

**VEGETABLES / TUBERS**

**TECHNOLOGY FOR  
PROCESSING  
SORTING  
PACKING**



**BULLTEC**

## BULLTEC, INNOVATION AND EXPERTISE AT YOUR SERVICE

BULLTEC represents a **young and dynamic** entity with **twenty years of experience** behind it.

We are manufacturer specialized in technological solutions for the sorting and processing of your vegetables and tubers.

We put **innovation, research, and continuous development** at the center of our work with a primary focus on the **real needs of the customer**.

## RESEARCH AND DEVELOPMENT FOR THE PROCESSING AND SORTING OF YOUR VEGETABLES AND TUBERS

The beating heart of Bulltec: **the sorting of your vegetables and tubers**.

Our solutions allow you to **sort by size** (length and diameter) through specific optical sensors or alternatively **sort by weight**.

Both solutions can be easily installed **on the same line**, providing you with a wide range of possibilities of use.

You will be able to **diversify the processes** meeting the requirements of your customers.

## CONTACTS

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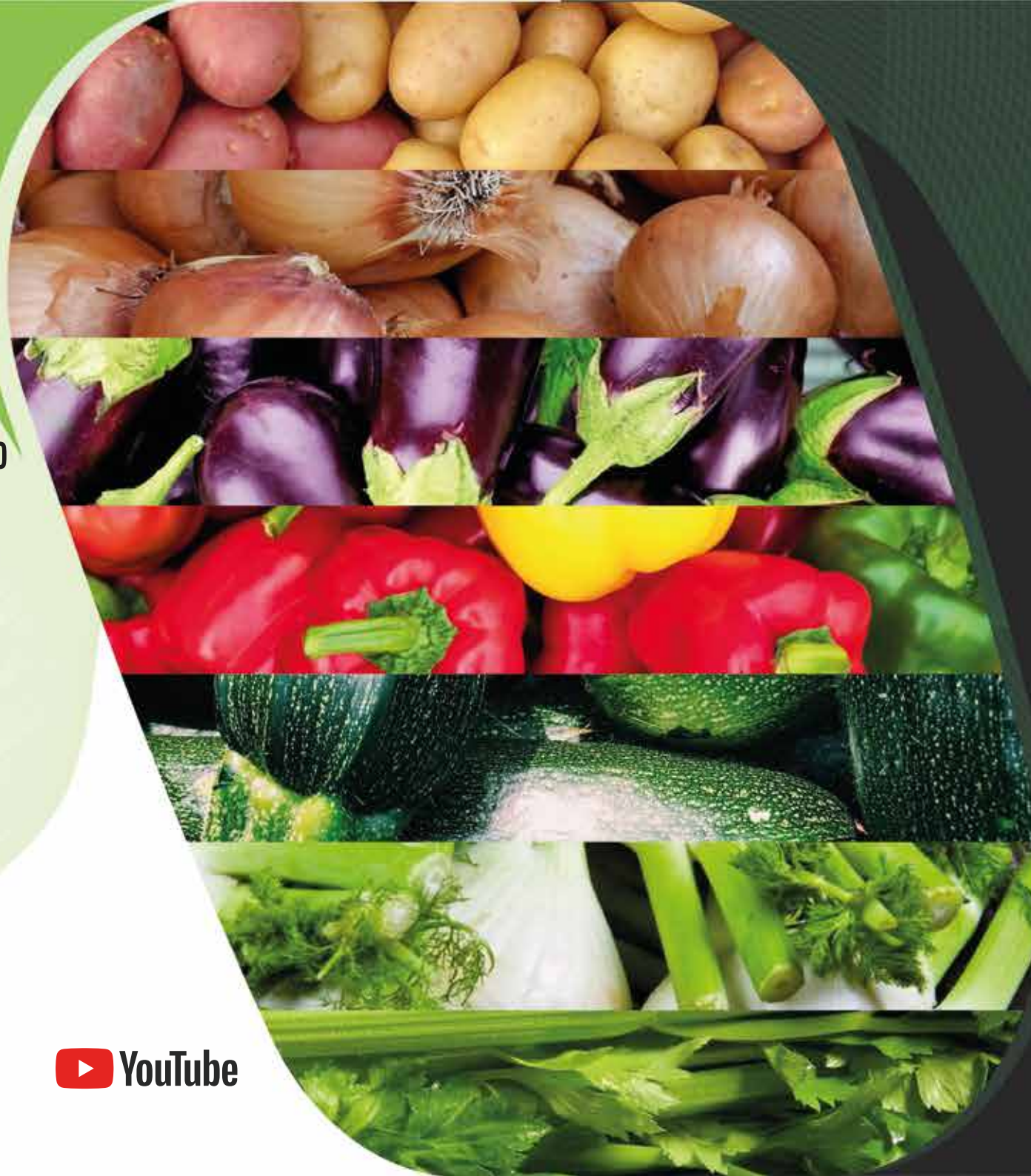
# EFFICIENCY

