



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 foundations of the solutions adopted are based on the idea of a 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 as 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.



What makes
SAVVY
Palletizing
Solutions
different?

01 **EFFICIENCY**

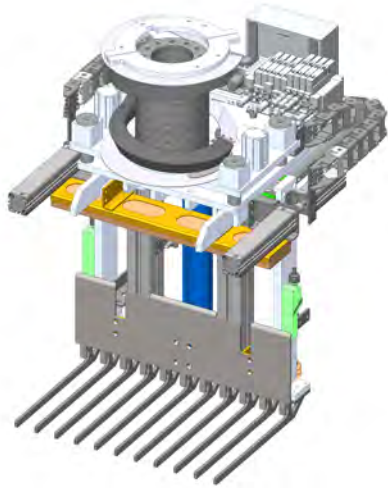
02 **FLEXIBILITY**

03 **PLUG&PLAY**

04 **AUTONOMY**

EFFICIENCY

Savvy Palletizing Solutions robots offer a palletizing speed from 8 to 35 cases/min. In addition, they exclusively use fork-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

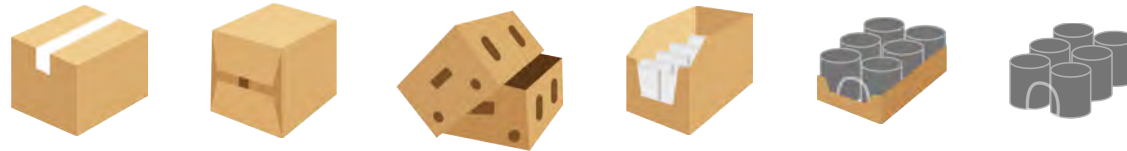
Discover more
about our
gripper



FLEXIBILITY

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

One of our customers' biggest problems 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 palletizing cells are mounted on a metal platform, which implies an 80% savings on the assembly time compared to a conventional robot.

80% time saved in
assembly and relocation



AUTONOMY

Our palletizers include 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 with 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



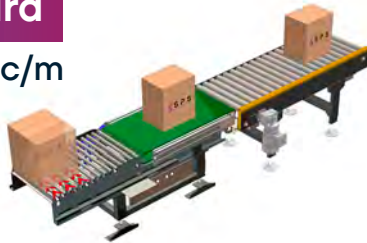
**INDUSTRIAL
STRENGTH IN
JUST 194 ft²**

CONFIGURATION

> MODELS

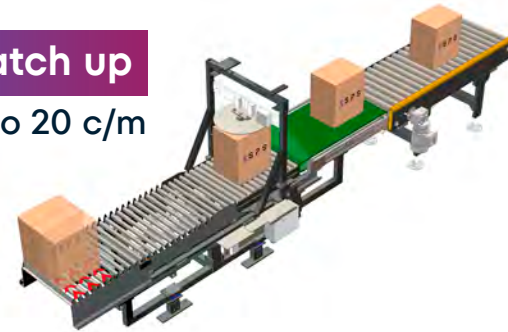
Standard

Up to 8'5 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.

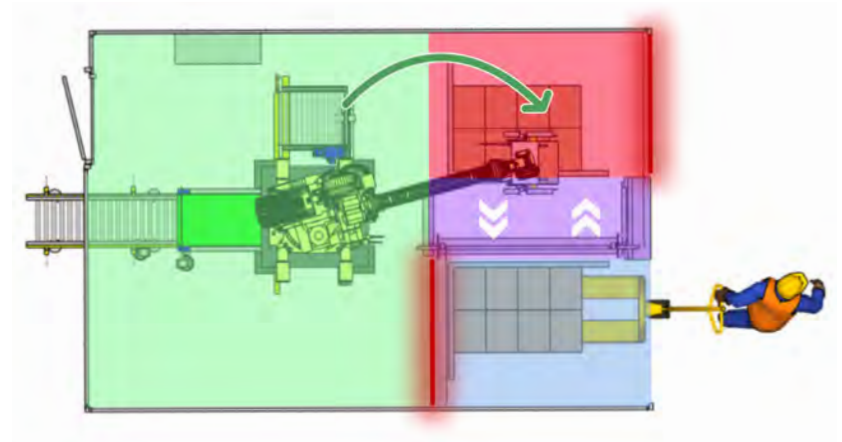


HOW DOES IT WORK?

