ISAT

semi-auto









INTENSIVE STORAGE WITH PALLET SHUTTLE

ISAT pallet shuttles by Cassioli The ISAT system works in are specifically designed for high semi-automatic mode, using a density pallet storage.

ISAT allows storage of a large by the operator. loading front, enabling optimisa- remote control display. sizes in the same channel.

remote control directly managed

quantity of pallets, with a depth Operating conditions can be of over to 40 metres from the checked in real time from the

tion of warehouse space and The LED signal lights help the offering the possibility of storing operator to locate the exact pallets with different depths position of the shuttle in the warehouse.

BORN

ISAT

ISAT: STANDARD DIMENSIONS

Model	Pallets size	Isat size	Max capacity
ISAT 0812	800 x 1.200 mm	D 884 x L 955 x H 178 mm	1.500 Kg
ISAT 1012	≤ 1.000* x 1.200 mm	D 1084 x L 955 x H 178 mm	1.500 Kg
ISAT 1112	≤ 1.100* x 1.200 mm	D 1184 x L 955 x H 178 mm	1.500 Kg
ISAT 1212	≤ 1.200* x 1.200 mm	D 1284 x L 955 x H 178 mm	1.500 Kg

*It is possible to manage pallets of different sizes in the same channel

TECHNICAL CHARACTERISTICS

ISAT MAXIMUM SPEED (EMPTY)

up to 1.22 m/s

ISAT MAXIMUM SPEED (LOADED)

up to 0.62 m/s

ISAT WEIGHT (WITHOUT BATTERY)

250 kg

DRIVE WHEELS

4

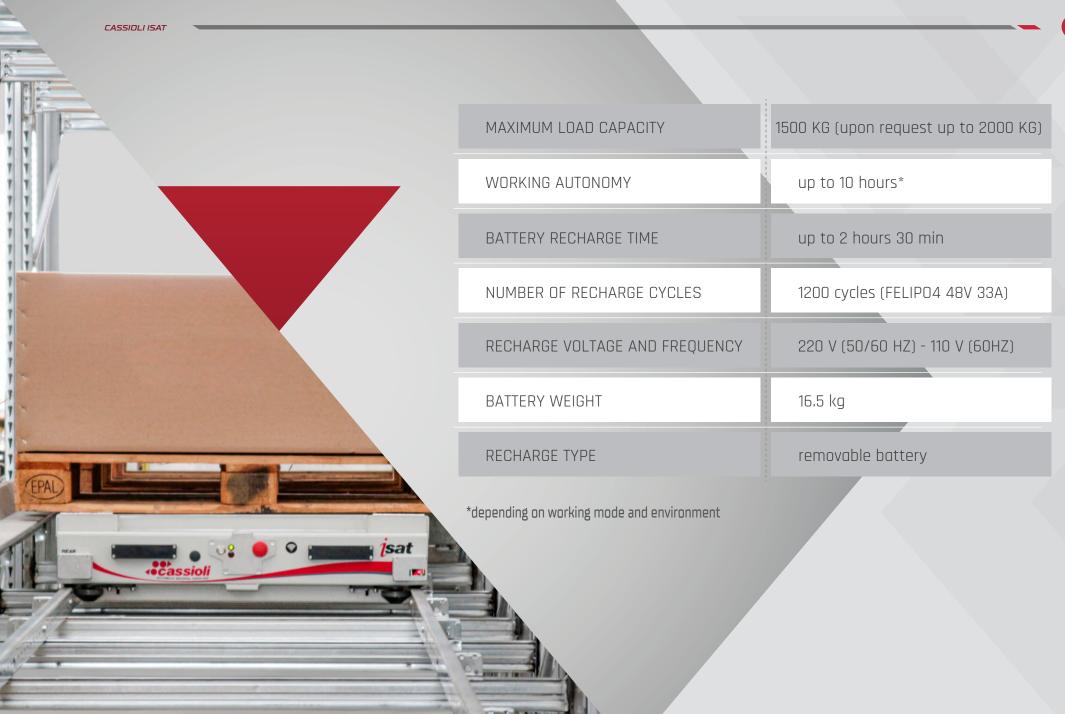
DATA COMMUNICATION

WI-FI

OPERATING TEMPERATURE

from 0°c to 45°C or from -30° to 0° *

^{*}see page 16 - 17 for Special ISAT Cold Temperature



OVERVIEW 1



AWDS
[ALL WHEEL DRIVE SYSTEM]
TECHNOLOGY

Possibility to control up to a maximum of 8 satellites with one remote control



REMOTE CONTROL



QR CODE READER*



CONTROL PANEL EQUIPPED WITH FRONT OPTICAL SENSOR AND EMERGENCY BUTTON



TRANSPORT PACKAGING



FALL PREVENTION MAGNETS*







With the dedicated mobile application (available for android devices) it is possible to unlock/lock the battery to allow air freight transport and monitor the battery status in real time