# VERSATILITY

# SIMPLICITY

We design technical solutions to constantly meet the needs of both small and medium-large producers.

Sorting machines can be diversified by hourly production and by type of caliber: our technicians will be able to shape the solution that best fits the customer's needs.







# COMPLETE LINES FOR THE PROCESSING, SORTING AND PACKING OF YOUR VEGATABLES AND TUBERS

## A TEAM OF SPECIALISTS

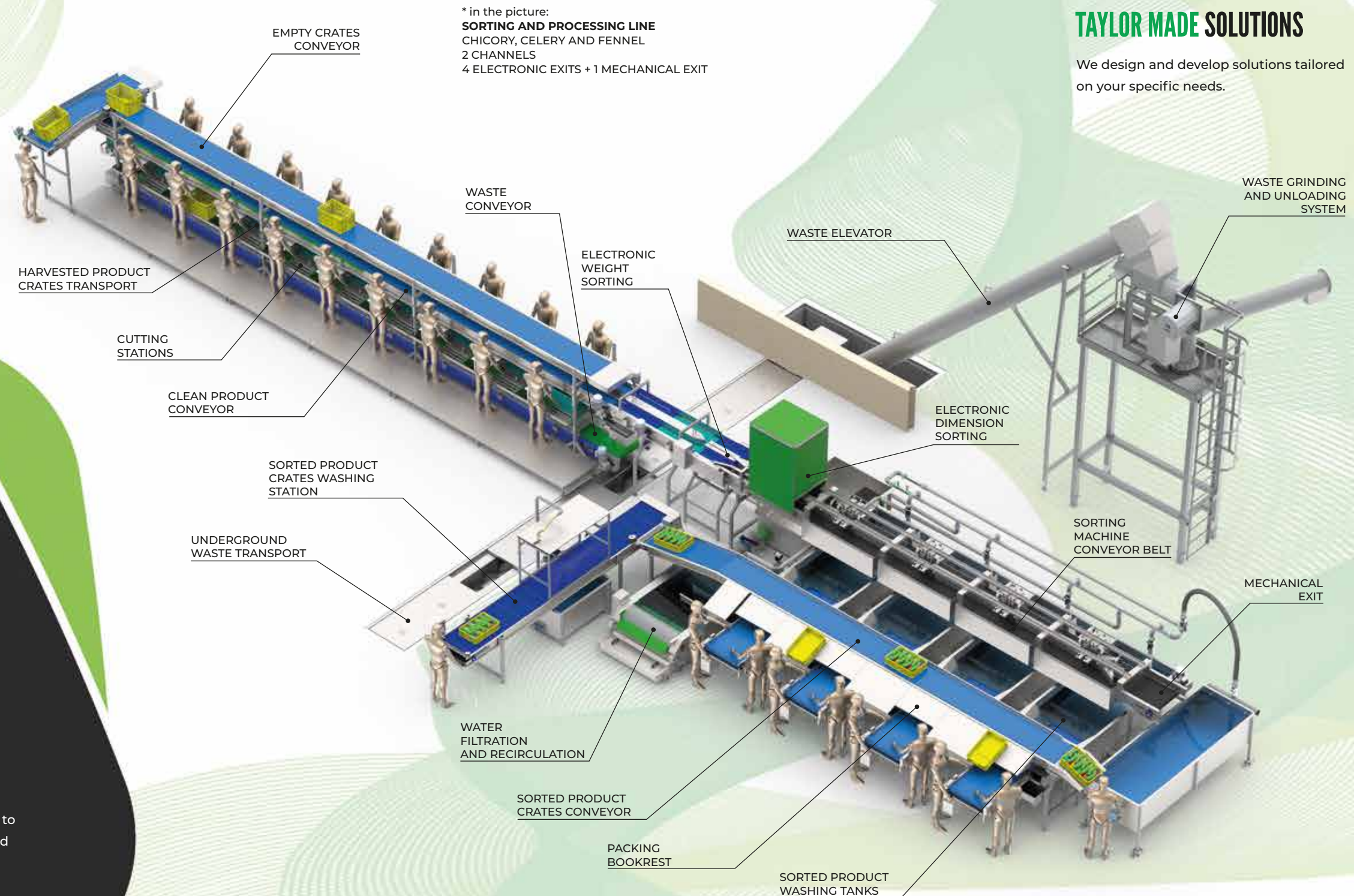
A team of highly experienced professionals at your complete service. We understand the needs of our customers and we work by your side to always find the best solution.

