# COLLABORATIVE PALLETIZING STATION





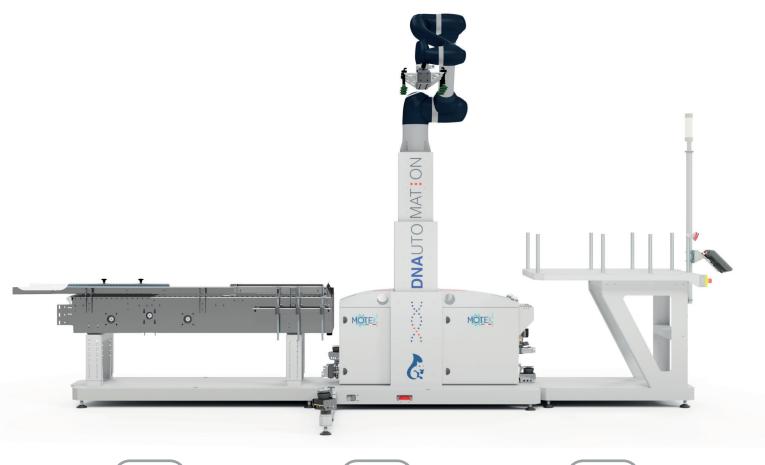
### AN ADVANCED COLLABORATIVE PALLETIZING SOLUTION:

- It improves working conditions by replacing manual palletizing
- It guarantees high-level safety standards
- It decreases the space required on the production layout
- · It offers advanced technologies that are easy to use
- It allows more flexibility when you have one or more low speed lines

### IS IT THE SUITABLE SOLUTION FOR YOUR NEEDS?

We only need to know: THE WEIGHT OF THE BOX/BOXES THE PRODUCTION RATE THE SIZE OF THE BOX/ BOXES

and we will be able to answer you immediately!





EASILY TRANSPORTABLE







## FEATURES & FUNCTIONALITY

#### Payload Robot 20 kg (44 lbs)

possibility of gripping 1/2/3 boxes with a total weight of max 16 kg. (35,27 lbs)

#### Plug & Play

Mobile solution with Plug & Play functionality. Multi-configuration cell layout.

#### 440 Volt Power Supply

The 440 Volt three-phase powered system is able to be easily installed at any point of the production line (different power supply option available).

# **HIGHLIGHTS: FLEXIBILITY**

#### **Easily transportable**

it can be moved from one line to another in a short time with a common pallet truck.

#### No mechanical adjustments

The transport and the preparation of boxes are free from manual adjustments.

#### Weighted down base

The system is well weighed down and can work without being anchored to the floor.





#### It adapts to any production layout

According to the needs, the feeding is carried out on one or two channels. It is also possible to place several boxes at the same time by grouping them in blocks.

#### Quick format change

In order to reduce format changeover times, the Squirrel does not require mechanical adjustments, only in particular cases it requires very few specific components based on the processed product.

#### Accurate layer formation

The grip-head places the boxes safely and precisely in their predetermined positions.

#### Transport of fragile packages

The packs continuously enter the forming station with almost no impact.

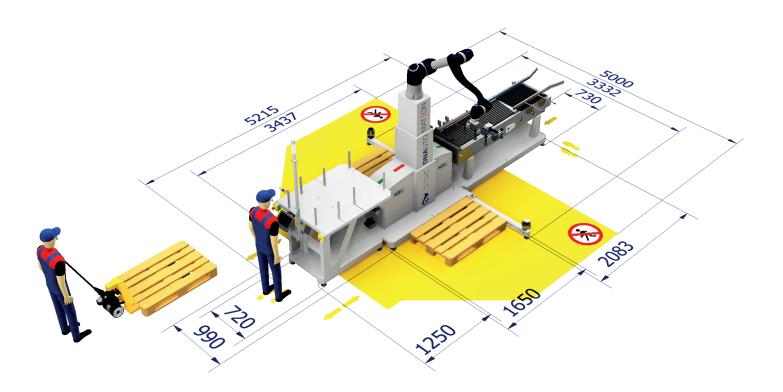


## FEATURES & FUNCTIONALITY

#### High performance in tight spaces

Ability to process up to 14 \* cardboards per minute. It allows to manage the load of up to 3 boxes at the same time.

\* Guaranteed working rate with total weight of the box of 5Kg (*11 lbs*) and with non-collaborative working mode and multiple gripping head.

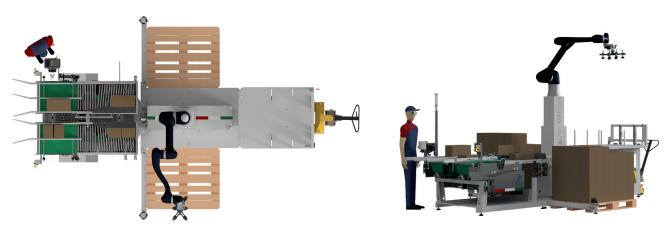


#### Palletizing height

Maximum palletizing height of 2000 mm (78,74 inch).

#### Workspace constantly monitored

Thank's to special laser barriers the work area will be constantly monitored, in order to guarantee maximum safety and at the same time maximum operational efficiency, allowing you to safely switch from collaborative to high-speed mode.



