

# TFRC

## AUTOMATIC LOADING AND UNLOADING SYSTEM



The **TFRC system is the best solution** to load and unload products on racks, trolleys or trees. It can load and unload **very high** trees, trolleys, racks and frames, **up to 5.8 meters** of height, handled by AGVs/LGVs or by overhead rail system. During the unloading phase it's also possible to unload one smoking stick at a time in order to feed the packaging or peeling lines.

The TFRC loading system it's **connectable** with up to **3 automatic hanging machines** for products on smoking sticks.

Thanks to the special loading procedure and the ability to handle multiple racks it's possible to have a continuous process even while replacing a full rack with an empty one. The management of the accelerations allows to obtain **high speeds** with very limited oscillations of the products, warranting the highest productivity of **up to 15 smoking sticks/minute**.

The reduced size of the loading arms allows the loading capacity of the smoking sticks and racks to be fully exploited.

The TFRC system is able to handle **up to 4 racks, trolleys or trees** per time.

**MACHINES AND PLANTS**  
FOR FOOD INDUSTRY



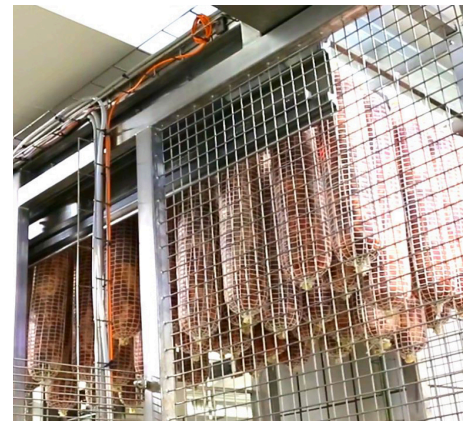
Thanks to the **advanced software**, it is possible to recognize the characteristics of trolleys, racks and trees, so as to adapt the system to equipment that are not particularly precise, because not made for automation.

TFRC is characterized by a **high precision** of movements that, in synergy with the self-adaptive software, allow it to manage the insertion of smoking sticks even in the presence of very limited dimensional tolerances.

TFRC is also able to handle racks, trolleys or trees having different heights or lengths thanks to its flexibility and adaptability. It's possible to select on the HMI which rack the TFRC is going to work with and, thanks to a laser scanning, the system will be able to check the compatibility between the selected rack and the one inserted in the loading cage.

**TFRC can simultaneously process up to 3 different products** coming from semi-automatic hanging devices, from automatic hanging machines, or taken from frames coming from production areas where manual loading is limited to the easiest level.

The special execution together with the use of innovative safety devices allow the system to be installed even in production facilities with limited space, without necessarily requiring the replacement of trees or trolleys.



**TFRC is internationally patented.**