Revolutionary
palletizing concept

www.savvypalletizingsolutions.com

Why choose
SAVVY Palletizing Solutions

SAVVY Palletizing Solutions was founded with the mission of developing a new concept based on standardized and innovative palletizing solutions.

The pillars of the solutions adopted are the idea of 99% guaranteed **efficiency**, **flexibility** in terms of the formats and dimensions of boxes, providing the user with all the **autonomy** to manage the equipment, and savings in the investment achieved through mass production and the reduction of assembly costs based on the **plug & play** concept.

SPS also differs significantly from other existing equipment on the market in that it has a network of partners, SPS Premium Partners, which provides **assistance to users in 4 of the 7 continents**, thereby offering a service that works closely with the customer.

These standardized solutions are divided into three products depending on the speed required: DUOBOT, SAVVY PAL, and SAVVY PAL XL.

We collaborate in our clients' development, providing tested solutions that increase their efficiency and maximize their investment.

SPS is a line developed by IPLA, a company with more than 30 years of experience in the development of case palletizing projects with more than 1,500 palletizers installed over 6 continents.

In 2018, after 25 years of developing robotic solutions tailored to the requirements of each customer, there arose a need to develop standardized equipment that offers our customers the versatility to adapt to the constant changes required by the market.

More than **30 years** of experience

More than **1,500 palletizing units**

Technical service on **4** continents

What makes SAVVY Palletizing Solutions different?
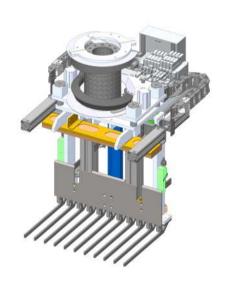
01 **EFFICIENCY**

02 **FLEXIBILITY**

03 **AUTONOMY**

04 **PLUG&PLAY**

EFFICIENCY

Savvy Palletizing Solutions' robots offer a palletizing speed from 8 to 35 cases/min. In addition, they exclusively use comb-type grippers, which provide a guaranteed 99% OEE. Thanks to their unique features, these grippers are the best option for a palletizing robot.

Optimal palletizing quality:
Thanks to their built-in reference blade, our grippers ensure perfect palletizing for each box.

Better efficiency:
Our palletizers don't require mechanical adjustments to change the format of the boxes, so they ensure maximum efficiency.

Greater safety:
There is no chance of boxes breaking during palletizing. Even if the adhesive tape on the B1 cases is poorly applied, cases will not open by themselves during the palletizing process.

99% OEE GUARANTEED

Discover more about our gripper

FLEXIBILITY

ANY TYPE AND SIZE OF PACKAGING from 5x5x4 in to 24x16x16 in

One of the biggest problems our customers face is the constant variation in case sizes and formats. With SPS palletizers, we solve this problem by being able to work with any type and size of box from 5x5x4 in to 24x16x16 in.

PLUG&PLAY

Our cells are mounted on a metal platform, which implies an 80% savings on time compared to a conventional robot.

80% time saved in assembly and relocation

AUTONOMY

Our palletizers incorporate an integrated pattern generator software. This easy and intuitive software allows you to create a new palletizing pattern in less than two minutes. You can save patterns and switch between them at any time.
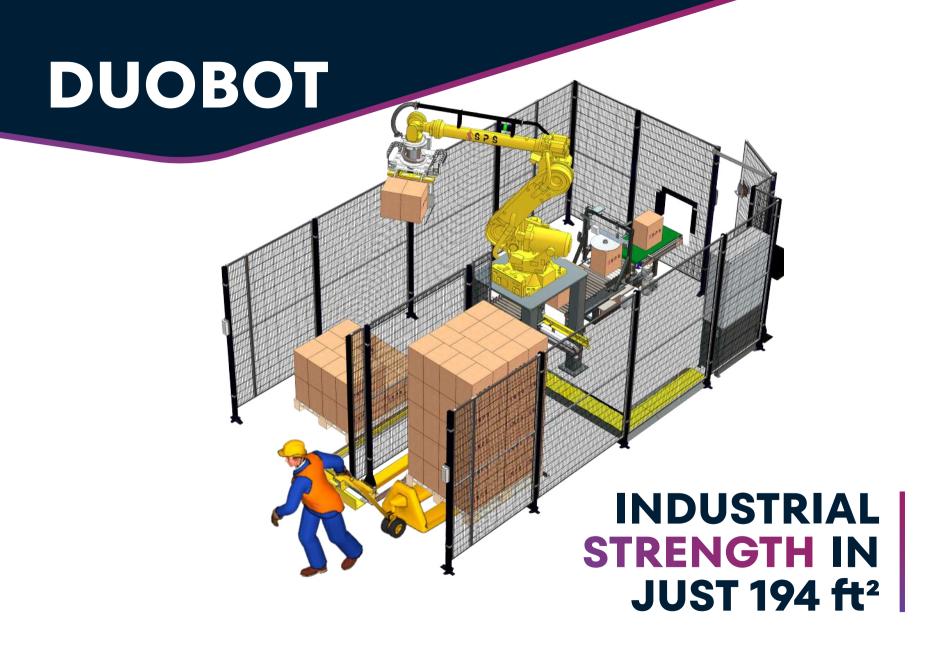
Easy

