Smart Mechatronics Core

CASE STUDY_PAPER

HANKUK PAPER

Hankuk Paper

Company Introduction

Printing paper-specialized manufacturer who has led the filed since the foundation in 1958. Hankuk paper is stepping to be global enterprise, and need to manage increased volume of sheets more accurately as well as in safe. With this intention, the introduction of automated storage system enables the storage capability to be amazingly improved and keep the product quality in the best.

PROJECT OVERVIEW

Company	Hankuk Paper
Location	Dongtan , Korea
Load	Paper
ASRS Storage Capacity	11,880 cells
Rack	Rack supported building (load beam type) W 27.6 x L 89.9 x H 32.3 (M)
Stacker Crane	6 vehicles
Automated Materials Handling Equipment	RGV 1 set, Conveyor 1 lot

EQUIPMENT SPECIFICATION

Stacker Crane

- Traveling speed: Max. 180 m/min
- Throughput: Input: 62 pallet / Hr, Output: 154 pallet/Hr
- Stability of load handing through smooth acceleration & deceleration controls by S-Curve

RGV (Rail Guided Vehicle)

- Traveling speed: 120 m/min
- Loading speed: 12 m/min
- Shuttle type, Accurate positioning by an encoder

Conveyor

- Conveyor Type: Chain, & Roller conveyor
- Handling 960W x 1280L x 1400/ 1600/ 1700H
- Handling weight: Max. 1,500kg
- Controller: PLC