



StackerSAT

S T A C K E R S A T

StackerSAT is Eurofork's solution for multi-deep storage warehouses needing stacker cranes technology.

It is proven that there is not a definitive product that can solve all warehousing conditions, therefore Eurofork has added the StackerSAT machine into its portfolio that already includes telescopic forks, handling devices and ESMARTSHUTTLE to provide a wider product range to the best system integrators worldwide.

Such machine originates from the ESMARTSHUTTLE smaller cart, originally designed in 2012 and available in the market since 2014, and it carries all the experience gained in the field during the past years.

WHY STACKERSAT?

- It has 8 wheels all driven for a great stability and uniform traction even during transfer from/to the stacker crane frame
- It is powered by latest generation lithium batteries to ensure a continuous use 24/7 with independent missions available (more than one StackerSAT per each stacker crane; chain conveyor embedded on crane's frame needed)
- It is highly customizable based on the several loads and pallets to handle
- It grants the highest performances having several load classes with specific dynamics: only unstable loads will run smoothly while maximum speed and acceleration are used for the stable ones
- It is a scalable system as the quantity of StackerSAT per stacker crane can be increased when needed
- It manages LIFO & FIFO logics
- It positions itself through the Eurofork international patented system based on datamatrix technology or it uses more traditional technologies such as encoder & photocells
- It is designed, produced and tested in Italy with Eurofork's principle to use the best worldwide suppliers for its internal components



APPLICATIONS

StackerSAT can be used in all sectors and it has already gained references in warehouses for food and beverage companies.

Its typical application is a standard or high-bay warehouse that does not need a full shuttle system to satisfy the throughput requirements.

MODELS

There are 4 main versions of the StackerSAT (combinations available on request)

- **STANDARD:** to carry regular 1200mm (48") wide pallets with payload of 1500kg (3300lb) max. in a normal environment
- **NARROW:** to carry 1000mm (40") wide pallets with payload of 1500kg (3300lb) max. in a normal environment
- **FROZEN:** to carry regular 1200mm (48") wide pallets with payload of 1500kg (3300lb) max. in a freezer environment
- **TWO TONS:** to carry regular 1200mm (48") wide pallets with payload of 2000kg (4400lb) max. in a normal environment

DATA TABLE

	MODEL	WIDTH (entrance side)	DEPTH	HEIGHT	TEMP. RANGE	MAX LOAD WEIGHT	MIN PALLET LENGTH (entrance side)	MAX PALLET DEPTH
MEASUREMENT UNIT		mm	mm	mm	°C	kg	mm	mm
STANDARD SERIES	SSAT 1	990	1200	170	0° - 45°	1500	1200	800
	SSAT 2	990	1200	170	0° - 45°	1500	1200	1016
	SSAT 3	990	1400	170	0° - 45°	1500	1200	1220
NARROW SERIES (NW)	SSAT 1 NW	825	1200	170	0° - 45°	1500	1000	800
	SSAT 2 NW	825	1200	170	0° - 45°	1500	1000	1016
	SSAT 3 NW	825	1400	170	0° - 45°	1500	1000	1220
FROZEN SERIES (FR)	SSAT 1 FR	990	1200	190	-30° - 0°	1500	1200	800
	SSAT 2 FR	990	1200	190	-30° - 0°	1500	1200	1016
	SSAT 3 FR	990	1400	190	-30° - 0°	1500	1200	1220
TWO TONS SERIES (2T)	SSAT 1 2T	990	1200	190	0° - 45°	2000	1200	800
	SSAT 2 2T	990	1200	190	0° - 45°	2000	1200	1016
	SSAT 3 2T	990	1400	190	0° - 45°	2000	1200	1220