## RESEARCH, DEVELOPMENT AND INNOVATION

BULLTEC puts at the center of its work the constant research of cutting-edge technological solutions to allow you to reach the best quality standards.

## DEDICATED SOFTWARE

Each software is developed in-house and will allow you to obtain the maximum efficiency of the system combined with a great user-friendly usability.



## TAYLOR MADE SOLUTIONS

We design and develop solutions tailored on your specific needs.



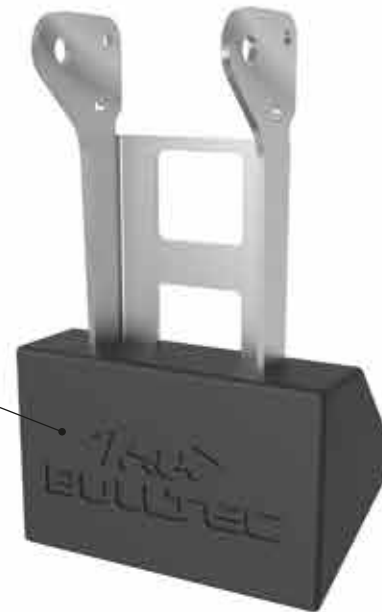


## THE ADVANTAGES

- ✓ Processing of **fruits with different characteristics** (round, oblong, large, small) on the same line
- ✓ **Maximum delicacy** in the handling and ejection of the fruit from the conveyor belt
- ✓ Possibility of **processing diversification**. Sort by dimension and weight on the same line
- ✓ **Maximum simplicity** in the line usage and in the setting up of gauges and recipes

### 3 HARDNESS GRADES

- ✓ HARD
- ✓ MEDIUM
- ✓ SOFT



# SPECIALISTS OF VEGETABLES SORTING A NEW APPROACH

## PATENTED SYSTEM OF VISION, TRANSPORT AND EJECTION

### CONVEYOR BELT TECHNOLOGY

The transport of the product is entrusted to a conveyor belt. This allows you to depend on a system based on a simplified mechanics and easier to manage than traditional cup sorting machine.

### PADDLE EJECTING SYSTEM

Pneumatic paddle ejection system independent from the belt. Paddle cushion available in different grades of hardness to never damage the product.



### APPLICATION VERSATILITY

Possibility of different processing on the same line, by weight or by size, on products of very different sizes.



### SIMPLE MECHANICS

The conveyor belt for the product transport combined to adjustable pneumatic actuators for the ejection will allow you to reduce, simplify and better manage maintenance operations.



### EFFICIENT SORTING

Thanks to the **DEDICATED SOFTWARE** developed in-house by **BULLTEC** we can offer a dimension sorting of millimeter accuracy and weight sorting with gram accuracy.



### REDUCED COSTS

The mix of our mechanics and electronic significantly reduces production and maintenance costs on the line.

## INDUSTRY 4.0

**BULLTEC** processing lines meet the **INDUSTRY 4.0** requirements, allowing you to enjoy all the advantages offered in terms of connectivity and data analysis.

# VEGETABLES SORTING BY **DIMENSION**, **WEIGHT** AND **COLOR** IN THE SAME LINE

## CUSTOMIZE YOUR PLANT

- ✔ Type of sorting (size, weight or both)
- ✔ Hourly and daily production
- ✔ Channels number
- ✔ Number and position of exits
- ✔ Length and width of the belt

MECHANICAL  
EXIT

PNEUMATIC  
EJECTOR

ELECTRONIC  
DIMENSION  
SORTING SYSTEM

CONVEYOR  
BELT TRANSPORT  
SYSTEM

ELECTRONIC  
WEIGHT  
SORTING SYSTEM



**THE CUSTOMER**  
**AT THE CENTER**  
**OF EACH PROJECT**

## WE SATISFY YOUR REAL NEEDS

We realize the line considering your actual production needs: hourly production, daily production, type and size of processed products, number of channels, number of exits and number of calibers.