WI-FI COMMUNICATION



Ability to be integrated with the customer's WMS



VIRTUAL BUMPER



HOOK DEVICE FOR SHUTTLE RECOVERY FROM STORAGE CHANNEL*



CUSTOMISATION (STICKERS AND PAINT)*



STANDARD **EQUIPMENT**

ISAT BATTERY CHARGER (220v-50Hz or 110V-60Hz)

REMOTE CONTROL WITH RECHARGING STATION AND SPARE BATTERIES

WI-FI DATA COMMUNICATION

USER MANUAL AND REMOTE CONTROL WITH CUSTOMIZABLE LANGUAGE

PACKAGING ON WOODEN CRATE

DOUBLE SIDE SET-UP OPERATION

OVERHANG PERMITTED ON MOVEMENT SIDE (mm) - MAX 100

DISTANCE BETWEEN TWO PALLETS (mm) - FROM 30 TO 300







DISTANCE SETTING BETWEEN PALLETS

INVENTORY

SINGLE STORING/SINGLE RETRIEVING

CONTINUOUS RETRIEVING

COMPACTING TOWARDS AISLE START/END STATION

MISSIONS COUNTER

MANUAL COMMANDS

OPTIONAL EQUIPMENT

FELIPO4 48V 33A ADDITIONAL BATTERY

ADDITIONAL REMOTE CONTROL WITH CHARGING STATION

INCREASE MAXIMUM LOAD CAPACITY TO 2000 KILOS

EMERGENCY HOOK DEVICE

ISAT SUPPORT STAND

CART FOR ISAT MANUAL TRANSPORT

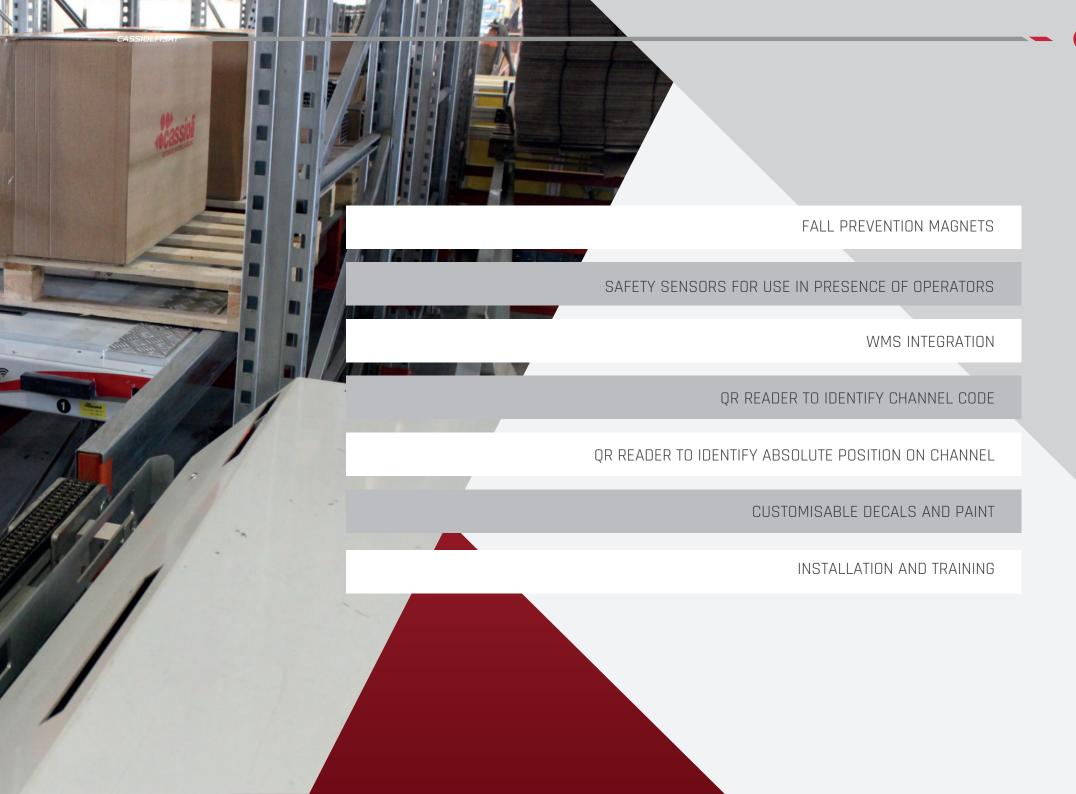
RECOMMENDED SPARES KIT

KIT FOR USE ON SYSTEMS WITH AUTOMATIC ISAT

OPERATOR CART FOR ACCESS IN LANE









TECHNICAL INFORMATION

Example L min [mm] = 260 - 2D - A + [(A + P + 2 D) X N]