When the robot is palletizing in the red zone (movement of the boxes indicated by the green arrow), the safety fence moves sideways (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 safety fence moves sideways, 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 operation temperature	41°F	
Planimetry	± 1"	
	0.2" on palletizing positions	

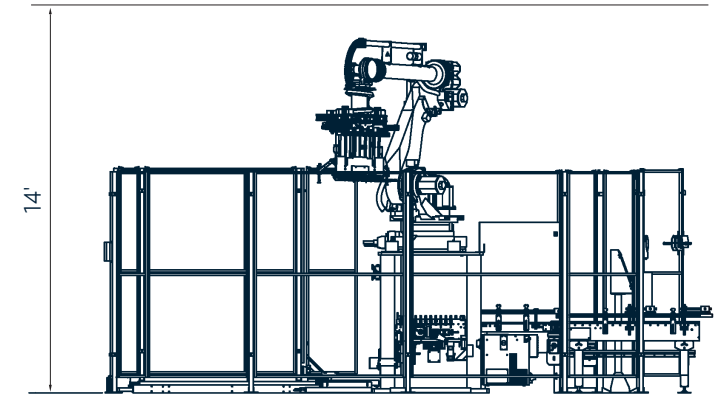
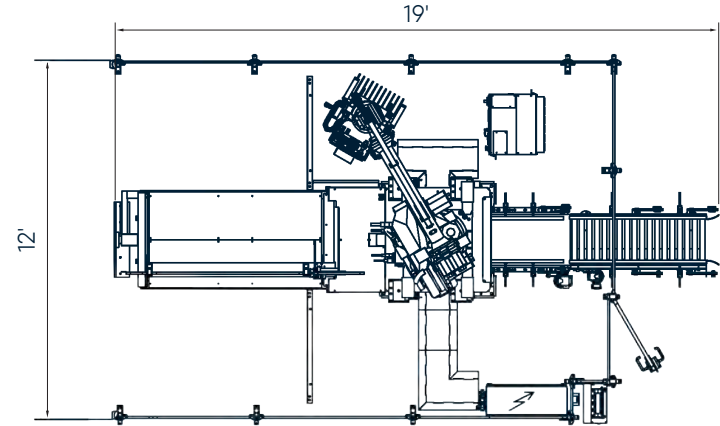
ELECTRICAL CHARACTERISTICS			
Electrical installation (1)		480V/3Ph+N+GND 60Hz	
Installed power		13 KVA	14 KVA
Air pressure		87 PSI	
Air Consumption	Without sheet dispenser	3 Nft³/min	3.51 Nft³/min
	With sheet dispenser	3.83 Nft³/min	4.75 Nft³/min