\* In the picture:  
**VEGETABLES SORTING MACHINE** - 1 CHANNEL  
10 ELECTRONIC EXITS + 1 MECHANICAL EXIT



# TUBERS SORTING LINE

## MAXIMUM **VERSATILITY** OF USE

WATCH THE VIDEO



MECHANICAL  
EXIT

PNEUMATIC  
EJECTORS

ELECTRONIC  
DIMENSION  
SORTING SYSTEM

CONVEYOR BELT  
TRANSPORT SYSTEM

BRUSHING  
AND SINGULATION

MANUAL QUALITY  
SELECTION

MACHANICAL  
SMALL FRUITS  
REMOVAL

ELEVATOR  
CONVEYOR

INFEED  
HOPPER

SORTED  
PRODUCT  
EXITS

### THE SOLUTION FOR TUBERS PRODUCERS

#### PROCESSING AND SORTING

A simple, functional, and reliable mechanics. The conveyor belt is the most practical and efficient way to manage the potato and onion sorting phase, even in wet conditions or with residues of earth, sand, or stones. Lean and fast maintenance.



\* in the picture:  
**TUBERS SORTING LINE - 2 CHANNELS**  
6 ELECTRONIC EXITS + 1 MECHANICAL EXIT

MANUAL  
INFEED  
CONVEYOR





# FENNEL SORTING LINE

## FENNEL - A BULLTEC PATENT

A project dedicated to the weight sorting of fennel.

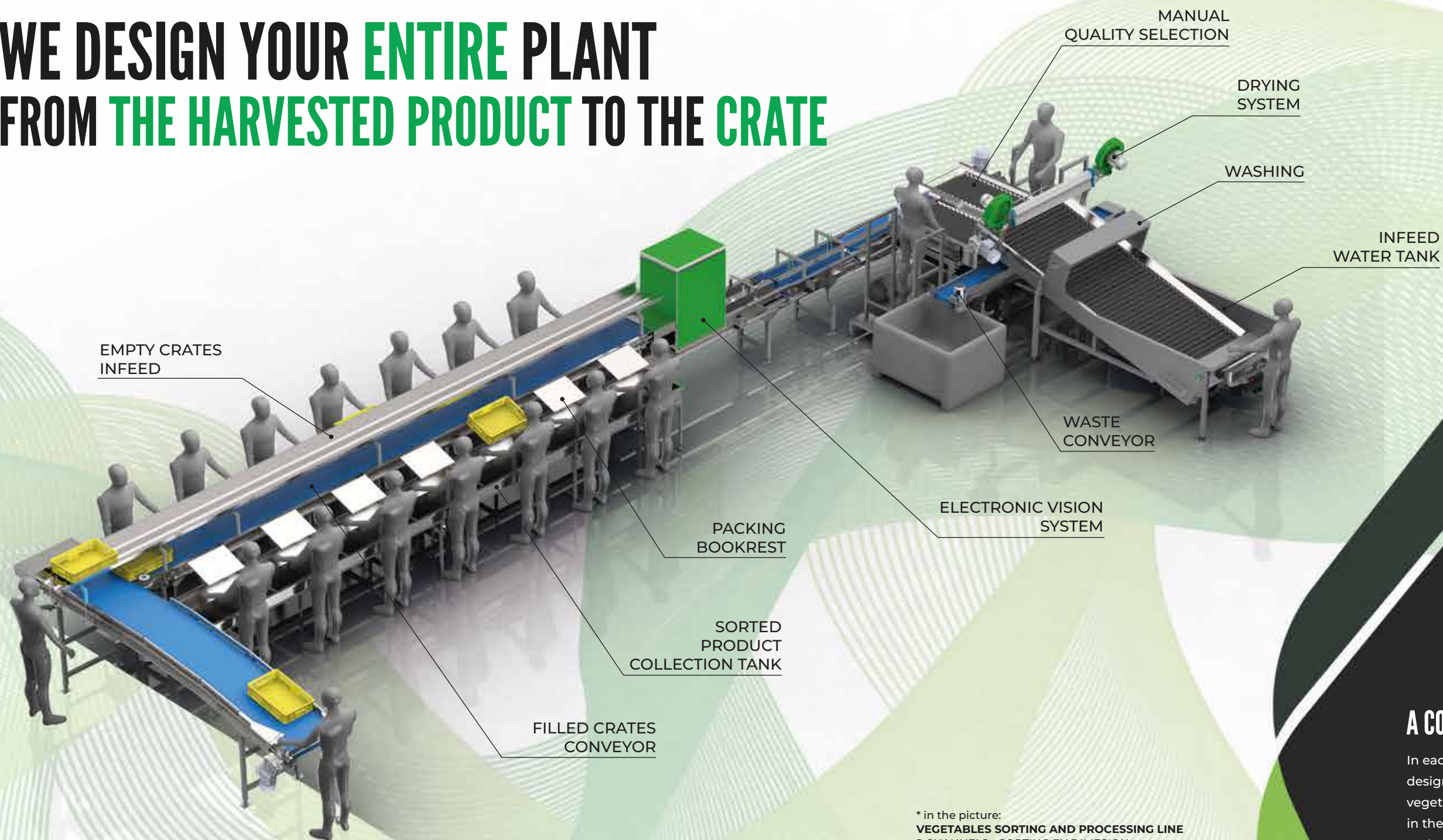
Conveyor system with traction belt for **greater resistance to dirt and to corrosion**. Perfect for productions where water, earth and mud are present. **Maintenance requirements reduced to the minimum level.**

