

## Application of Rotary Encoder & Linear Sensor in Automated Storage & Retrieval System

An automated storage and retrieval system (ASRS or AS/RS) consists of a variety of computer-controlled systems for automatically placing and retrieving loads from defined storage locations. Automated storage and retrieval systems (AS/RS) are typically used in applications where:

- There is a very high volume of loads being moved into and out of storage
- Storage density is important because of space constraints
- No value is added in this process (no processing, only storage and transport)
- Accuracy is critical because of potential expensive damages to the load

**Working** : Automated storage and retrieval systems, sometimes known as ASRS or AS/RS, are made of a variation of computer-controlled systems that automatically place and retrieve loads from set storage locations in a facility with precision, accuracy and speed. Each type of AS/RS operates in slightly different ways, all with the goal of speeding up warehouse processes. Each type of system outlined above automates the process of storing products in appropriate bins, shelves or other storage locations or retrieving items or loads from storage areas. They reduce the time and manpower needed to retrieve and store items.

**Rotary encoders** are used to measure speed in Roller conveyor and synchronizing conveyors for pick-and-place operations. **Rotary Encoder & Linear Sensors** are used for vertical & horizontal positioning of arm & accurate monitoring of arms.

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Rotary & Linear Encoder