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



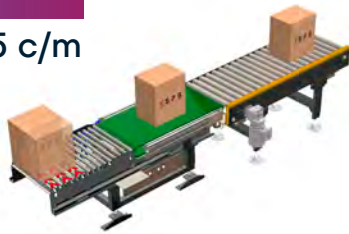
OUR
BEST SELLER |

CONFIGURATION

> MODELS

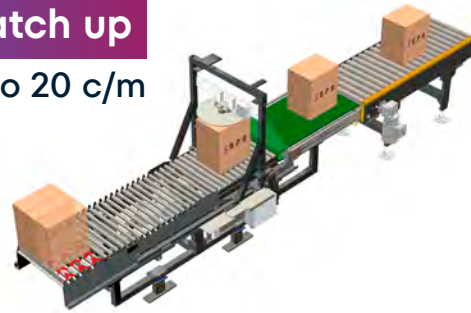
Standard

Up to 9.5 c/m



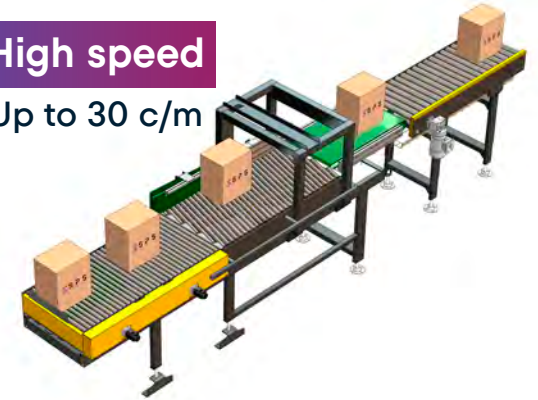
Match up

Up to 20 c/m



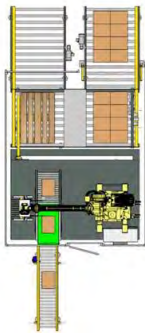
High speed

Up to 30 c/m

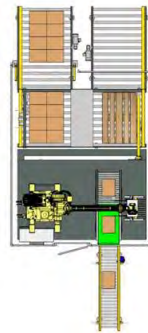


> LAYOUT

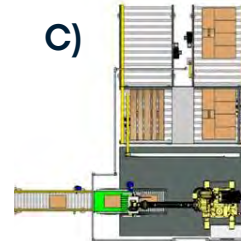
A)



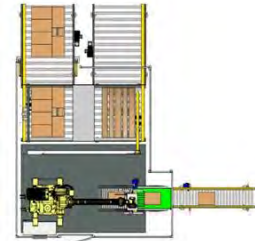
B)



C)



D)



OPTIONAL

✓ PALLET DISPENSER

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



✓ SHEET DISPENSER

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



✓ PALLETJACK CONVEYORS

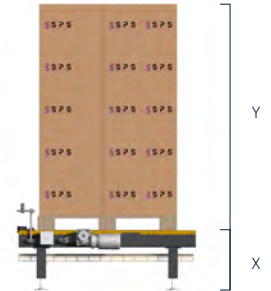
Pallet conveyors designed to work with palletjack conveyors. Distance from floor: 4 in



✓ CUSTOM STAND HEIGHT

*Required if $x+y > 95$ "

For loads over 95" 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 1/2" and 5'			
Pallet exit height	19.7" (3.7" with conveyors for palletjack access)			
Maximum pallet height	95" with conveyors for palletjack access			
	With standard conveyors	Standard stand: 79" Custom stand: 95"		
Minimum operation temperature	41°F			
Planimetry	± 1"			

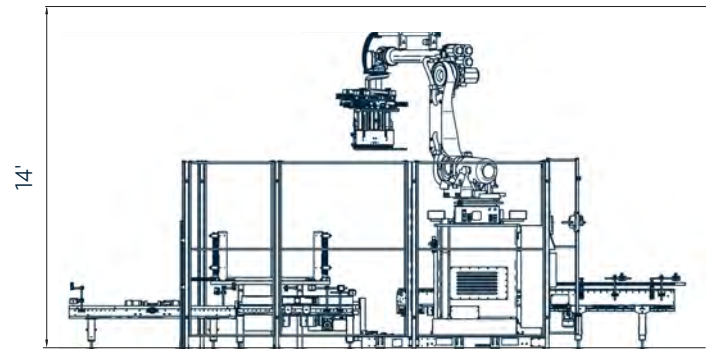
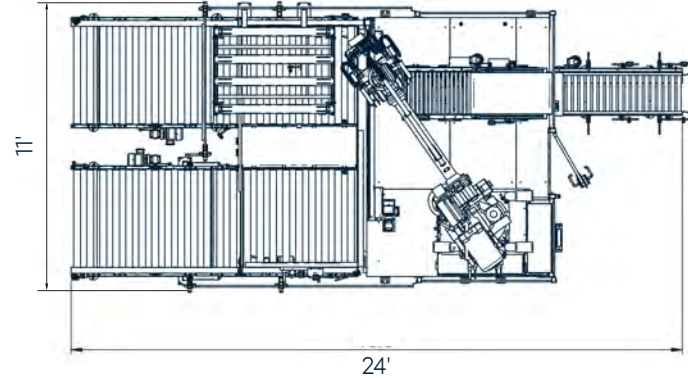
ELECTRICAL CHARACTERISTICS				
Electrical installation (1)	480V/3Ph+N+GND 60Hz			
Installed power	14 KVA	15 KVA	15.75 KVA	
Air pressure	87 PSI			
Air consumption	Without sheet dispenser	3 Nft³/min	3.51 Nft³/min	3.60 Nft³/min
	With sheet dispenser	4.23 Nft³/min	4.73 Nft³/min	4.84 Nft³/min

