

H & B Tech

Engineering Automation & Material Handling Project Portfolio

Delivering Smart, Reliable & Efficient Industrial Automation Solutions

H & B Tech provides advanced industrial automation, material handling, and engineering solutions designed to improve operational efficiency, safety, and system reliability.

With hands-on experience in automation projects, we deliver complete solutions including system design, installation, PLC-based control, commissioning, troubleshooting, and maintenance support.

Our portfolio represents our capability in handling complex industrial automation environments with a strong focus on performance, accuracy, and long-term reliability.

Featured Projects

1. ETV (Elevating Transfer Vehicle) System

Automated Material Transfer Solution

H & B Tech provides PLC-controlled ETV systems designed for automated transportation, storage, and handling applications.

Our ETV solutions ensure accurate movement, smooth operation, and safe material transfer through advanced control logic and safety systems.

Key Features:

- PLC-based automatic and manual operation control
- Precise horizontal and vertical movement control
- Sensor-based positioning and safety monitoring
- Drive and motor system optimization
- Fault diagnosis and troubleshooting support
- Safety interlock and emergency protection system
- Preventive and corrective maintenance support

Benefits:

- Reduced manual handling
 - Improved operational efficiency
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- Higher system reliability
- Safe and continuous operation



2. SRM (Storage & Retrieval Machine) System

Automated Storage & Retrieval Solution

H & B Tech delivers intelligent SRM automation solutions for high-performance storage and retrieval operations.

Our SRM systems are integrated with PLC control, sensors, drives, and safety systems to achieve accurate and reliable warehouse operations.

Key Features:

- PLC-controlled SRM operation
- Automatic storage and retrieval process
- Position control using sensors and encoders
- Auto / Manual operating modes

- Safety zone monitoring and interlock logic
- Drive, motor, and control system optimization
- Technical troubleshooting and maintenance support

Benefits:

- Increased storage efficiency
- Accurate material handling
- Reduced operational downtime
- Reliable long-term performance



3. Dock Leveler System

Efficient Loading & Unloading Solution

H & B Tech provides automated Dock Leveler solutions for safe and efficient loading and unloading operations.

The system is designed to maintain proper alignment between loading platforms and vehicles, ensuring smooth material movement.

Key Features:

- Hydraulic / mechanical control system integration
- Safe loading and unloading operation
- Limit switch and sensor-based control
- Safety monitoring system
- Control panel integration
- Maintenance and troubleshooting support

Benefits:

- Improved loading efficiency
- Enhanced workplace safety
- Reduced equipment damage
- Smooth logistics operation



4. Chain Conveyor System

Heavy-Duty Material Handling Solution

H & B Tech designs and implements reliable Chain Conveyor systems for industrial material transportation.

These systems are customized according to operational requirements for continuous and stable movement.

Key Features:

- Industrial-grade chain conveyor design
- PLC-based automation control
- Motor and drive integration
- Sensor-based detection system
- Emergency stop and safety circuit
- Installation and commissioning support

Benefits:

- Continuous material flow
- High durability
- Low maintenance requirement
- Reliable operation



5. Belt Conveyor System

Automated Transportation System

H & B Tech provides belt conveyor solutions for efficient movement of products and materials across industrial facilities.

Key Features:

- Conveyor layout design and installation
- Belt drive system integration
- PLC and HMI control
- Speed control and monitoring
- Safety sensor integration
- System testing and commissioning

Benefits:

- Smooth material transportation
- Improved production efficiency
- Reduced manual workload
- Flexible industrial application



6. ASRS Rack System

(Automated Storage & Retrieval System)

Smart Automated Storage Solution

H & B Tech develops ASRS solutions integrated with conveyors, stacker cranes, PLC control, and warehouse management systems.

The system enables automatic storage and retrieval of materials with accurate tracking and controlled movement.

Key Features:

- Automated storage and retrieval operation
- PLC-controlled stacker crane system
- Barcode / HHT-based identification
- WCS integration
- Auto and Manual operation modes
- Safety zone and interlock control

Benefits:

- Maximum storage utilization
- Reduced human involvement
- Improved inventory accuracy
- Faster warehouse operation



7. ULD Rack System

(unit Load Device)

Aviation Cargo Storage Solution

H & B Tech provides ULD Rack solutions designed for efficient aircraft cargo container storage and handling.