Legend:

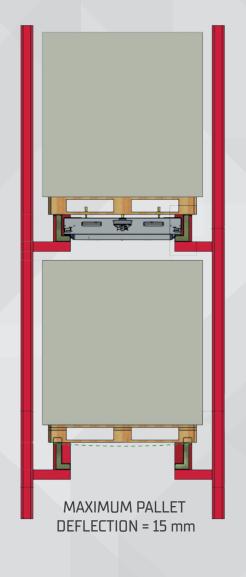
P = Pallet (Max Depth)

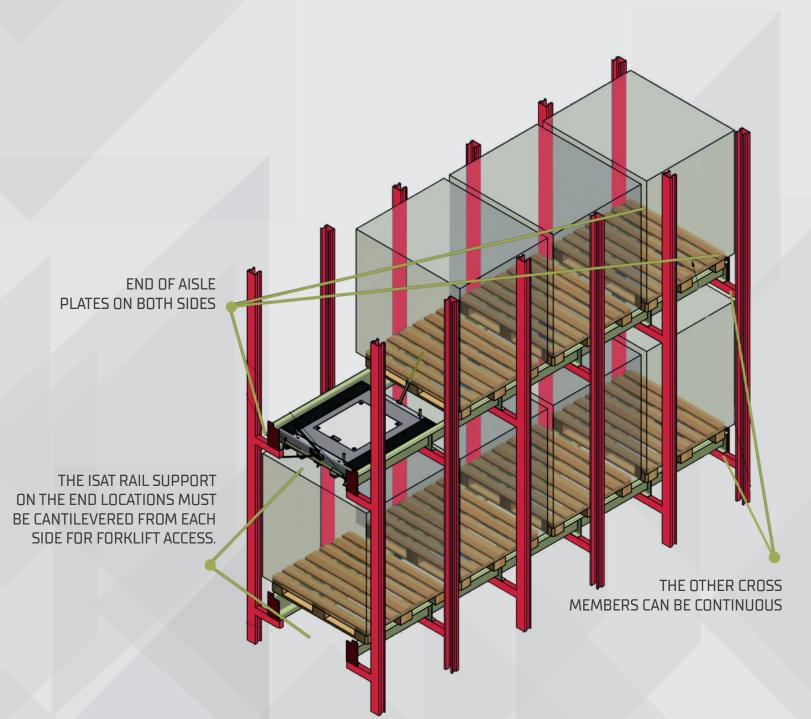
D = Overhang (Max 100 mm)

L = Aisle length

A = Distance between load units (Min 30 mm - Max 300 mm)

N = Number of pallet





**** ISAT COLD TEMPERATURE**

In particular sectors such as Food and Beverage or Pharma, it becomes essential to have satellites that work at sub-zero temperatures in cold storage rooms or warehouses at freeze temperatures. Continuous research and the use of new technologies have led to Cassioli developing specific satellites for sub-zero temperatures, ideal for frozen products, capable of handling and storing pallets, greatly improving operational efficiency in prohibitive environments.

INDIRECT CHARGING

The battery is recharged inside a compensation chamber (an environment set at a temperature of -4 ° C) in which it is possible to recharge the battery, to store it in case of inactivity and to do the ISAT maintenance operations.

Inside the compensation chamber, the battery is recharged by removing it from the shuttle, as per the standard ISAT.







HAVE THE SHUTTLE ALWAYS ON IF THERE ARE TWO BATTERIES

NEED TO HAVE A COMPENSATION CHAMBER

ISAT COLD TEMPERATURE

COLD ISATs are the ideal solution for the management of multi-depth systems, in production plants characterized by a high number of warehouse items and a high flow of deposits and withdrawals, even for highly perishable products.



INTEGRATED CHARGING

The shuttle is equipped with a specific connection allowing recharging to be done without having to remove the battery from the shuttle.

By inserting the snap-hook in the socket, the following functions automatically start:

- · Power supply to the heaters inside the battery compartment;
- Increase the temperature to +1°C of the battery compartment to start the recharging phase (a specific thermostat, placed inside the battery, does not allow recharging if this is at a negative temperature);
- · Battery recharge;
- · Maintenance of the power supply in the event of non-use.



MINUS =

NO NEED TO HAVE A COMPENSATION CHAMBER, BUT ONLY A DEDICATED SPACE INSIDE THE CELL IMPOSSIBLE TO USE THE PALLET SHUTTLE
DURING THE RECHARGING PHASE