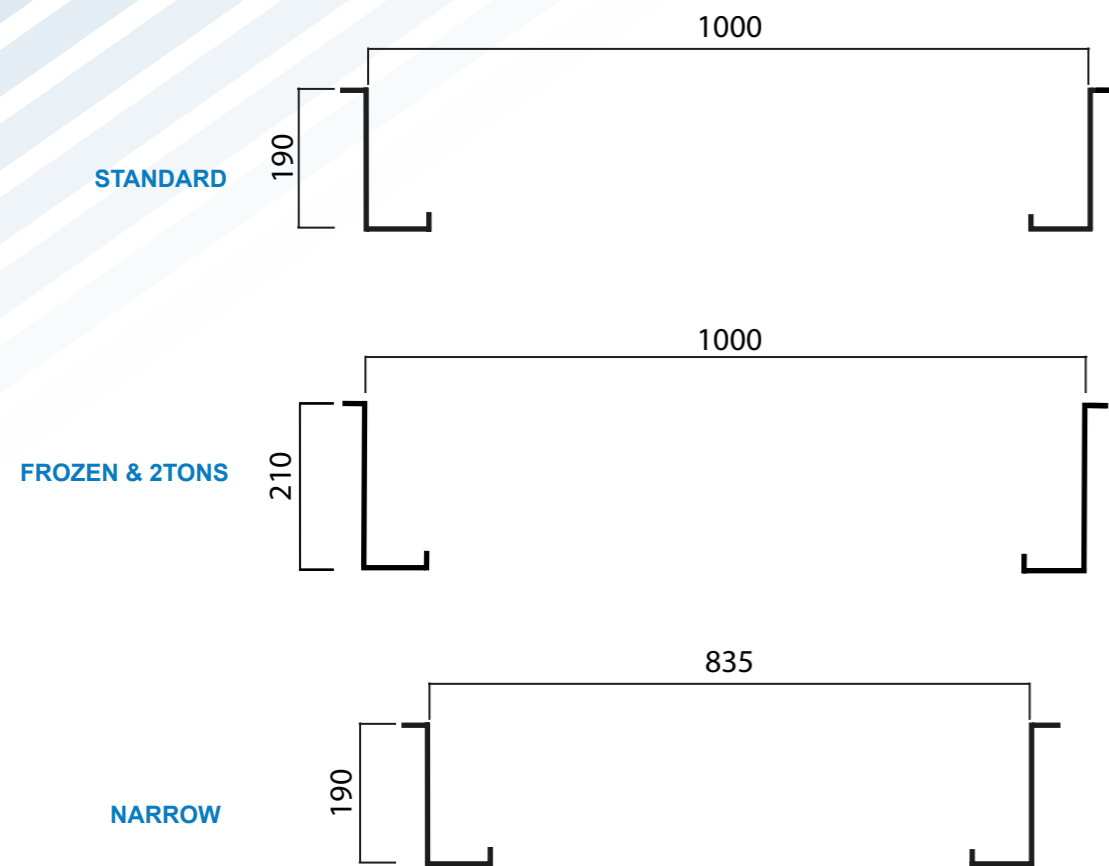
Each model can be further customized by stretching the machine in the two directions to handle non-standard pallet sizes and/or overhanging loads.

PERFORMANCES TABLE

		MEASUREMENT UNIT	STANDARD SERIES	NARROW (NW)	FROZEN (FR)	TWO TONS (2T)
SPEED with load up to	1300 kg	m/min	100	100	100	80
	1500 kg	m/min	80	80	80	80
	2000 kg	m/min	-	-	-	80
SPEED without load		m/min	100	100	100	80
ACCELERATION with load		m/s ²	0.5	0.5	0.5	0.4
ACCELERATION without load		m/s ²	1	1	1	0.6
LIFTING STROKE		mm	40 / 50	40 / 50	40 / 50	40 / 50
HANDLED PALLET			ALL MAYOR STANDARD PALLETS			



STACKERSAT TRACKS



The lifting stroke is usually 40mm to reduce the overall tracks thickness.
In case of pallet deflection issues, a 50mm version is available to provide a higher gap between StackerSAT lid and pallet bottom board (all above thickness to be increased by 10mm in this case).

INTEGRATION / CONTROL / COMMUNICATION

StackerSAT always comes with its recharging station and its Wi-Fi kit to be integrated in the stacker crane frame. Specific indications are provided by Eurofork when needed.

The standard communication foresees that StackerSAT “slave” SIEMENS PLC receives missions from stacker crane “master” SIEMENS PLC through ProfiNET network running on 5 GHz Wi-Fi.

Data exchange definition is requested to define all what needed for the full integration with stacker crane and its operator panel.

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