pattern generator

Discover our
SAVVY Palletizing Solutions

01
DUOBOT

The new DUOBOT palletizing cell was developed to offer an industrial alternative to collaborative robots. The robot has two palletizing positions that work alternatively. This allows for the operator to access it in order to remove the entire pallet while the robot continues working on the other side.

02
SAVVY PAL

SAVVY PAL is a unique concept in palletizing. It is mounted on a platform, reducing installation and commissioning time to 3 days. The design is based on versatility, as it can easily work on any type of box between 5"x5" to 24"x16".

03
SAVVY PAL XL

The SAVVY PAL XL is the biggest and fastest solution of the SAVVY Palletizing Solutions family. The gripper is designed to pick up the boxes in rows, allowing it to work with any size and any type of box with rows up to 48"x 16".

DUOBOT

INDUSTRIAL STRENGTH IN JUST 194 ft²

CONFIGURATION

> MODELS

Standard
Up to 9 c/m

Match up
Up to 20 c/m

OPTIONAL

⌄ INDUSTRIAL ROUTER

Allows for remote access to the palletizing cell via a WiFi network.

⌄ FACING   *Only in Match Up configuration

Allows for the final orientation of the boxes to be modified in order to make the label visible or not.

⌄ SHEET DISPENSER

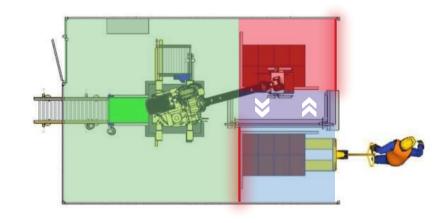Includes the slip sheet deposit and the vacuum device for the gripper.

HOW DOES IT WORK?

When the robot is palletizing in the red zone (movement of the boxes indicated by the green arrow), the security fence moves downwards (movement indicated by the white arrows), providing more space from the purple zone to the red zone.

In these circumstances, the operator can access the blue zone without stopping the robot to remove the full pallet and replace it with an empty one.

Once the pallet is complete, and as long as the blue area is free, the security fence moves upwards, providing space from the purple area to the blue area, so the robot can continue palletizing in the blue area. Any access to the green zone immediately stops the robot.

DUOBOT
vs
COBOT

CHARACTERISTICS

GENERAL CHARACTERISTICS	DUOBOT V2	
	Regular	Match Up
Required clearance height*	14'	
Box entry height	Between 2' and 3'	
Pallet exit height	-	
Maximum pallet height	95"	
Minimum ambient temperature	5 °C	
Planimetry	± 1"	
	0.2" on palletizing positions	
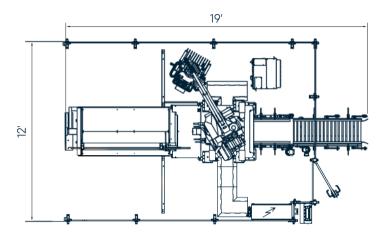
ELECTRICAL CHARACTERISTICS			
Electrical installation (1)	480V/3Ph+N+GND 60Hz		
Installed power	13 KVA		14 KVA
Air pressure	87 PSI		
Air consumption	Without sheet dispenser	3 Nft^3/min	3.51 Nft^3/min
	With sheet dispenser	3.83 Nft^3/min	4.75 Nft^3/min
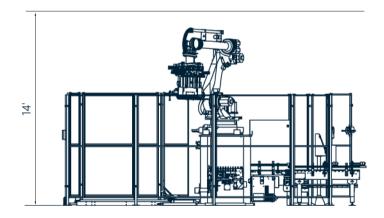
ROBOT		
Model	FANUC R-2000iC/125L	
Maximum load	Without sheet dispenser	90 lb
	With sheet dispenser	80 lb
Controlled axes	6	

