



ENG



# The high density pallet storage solution

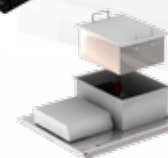
**AUTOSAT®** is an automatic shuttle able to transform into an automatic warehouse all the drive-in racking systems, assuring the maximum use of the warehousing, making the facility more productive and efficient. **AUTOSAT®**, powered by an innovative Lithium Ion battery easy to recharge and managed by an interactive radio transmitter, moves goods on pallets into the drive-in channels. **AUTOSAT®** can be placed in the appropriate channel by means of a standard fork lift.



Electrical mechanical  
lifting system



Rechargeable battery



Charger



Rechargeable  
remote controller



Autoservice

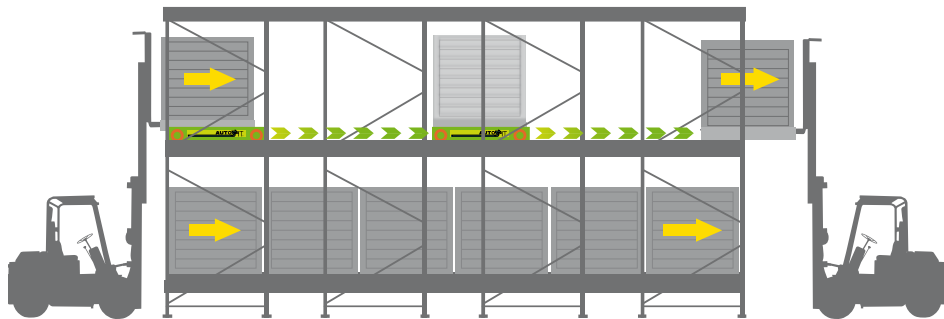
**AUTOSAT®** registered trademark UE-USA.  
Owner: Automha Srl, via Emilia, 6 - 24052 Azzano  
San Paolo (Bg) - Italy

> Automated warehouses with stacker-cranes > Automated miniload warehouses for picking > Vertical warehouse > Handling systems > Automatic guide vehicles > Autosat > Robotics > Revamping

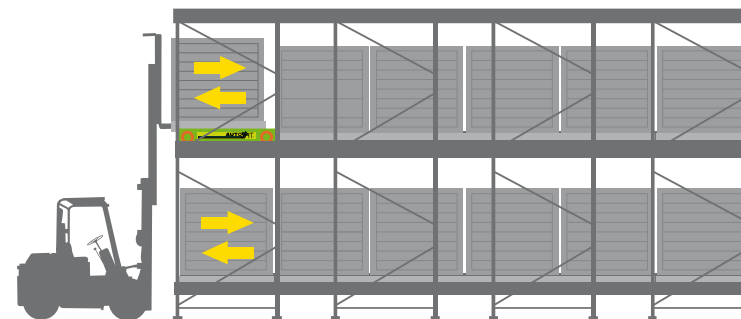


## Applications

### FIFO First in First out



### LIFO Last in First out



## Standard equipment

- > Battery on board
- > Lithium battery charging station
- > Remote controller
- > Remote controller battery charger
- > User manuals
- > Wooden box as packaging

## Standard Functions

- > Loading
- > Unloading
- > Continuous unloading
- > Distance between pallets 40 mm up to 150 mm
- > AUTOSAT® manual mode
- > Remote controller able to manage up to 4 AUTOSAT®

## Optional and integrations

- > Transport
- > Installation and training
- > Spare parts
- > Autoservice - maintenance manual buggy
- > Protection against liquid dropping from pallet
- > Cold store machine setup from +4°C up to -30°C (SAT. ... BZ.)

## Optional functions

- > Pallets rearrange "compacting push"
- > Pallets rearrange "compacting pull"
- > Uncollision between AUTOSAT® in the same channel
- > Stock list: counting pallets
- > Multipallet: different depth pallets management in the same channel
- > Continuous unloading "plus"

## Models and Dimensions

Model	Load max. Kg	Depth pallet mm	Wide pallet front mm	A mm	B mm	C mm	Stroke mm	Weight Kg	D mm	E min. mm	F min. mm
SAT. 0812. ST. LTH	1500	800	1200	878	174	955	45	180	843	300	270
SAT. 1012. ST.LTH	1500	1000	1200	1078	174	955	45	200	843	300	270
SAT. 1212. ST.LTH	1500	1200	1200	1298	174	955	45	220	843	300	270
SAT. 4840.ST.LTH	1500	1220	1016	1298	174	828	45	210	716	300	270
SAT. 4048.ST.LTH	1500	1016	1220	1078	174	955	45	200	843	300	270

