

# APS



**It is a system that picks up products that customers require quickly and accurately through an automated method**

# APS(Auto Picking System)

Automatic Picking System (APS) collects all items from individual orders at the highest throughput rates. It not only speeds up the picking process with each piece, but also easily combines with various systems in process line that allows handling possible for nearly every product. APS is very well known for its sophisticated system, especially in the pharmaceutical industry for its capability of handling small pieces of items rather than large items, as customer's demand on multiple orders increase. SMC's APS maximizes productivity and optimizes the material flow in the warehouse, which will bring the highest level of quality in logistics systems.

## Basic Specification

- ✓ No. of Channel : Max. 72 channel/module (36 channel per side)
- ✓ No. of Module : Varies upon request
- ✓ Dispensing Speed : 2-6 pcs/sec
- ✓ Product weight : 10g-800g
- ✓ Driving controller : SMC controller



## Benefit

- ✓ Fast & accurate item picking
- ✓ Maximized throughput
- ✓ Streamlined order fulfillment process
- ✓ Less manpower & paperless picking process
- ✓ Real-time & high-level inventory management
- ✓ Simplification, reliability and flexibility of application
- ✓ Enhanced cost-effectiveness & productivity
- ✓ More powerful productivity with dual filling or multi layer

# Components

## ➤ Main Component



### Conveyor Belt

Located at the bottom of the A-shaped module, the object ejected by ejector is transferred to the collecting device.



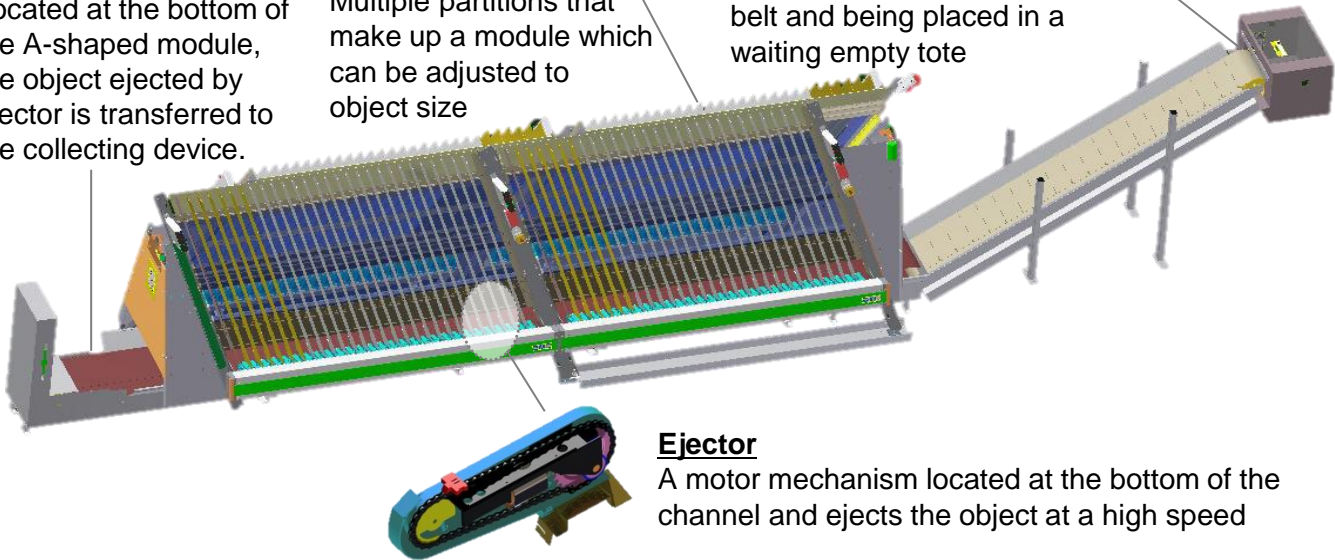
### Channel

Multiple partitions that make up a module which can be adjusted to object size



### Filling Device

A device for conveying the object through an inclined belt and being placed in a waiting empty tote



### Ejector

A motor mechanism located at the bottom of the channel and ejects the object at a high speed

## ➤ Others



### APS Controller

MPS control monitoring connected to each channel Connected to PC for data transmission.



### Monitoring PC

Transmission work order with APS controller, tote data and Picking data



### MPS

Module Power Supply DC40V Power supply for eject motor and eject detection device with UPS function



### Cell Controller

Managed with 4 ejector motors. Eject detection device function