## FEATURES & FUNCTIONALITY

#### System managed by PLC

Very reliable system managed by PLC. The robot works as a slave and carries out the missions sent by the PLC via digital communication protocol.

#### **Customizable Grip-hand**

Customizable grip-hand according to the specific needs of the customer (single, double, triple).

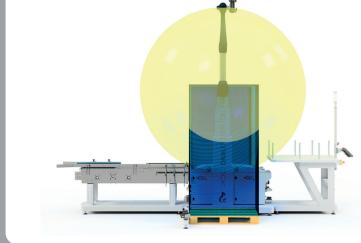




## **INTEGRATED SEVENTH AXIS**

#### **SEVENTH AXIS**

The Robot is mounted on a telescopic axis that allows it to reach 2000 mm (78,74 inch) of palletization by moving precisely as the 7th axis. The layout, made of sturdy recirculating-sphere guides, guarantees precision and solidity.



Max height of finished pallets **2000 mm** (78,74 inch).



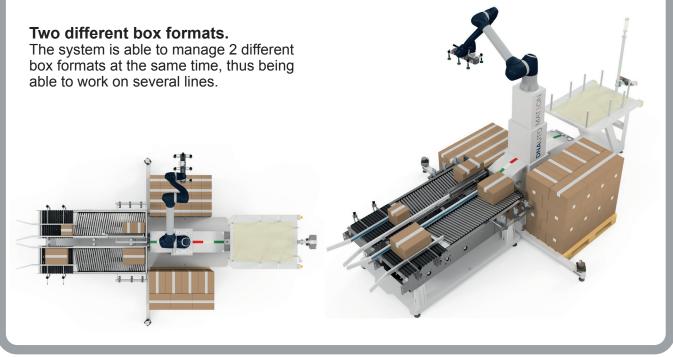
#### **Certifications:**

Compliant with the European Machinery Directive (2006/42 / CE). Compliant with Safety Requirements of ANSI B11.0. Certification for the American market (USA / CANADA): UL STD 508A - CSA STD C22.2#286.



# FEATURES & FUNCTIONALITY

# **TWO DIFFERENT BOX FORMATS**



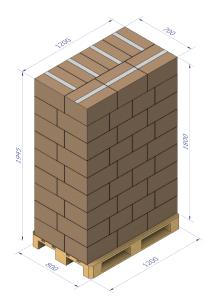
#### **BOXES FORMAT**

Minimum box dimensions mm (inch): L=200(7.87) , P=200(7.87), H=200(7.87) Box labels orientation to be checked.

Maximum box dimensions mm(inch): L=600(23.62) , P=400(15.75) , H=400(15.75) single pick head tool L=400(15.75) , P=400(15.75) , H=400(15.75) double pick head tool L=400(15.75) , P=250(9.84) , H=400(15.75) triple pick head tool



Other dimensions than those specified above need to be checked with drawings, pattern, maximum height etc.



#### PALLETIZATION FORMAT

dimensions mm (inch) Pallet :

Max height : Max box weight : Direction of boxes' movement : 1200(47,24) x 800 (31,49) 1200(47,24) x 1000 (39,37) 600 (23,62) x 800 (31,49) 2000mm (74,78) 16 Kg (35,27 lbs) short side facing forward

The 600  $(23,62) \times 800 (31,49)$  pallets can be processed coupled, as if it were a  $1200(47,24) \times 800 (31,49)$  pallets, taking care to set a layer configuration that can be divided in half.

# SOFTWARE ALCE (Automatic Layer Configuration Editor)

It is an easy-to-use and powerful software, which, with just a few steps, allows the creation and optimization of layer configurations.





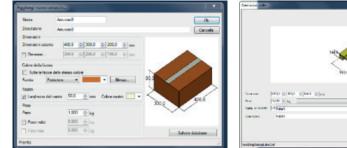
Product size setting



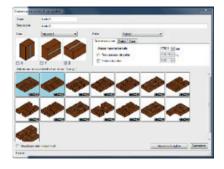
Pallet size setting



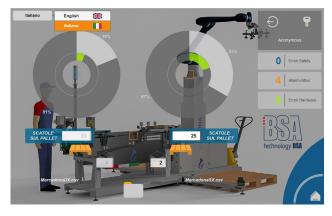
Choice of appropriate design



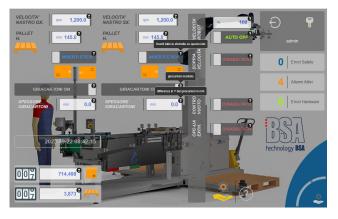




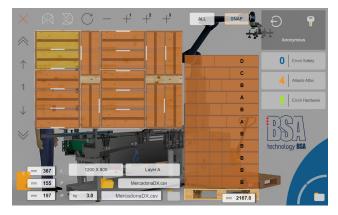
#### SOFTWARE IT IS FULLY CONFIGURABLE BY THOSE WHO PURCHASED THE MACHINE



Easy and intuitive data entry



It is possible to work 2 different formats at the same time.



Customizable layout

#### **REMOTE CONTROL**

The software is located on the panel on-board machine, but through the Webserver it is possible to create new palletizing formats directly from any camputer or tablet.

The system also allows real-time monitoring, analysis and diagnostics of data from the machine.





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