SHEET DISPENSER	
Accepted sheets	Corrugated cardboard	Anti-slip paper

PALLETS	
Supported types	All
Supported dimensions	40"x48"
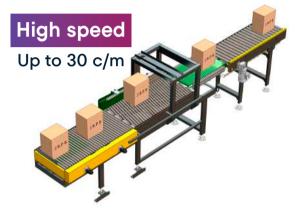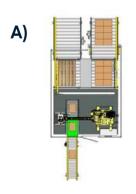
TECHNICAL LAYOUT

SAVVY PAL

CONFIGURATION

> MODELS

Standard

Up to 9.5 c/m

Match up

Up to 20 c/m

High speed

Up to 30 c/m

> LAYOUT

A)

B)

C)

D)
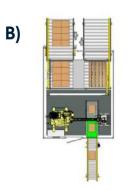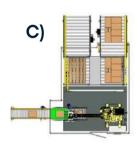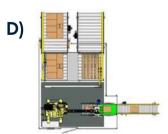
OPTIONAL

PALLET DISPENSER

Allows for feeding in stacks of pallets instead of doing it one at a time.
Also includes the security elements.

SHEET DISPENSER

Includes the slip sheet deposit and the vacuum device for the gripper.

MANUAL FORKLIFT CONVEYORS

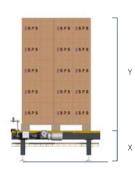Pallet conveyors designed to work with manual forklifts.
Distance from floor: 4 in

CUSTOM STAND HEIGHT

*Required if x+y > 28 in

For loads over 28 in by adding the height of the highest pallet to the height of the pallet conveyor.

INDUSTRIAL ROUTER

Allows for remote access to the palletizing cell via a WiFi network.

FACING

Allows for the final orientation of the boxes to be modified in order to make the label visible or not.

CHARACTERISTICS

GENERAL CHARACTERISTICS	SAVVY PAL V4		
	Regular	Match Up	High Speed
Required clearance height*	Standard stand: 14'		
	Custom stand: 15.6'		
Box entry height	Between 2' 3.5" and 5'		
Pallet exit height	19.7" (3.7" with manual forklift conveyors)		
Maximum pallet height	95" with manual forklift conveyors		
	With standard conveyors	Stantard stand: 79"	
		Custom stand: 95"	
Minimum ambient temperature	5 °C		
Planimetry	± 1"		
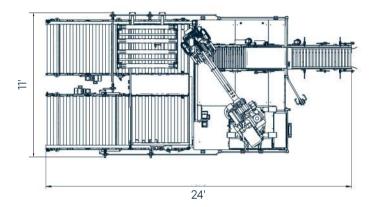
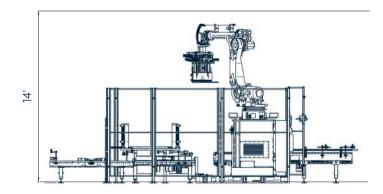| ELECTRICAL CHARACTERISTICS				
Electrical installation (1)	480V/3Ph+N+GND 60Hz			
Installed power	14 KVA	15 KVA	15.75 KVA	
Air pressure	87 PSI			
Air consumption	Without sheet dispenser	3 Nft^3/min	3.51 Nft^3/min	3.60 Nft^3/min
	With sheet dispenser	4.23 Nft^3/min	4.73 Nft^3/min	4.84 Nft^3/min

ROBOT		
Model	FANUC R-2000iC/125L	
Maximum load	Without sheet dispenser	90 lb
	With sheet dispenser	80 lb
Controlled axes	6	

SHEET DISPENSER	
Accepted sheets	Corrugated cardboard	Anti-slip paper

PALLETS	
Supported types	Regular	GMA	CHEP
Supported dimensions	40"x48"