## Technical Information

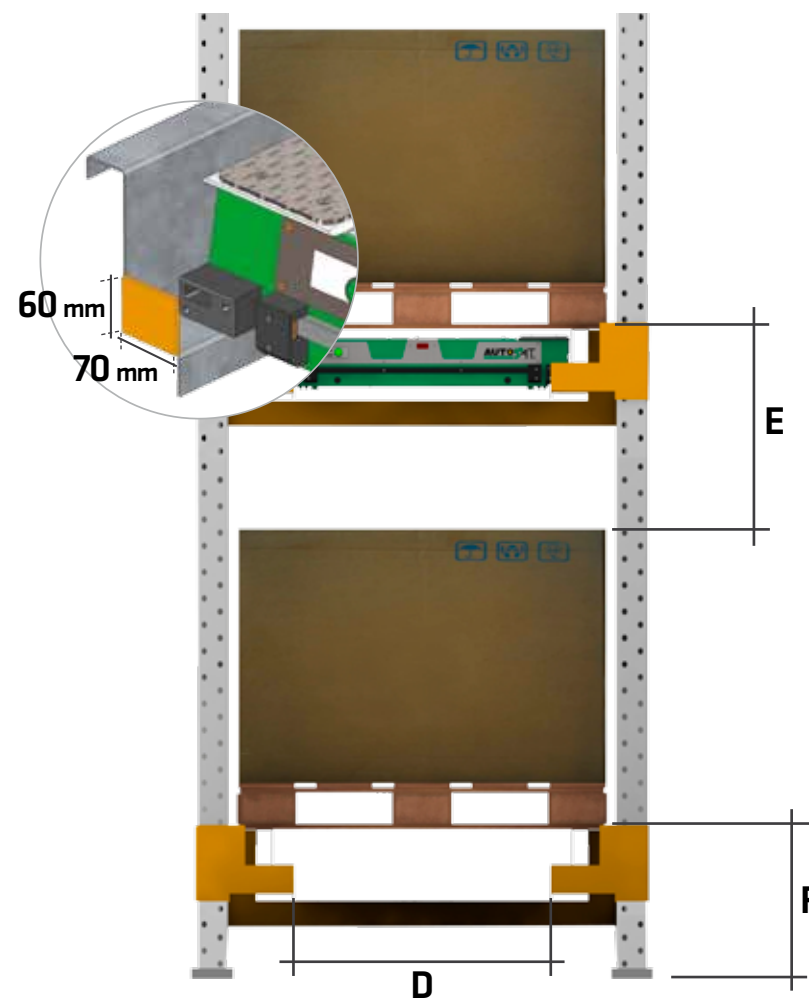
Shuttle performances	
Speed with load on board	~ 30-33 m/min
Speed without load on board	~ 63-66 m/min
Working range	10-12-16 h

Battery	
Type	Lithium - Ion MNC
Voltage	24 V
Capacity	53 Ah
Weight	~ 13 Kg
Charging station power	EU 240/50 Vac/HZ US 115/60 Vac/Hz
Charging time at 20°C for 80% level	3 h
Charging time at 20°C for 100% level	5,5 h
Battery life with correct use	min. 900 charging
Battery quantity on board	1

Features	
Working temperature	ST: from +5°C up to +45°C BZ: from +4°C up to -30°C
Colors	chassis RAL 6032 lid RAL 7035

Motors	
Travelling power motor	700 W
Lifting power motor	400 W

Remote controller	
Type	Radio-frequency
Display	LCD 16 x 2
Protection	IP65
Power	Battery
Charging battery	500 mAh - 4,8 V
Max. consumption during transmission	55 mA
Max. consumption during receiving	50 mA
Stand-by function	Stand-by mode active after 3 min. of not use
Battery life (at 20°C) with correct use	continuous 10 h stand-by 1300 h



The information in this datasheet can be modified for changes and integrations due to technological implementation. The performance and dimensions are nominal and subject to tolerance. The specifications are subject to change without notice.

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### **Autosat benefits:**

- > The operator's work is front warehouse.
- > No stress for the operator.
- > No damage to the goods.
- > No damage to the drive-in racking.
- > Space optimization.
- > Warehouse efficient organization.
- > Quick and silence movements.
- > Quickness working.
- > No modification to the fork lift.
- > Able to be used in the existing drive-in systems.
- > Easy to use.

- > Minimum maintenance.
- > State of the art safety systems.
- > Lithium Ion innovative technology.
- > Battery pack easy to change.
- > Innovative placement.
- > Effective auto stop system with load on board.
- > Machine operation data once on the display.
- > Custom set up.
- > Autoservice: the skilled, easy, effective AUTOSAT® maintenance manual buggy.
- > Suitable mode for frozen area up to -30 °C.
- > Service all over the world.



**AUTOSAT® designed and manufactured by Automha srl - ITALY**  
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**AUTOMHA®**  
 automatic material handling