTL MODEL



TECHNICAL DATA

/// **Transmission:** Attrition on rolls

/// **Structure:** High resistance profile developed by **MARCOVIL**

/// **Ø Driving Drum:** 239 mm | Includes 10 mm thick rubber coating and Bearings UCF 213.
Anti-skidding system, auto-centering of the screen and conical shaft fixation

/// **Ø Free Drum:** 219 mm | Bearings UCF 213
Anti-skidding system, auto-centering of the screen and conical shaft fixation

/// **Screens:** Anti Oil, Anti Abrasion, according to the material

/// **Ø Top Rolls:** Multiple measures and distances according to the chosen solution

/// **Ø Lower Rolls:** Multiple measures and distances according to the chosen solution

/// **Screen Width:** 600 mm up to 2.000 mm standard
[Note: on some models, it is necessary to adapt the minimum and maximum width as indicated]

/// **Maximum Slope | Standard:** 30°

/// **Screen Speed | Standard:** Up to 1 m/s

/// **Safety Devices:** Included

STATION CONVEYORS

Highly robust equipment, with “U” or “V” transport station. Ideal for transporting material over long distances and material of smaller granulometry and compounds of organic origin.



MTU MODEL



MTU MODEL



TECHNICAL DATA

/// **Transmission:** Friction in rollers

/// **Structure:** High resistance profile developed by **MARCOVIL**

/// **Ø Driving Drum:** 343 mm | Includes 10 mm thick rubber coating and Bearings UCF 214
Anti-skidding system, auto-centering of the screen and conical shaft fixation

/// **Ø Free Drum:** 323 mm | Bearings UCT 214
Anti-skidding system, auto-centering of the screen and conical shaft fixation

/// **Screens:** Anti Oil, Anti Abrasion, according to the material

/// **Ø Top Rolls:** Multiple measures and distances according to the chosen solution

/// **Ø Lower Rolls:** Multiple measures and distances according to the chosen solution

/// **Screen Width:** 600 mm up to 2.000 mm standard
[Note: on some models, it is necessary to adapt the minimum and maximum width as indicated]

/// **Maximum Slope | Standard:** 30°

/// **Screen Speed | Standard:** Up to 1 m/s

/// **Safety Devices:** Included



SORTING CONVEYORS

Equipment based on metal plate and smaller sides, ideal for an easy separation and sorting of material and goods to be transported. Variable speed and width depending on the needs and specificities of usage, suitable to be installed in closed sorting booths.



MTCH MODEL

MTCH MODEL



TECHNICAL DATA

/// **Transmission:** Plate Friction | Slide type system

/// **Structure:** High strength profile developed by **MARCOVIL**

/// **Ø Driving Drum:** Anti-skidding system, auto-centering of the screen and conical shaft fixation

/// **Ø Free Drum:** Anti-skidding system, auto-centering of the screen and conical shaft fixation

/// **Screens:** Anti Oil, Anti Abrasion, according to the material

/// **Sliding Plate:** The screen slides in polished galvanized plate

/// **Ø Lower Rolls:** Multiple measures and distances according to the chosen solution

/// **Screen Width:** 600 mm up to 2.000 mm standard

[Note: on some models, it is necessary to adapt the minimum and maximum width as indicated]

/// **Maximum Slope | Standard:** 0°

/// **Screen Speed | Standard:** Up to 0,6 m/s

/// **Safety Devices:** Included

ACCELERATION CONVEYORS

Equipment with larger width, of variable length, with rectified drums for high speed. Ideal to be assembled together with other optical detection equipment or separation by induction of electromagnetic field.



MTA MODEL



MTA MODEL



TECHNICAL DATA

/// **Transmission:** Plate Friction | Slide type system

/// **Structure:** High resistance profile in folded sheet metal developed by **MARCOVIL**

/// **Ø Driving Drum:** 239 mm | Includes 10 mm thick rubber coating
Anti-skidding system, auto-centering of the screen and conical shaft fixation

/// **Ø Free Drum:** 219 mm | Anti-skidding system, auto-centering of the screen and conical shaft fixation

/// **Screen | Standard:** E 8/2 U0/V10H-M-SE-Black with Polyurethane impregnation. Brand: Forbo Siegling

/// **Sliding Plate:** The screen slides in polished galvanized plate

/// **Ø Lower Rolls:** Multiple measures and distances according to the chosen solution

/// **Screen Width:** 1.000 mm, 1.200 mm, 1.400 mm, 1.600 mm, 2.000 mm, 2.500 mm, 3.000 mm

/// **Maximum Slope | Standard:** 0°

/// **Screen Speed | Standard:** Up to 3 m/s

/// **Safety Devices:** Included



CHAIN CONVEYORS

Highly robust equipment, of reinforced construction, with chain transmission. Ideal for the start of production lines with the need to vary the elevation angle of the goods to be transported, ideal for greater transport angles and for heavy goods with greater granulometry. With sheet metal or rubber screen.



MTCR/B MODEL



MTCR/B MODEL | RUBBER SCREEN



TECHNICAL DATA

/// **Transmission:** Chains

/// **Structure:** High resistance profile developed by **MARCOVIL**

/// **Ø Driving Drum:** Anti-skidding system, self-centering of the screen and tapered shaft fixation

/// **Ø Free Drum:** Anti-skidding system, self-centering of the screen and tapered shaft fixation

/// **Screens:** Anti Oil, Anti Abrasion, according to the material

/// **Chain:** Type M112 with pitch of 160

/// **Chain lubrication:** Included

/// **Screen Width:** 600 mm up to 2.000 mm standard

[Note: on some models, it is necessary to adapt the minimum and maximum width as indicated]

/// **Maximum Slope | Standard:** 40°

/// **Screen Speed | Standard:** Up to 0,7 m/s

/// **Safety Devices:** Included



CHAIN CONVEYORS

Highly robust equipment, of reinforced construction, with chain transmission. Ideal for the start of production lines with the need to vary the elevation angle of the goods to be transported, ideal for greater transport angles and for heavy goods with greater granulometry. With sheet metal or rubber screen.



MTCR/M MODEL



MTCR/M MODEL | METALLIC SCREEN



TECHNICAL DATA

/// **Transmission:** Chains

/// **Structure:** High strength profile developed by **MARCOVIL**

/// **Ø Driving Drum:** Anti-skidding system, auto-centering of the screen and conical shaft fixation

/// **Ø Free Drum:** Anti-skidding system, auto-centering of the screen and conical shaft fixation

/// **Screens:** Anti Oil, Anti Abrasion, according to the material

/// **Chain:** Type M112 with pitch of 160

/// **Chain lubrication:** Included

/// **Screen Width:** 600 mm up to 2.000 mm standard

[Note: on some models, it is necessary to adapt the minimum and maximum width as indicated]

/// **Maximum Slope | Standard:** 40°

/// **Screen Speed | Standard:** Up to 0,7 m/s

/// **Safety Devices:** Included



FLEXIBLE SOLUTIONS



INTEGRATION WITH EXISTING SYSTEMS



FLEXIBILITY / INTEGRATION WITH EXISTING SYSTEMS



INSTALLATION IN DIFFICULT ACCESS LOCATIONS

/// Possibility of installation and adaptation in places difficult to access, through various solutions (e.g. use of suspension cables).

CUSTOMIZED SOLUTIONS

/// Customized solutions adapted to the needs and specificities of the customer (e.g. reversible screens).



CONSTRUCTION DETAILS



PROTECTION OF MOVING ELEMENTS



PROTECTION OF MOVING ELEMENTS



MOTOR PROTECTION

BEARINGS AND BELTS PROTECTION



RECEPTION PLATES



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