TECHNICAL LAYOUT

*Standard configuration

SAVVY PAL XL

THE
BIG BOY

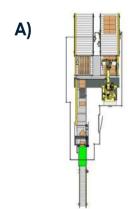# CONFIGURATION

> MODELS
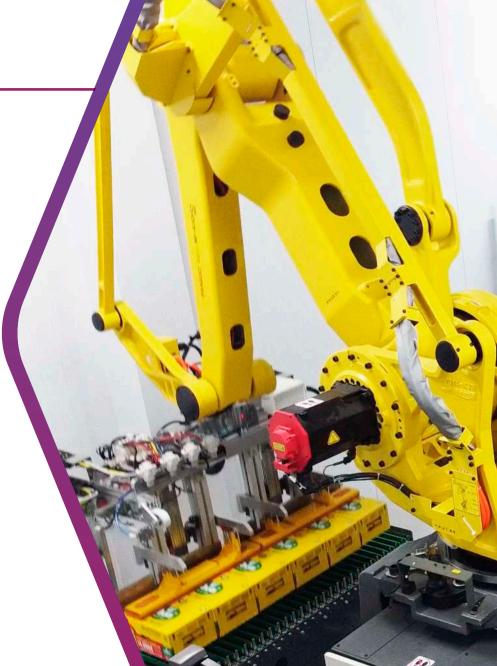
Standard

Up to 35 c/m

> LAYOUT

A)

B)

OPTIONAL

⌄ PALLET DISPENSER

Allows for feeding in stacks of pallets instead of doing it one at a time.
Also includes the security elements.

⌄ SHEET DISPENSER

Includes the slip sheet deposit and the vacuum device for the gripper.

⌄ MANUAL FORKLIFT CONVEYORS

Pallet conveyors designed to work with manual forklifts.
Distance from floor: 4 in

⌄ INDUSTRIAL ROUTER

Allows for remote access to the palletizing cell via WiFi network.

CHARACTERISTICS

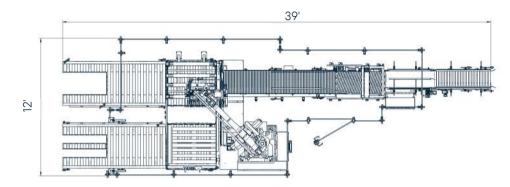| GENERAL CHARACTERISTICS	SAVVY PAL XL V2
Required clearance height*	Depending on the project
Box entry height	Between 2' 3.5" and 5'
Pallet exit height	19.7" (3.7" with manual forklift conveyors)
Maximum pallet height	Between 70" and 95" depending on patterns
Minimum ambient temperature	5 ºC
Planimetry	± 1"

ELECTRICAL CHARACTERISTICS		
Electrical installation (1)		480V/3Ph+N+GND 60Hz
Installed power		15.75 KVA
Air pressure		87 PSI
Air consumption	Without sheet dispenser	6.26 Nft^3/min
	With sheet dispenser	7.50 Nft^3/min
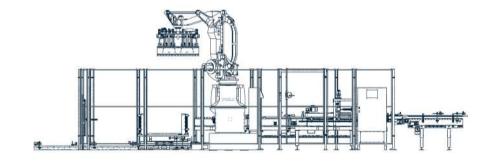
ROBOT		
Model		FANUC M - 410iC/185L
Maximum load	Without sheet dispenser	125 lb
	With sheet dispenser	115 lb
Controlled axes		4

SHEET DISPENSER	
Accepted sheets	Corrugated cardboard	Anti-slip paper

PALLETS	
Supported types	Regular	GMA	CHEP
Supported dimensions	40"x48"

TECHNICAL LAYOUT

Discover our Premium Partners in your country

No matter where you are located, through our network of premium partners, we guarantee technical service and spare parts worldwide.

Already working with us:

toluca foods inc · RAUMAK PACKAGING · ALFA VITAMINS · AKOMA · FORMIC · BPS BALTIC PACKAGING SYSTEMS

Huhtamaki · McBride · Henkel · AMC NATURAL DRINKS GROUP · WHITE & GREEN · HARTMANN · EASY FOODS INCORPORATED

Gallina Blanca · Panamar BAKERY_GROUP. · apis · tresmontes lucchetti · HOFRED · CEYLON · CHIC-KLES · Chovi SINCE 1950

SPB · Virto ultracongelados · estiu · ROMAR BODY & HOME CARE · COSTA CONCENTRADOS LEVANTINOS

SPS

SAVVY PALLETIZING SOLUTIONS

Efficiency | Flexibility | Autonomy | Plug&Play

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