WATCH THE VIDEO





# WE DESIGN YOUR **ENTIRE PLANT** FROM **THE HARVESTED PRODUCT** TO THE **CRATE**



\* in the picture:  
**VEGETABLES SORTING AND PROCESSING LINE**  
2 CHANNELS - SORTING BY DIMENSION  
PEPPERS, ZUCCHINI, EGGPLANTS  
6 ELECTRONIC EXITS + 1 MECHANICAL EXITS

**TWENTY-YEAR**  
**EXPERIENCE**  
**WITH VEGETABLES**

## A COMPLETE PROJECT FROM A TO Z

In each project, around our sorting machines, we design the entire treatment plant for your vegetables. Thanks to twenty years of experience in the horticultural industry we are able to identify and satisfy every processing need.



# CLUSTER FRUITS CONFIGURATION

WASTE  
CONVEYOR

ELECTRICAL CABINET  
WITH TOUCH PANEL

SINGLE CHERRY  
CONVEYOR

PRE-LOADED TRAYS  
LOADING CONVEYOR

EMPTY TRAYS  
LOADING CONVEYOR

WEIGHTED  
COMBINATION  
CONVEYOR

TRAYS MANUAL  
PACKING  
CONVEYOR

LOADING  
CONVEYORS SET

SECOND QUALITY  
CONVEYOR

HARVESTED  
PRODUCT CRATES  
TRANSPORT

WEIGHT DETECTION  
CONVEYORS SET

ROTATING  
TABLE

## GUARANTEED MINIMUM WEIGHT TRAYS PROCESSING LINE - THE NEW BULLTEC SOLUTION

A NEW SOLUTION by BULLTEC for the packing trays/baskets with GUARANTEED MINIMUM WEIGHT.

Thanks to the conveyor belt technology combined with a battery of several load cells, we are able to achieve the maximum optimization of weight combinations while minimizing excesses.

At the same time, the line configuration allows to keep the trays packing conveyor constantly feeded, for a continuous processing, reducing downtime to a minimum.

The last manual phase will also allow you to obtain the best configuration for each tray.

A new approach that guarantees MAXIMUM VERSATILITY of use in the horticultural field.

