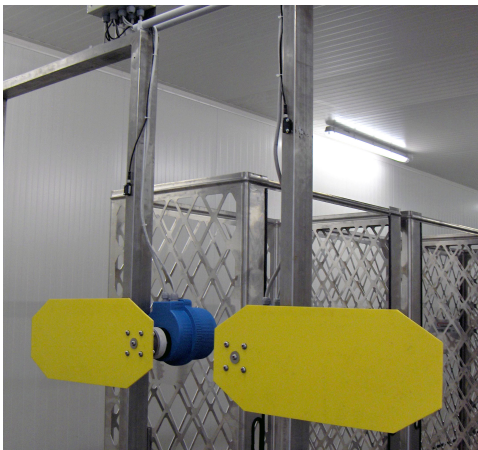## STORAGE REMSIAR

### Automatic storage and tracking system

#### MACHINE DESCRIPTION

The automatic storage and tracking system **REMSIAR** allow a **FIFO** based management of the trolleys used for handling and storage of **Hazardous materials**. The system is based on a set of tracks each having a **LOADING CONTROL** as well as an **AUTOMATED UNLOADING SYSTEM**. The system can be interfaced with the **RADIOACTIVITY** detector to prevent and detect radioactive contaminated materials.





#### WORKING LOGIC FOR AUTOMATIC STORAGE AND TRACKING SYSTEMS REMSIAR

The system allows to manage alternatively the loading and unloading process of the refrigerated storage monitoring the stroage time of every single trolley.

Trolleys are numbered and trackable, each of them is associated progressively to a separate batch as well as independently numbered.

During the loading process the gates of the tracks open in sequence. The loading is linked to the radioactivity detector which may stop the loading process and set the system in **ALARM**. The completed load is verified by an optical sensor in the track. Once the trolley has been loaded it shall be manually confirmed by the operator before proceeding with the following load.

It is possible to control the loading **BATCH** associated to a set of trolleys. Unloading is provided by a hoist for each track. To proceed with unloading it is necessary to release the mechanical stop lock.

The sequence of activation of the electric hoists controls the tracking of the trolleys. The hoist will pull the trolley until it is out of the track and the next is in position for the following extraction.

The supervising system will update the mapping of the trolleys and their position as well as the storage time. Trolleys are equipped with an automatic linking device that allow forming a "train" of trolley to be moved toward the exit together with a single drive. The size of the trolleys, number and length of tracks is customized upon customer needs.

#### Materiali di Costruzione:
**Trolleys: Aluminum Anticorodal**
**Rollers: St.St. AISI304 / Vulkollan**

#### MAIN FEATURES FOR AUTOMATIC STORAGE AND TRACKING SYSTEMS REMSIAR
1. HIGH RADIOACTIVITY DETECTION CAPACITY
2. COMPLETELY AUTOMATIC MANAGEMENT OF LOADING AND UNLOADINGù
3. TRACKING OF THE TROLLEY SEQUENCE AND BATCH
4. ROBUST AND LIGHT CONSTRUCTION OF THE TROLLEYS MADE OF ALUMINIUM
5. POSSIBILITY OF INTERFACE WITH THE COMPANY DATAMANAGEMENT SYSTEM
6. ACTIVITY REPORTING

**n.b.: the manufacturer may modify some dimensions or sizes without prior information**

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