

SEPARATION OF IRON METALS BY THE PERMANENT MAGNETIC OVERBELT (R-OMP)

INTRODUCTION

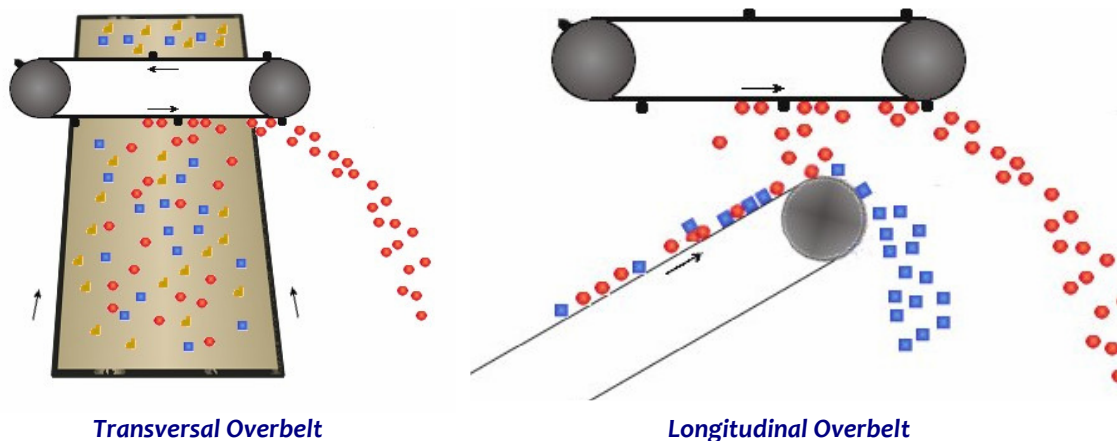
Both iron and non-iron metals make up one of the groups of materials to have a greater presence in waste reduction, since they involve a great worth. Iron metals are the highest percentage elements and are the most easily captured by magnetic fields. Aware of the serious environmental problem, **REGULATOR-CETRISA** has developed a complete line of separation equipment: the **Permanent Magnetic Overbelt (R-OMP)** and the *Electromagnetic Overbelt (R-SKM)*, in order to be able to separate, recycle and recover iron metals.

PHYSICAL PRINCIPLE

The physical principle for the operation of the **Permanent Magnetic Overbelt (R-OMP)** is based on a magnetic field generated by joining highly powerful magnets. This way, iron material that crosses the magnetic field will be attracted towards the magnetic block and therefore separated from the rest of the materials. The magnetic group does not involve any energy consumption.

The magnetic block forms the central part of a small conveyor belt. This belt has plugs or locks to allow the continuous evacuation of any captured iron material. The tightening and centering of the belt are done on the free drum.

The Overband is located on the conveyor where the processed material circulates. It can be placed here in either transversal or longitudinal direction. In the transversal direction, the Overband can be located at any point along the conveyor.



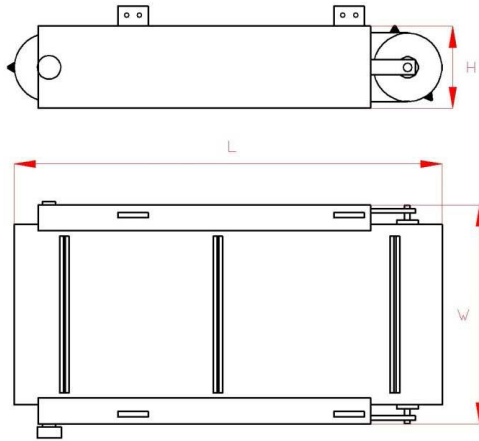
When the location is longitudinal, the installation should be done on the head roller of the conveyor to take advantage of the material's parabolic path.

REGULATOR-CETRISA offers a wide range of equipment whose magnetic disposition and type of magnets used are designed and optimized (3D design) to provide maximum magnetic power.

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The **Permanent Magnetic Overbelt (R-OMP)** is organized by families, according to measurements and magnetic magnitudes. The basic measurements of each family are shown in the following table:



| EQUIPMENT | W | H | L |
|-----------|------|-----|------|
| R-OMP 21- | 865 | 380 | 800 |
| R-OMP 24- | 1015 | 380 | 950 |
| R-OMP 27- | 1115 | 380 | 1050 |
| R-OMP 33- | 1365 | 380 | 1300 |
| R-OMP 40- | 1365 | 460 | 1300 |

*Standard measurements. Other dimensions are also available.
Contact with REGULATOR-CETRISA for additional information.*

Basic outline and measurements of the R-OMP equipments

REGULATOR-CETRISA uses all of its experience to determine the ideal equipment for every application. Besides its own experience from innumerable applications, the technical department evaluates all the necessary parameters, such as: flow, density, humidity, aggregate grading, etc.

REGULATOR-CETRISA offers the possibility of testing materials in its own facilities, where the client can verify the effective separation of the metals. This way, we can ensure satisfactory results.

REGULATOR-CETRISA, thanks to its continued investment in R&D&I, offers the best technology for integrating equipment and systems into its processes and Complete Turnkey Installations.

For further information:

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