**INNOVATION**

**VERSATILITY**

**EFFICIENCY**

## 2 DIFFERENT CONFIGURATION



CONFIGURATION FOR VEGETABLES

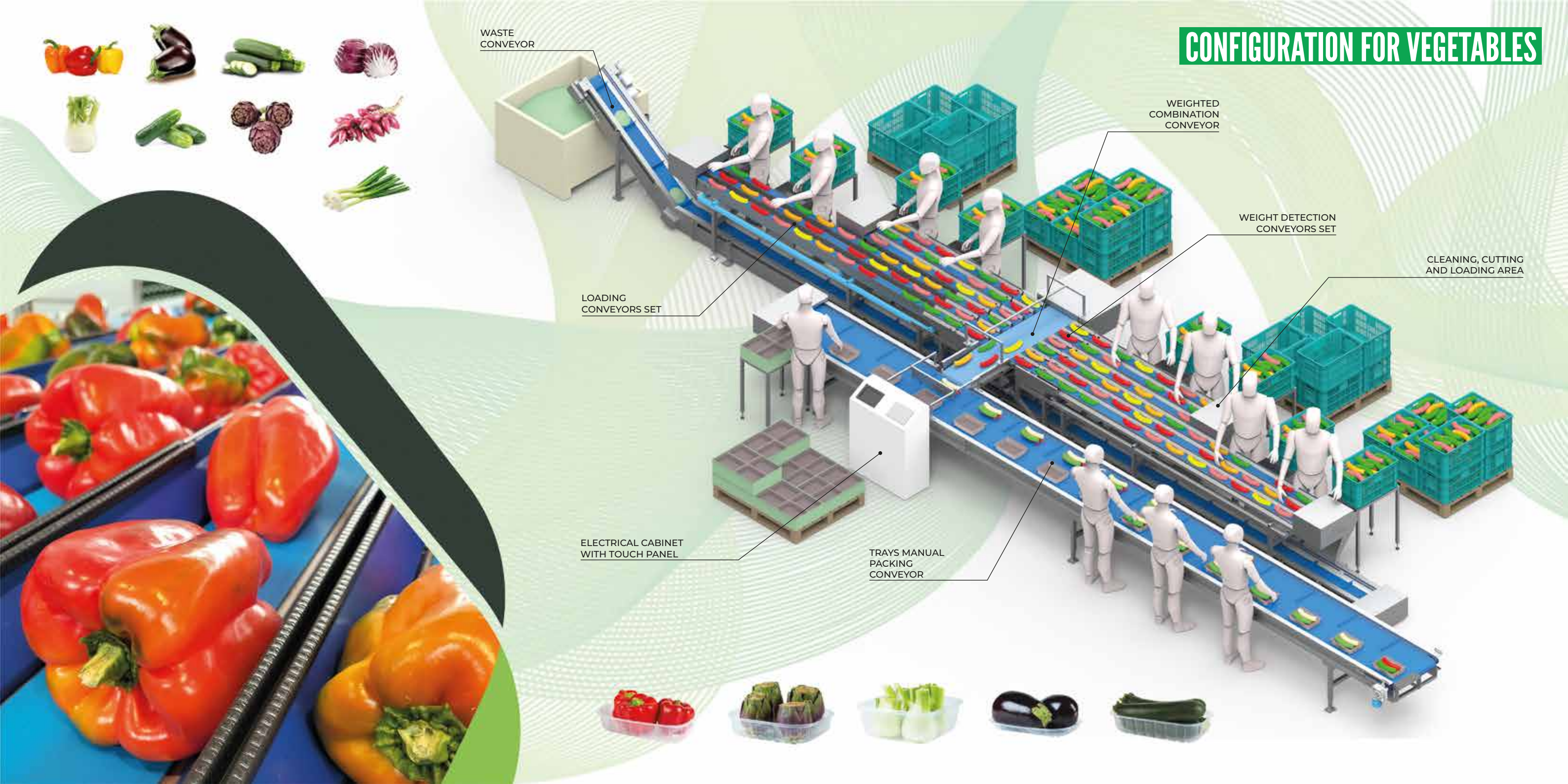


CONFIGURATION FOR CLUSTER FRUITS

**PATENT PENDING**



# CONFIGURATION FOR VEGETABLES



WASTE  
CONVEYOR

WEIGHTED  
COMBINATION  
CONVEYOR

WEIGHT DETECTION  
CONVEYORS SET

CLEANING, CUTTING  
AND LOADING AREA

LOADING  
CONVEYORS SET

ELECTRICAL CABINET  
WITH TOUCH PANEL

TRAYS MANUAL  
PACKING  
CONVEYOR



# VEGETABLES TYING MACHINE

**THE SOLUTION  
FOR THE AUTOMATION  
OF THE TYING PROCESS**

## VERSATILITY OF USE

Process different types of vegetables on the same line expanding your offer and meeting the needs of your customers.

## INCREASE YOUR PERFORMANCES

Increase your productivity with a streamlined feeding system and automatic tape application.

## INDEPENDENT CHANNELS

Independent motorization and transmission components between the two lines will allow you to stop the march of one channel keeping the second always in operation, minimizing machine downtime.

## DOUBLE CHANNEL LINE

INFEED AREA

STAINLESS STEEL STRUCTURE

TAPED PRODUCT COLLECTION TANK

## SINGLE CHANNEL LINE







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