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

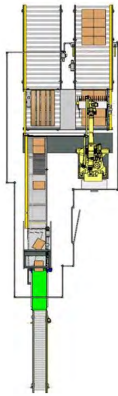
Standard

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 safety elements.



✓ SHEET DISPENSER

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



✓ PALLETJACK CONVEYORS

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



✓ INDUSTRIAL ROUTER

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



CHARACTERISTICS

TECHNICAL LAYOUT

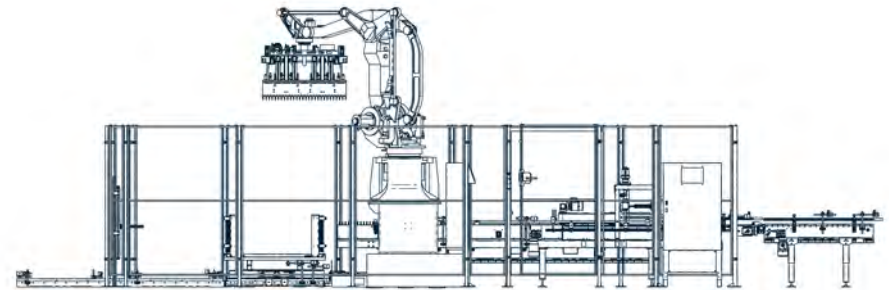
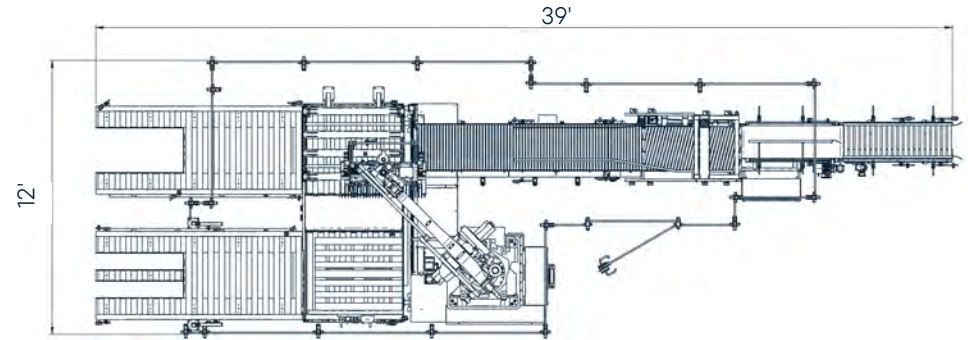
GENERAL CHARACTERISTICS		SAVVY PAL XL V2
Required clearance height	Depending on the project	
Box entry height	Between 2' 3 1/2" and 5'	
Pallet exit height	19.7" (3.7" with conveyors for palletjack access)	
Maximum pallet height	Between 70" and 95" depending on patterns	
Minimum operation temperature	41°F	
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

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





S P S

SAVVY PALLETIZING SOLUTIONS

Efficiency | Flexibility | Autonomy | Plug&Play

www.savvypalletizingsolutions.com