



Vegetable washing and calibration machine

For a food corporate, we have designed and built a machine for washing vegetables.

The machine has been added in the production process as an "entrance door" of the vegetables into the production plant.

The vegetables loaded on the line reach our machine where, along a roller conveyor, they undergo a **process of removal of dirt and washing**, to then be unloaded on the subsequent roller conveyors of the line and access the dedicated production areas.

Machine description

The machine - which can work both automatically and manually - consists of:

- a **load-bearing structure in AISI 304 stainless steel** bolted to the ground;
- a **roller conveyor with alternating fixed and idle rollers with electronically variable wheelbase** for the transport different types of vegetables. The roller conveyor is 6m x 1.5m, and placed at about 2m to the ground;
- a **washing system** for vegetables;
- an **Idrascreen filtering and water purification system** (to reuse the water used for washing), complete with a **water collection tank**.

The vegetable washing system, the collection tank and the filtering system create a "closed system" that allows a considerable saving of water.

Additionally the supplied HMI software allows to monitor the water level so that it can be automatically replenished if necessary.

Dedicated HMI Software

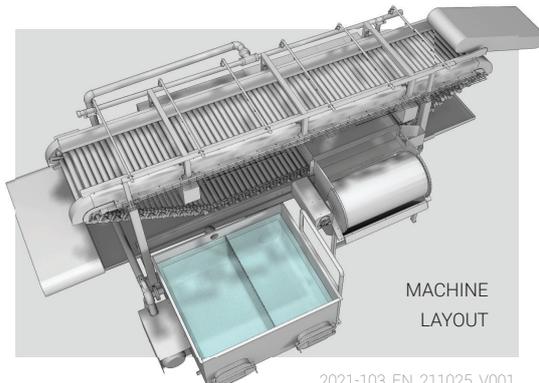
The machine is equipped with an HMI installed on the General Panel, which allows its total management (regulation and use).

Through a touch-screen display it is also possible to view and modify all machine parameters and, if necessary, to control the functions when the manual mode is activated.

Safety

The machine is **IP69K** certified, while the electrical panel is **IP67** certified.

In conditions that comply with the "instructions for correct use", vibrations and noise emissions are not such as to cause dangerous situations for operators.



2021-103_EN_211025_V001

KEY FEATURES

- ✓ **Fully integrated** with the pre-existing plant layout;
- ✓ **Full-Automatic** processing;
- ✓ Production capacity: **18 tons / hour**;
- ✓ Complies with **the highest safety standards**;
- ✓ **Dedicated HMI software** to control and management of the machine;
- ✓ **Designed to support numerous types of vegetables**, of different size and shape;
- ✓ **Precision washing system** through a process of controlling the size and rotation of the vegetable.

WATCH MORE ABOUT TAIPRORA



<https://youtu.be/DqIBPgTLy1I>

Follow **Taiprora** on:



TAIPRORA
Software & Automation Engineering

Smart Solutions for Smart Factories

AMH • Software • Automation Systems

www.taiprora.it