The system ensures organized storage, easy accessibility, and safe cargo management.

Key Features:

- Strong structural rack design
- ULD positioning and storage support
- Efficient space utilization
- Safe loading and unloading process
- Integration with cargo handling systems

Benefits:

- Organized cargo management
- Improved operational workflow
- Reduced handling time
- Increased storage capacity



8. Industrial Workstation Setup

Customized Engineering Workspace Solution

H & B Tech designs and develops industrial workstations suitable for automation, maintenance, production, and operational requirements.

Key Features:

- Customized workstation design
- Electrical and control equipment arrangement
- Ergonomic working environment
- Cable management solution
- Equipment integration support

Benefits:

- Improved operator efficiency
- Better workplace organization
- Enhanced safety and productivity



9. Server System & Industrial IT Infrastructure

Reliable Industrial Network Solution

H & B Tech provides server system setup and industrial IT infrastructure support for automation and control environments.

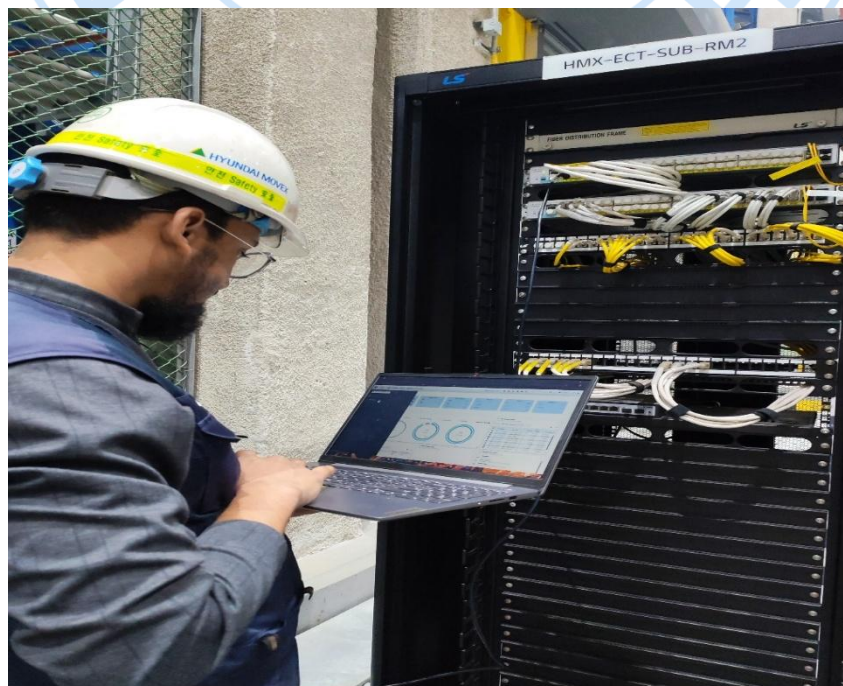
We ensure stable communication between automation equipment, monitoring systems, and operational networks.

Key Features:

- Server installation and configuration
- Industrial network setup
- System integration support
- Data communication management
- Backup and system maintenance

Benefits:

- Reliable system connectivity
- Improved monitoring capability
- Secure data management
- Better operational control



Our Engineering Capabilities

- Industrial Automation Solution
 - PLC Programming & Control System
 - HMI Design & Development
 - Electrical Panel Design & Installation
 - Conveyor Automation
 - Material Handling System
 - System Commissioning
 - Preventive & Corrective Maintenance
 - Fault Diagnosis & Troubleshooting
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Industries We Serve

- Airports & Aviation Facilities
 - Logistics & Distribution Centers
 - Warehousing Systems
 - Manufacturing Industries
 - Industrial Automation Projects
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Why Choose H & B Tech

- ✓ Experienced Engineering Team
 - ✓ Customized Automation Solutions
 - ✓ Reliable Project Execution
 - ✓ Safety-Focused Engineering Approach
 - ✓ End-to-End Technical Support
 - ✓ Long-Term Maintenance Assistance
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Build Your Future with Smart Automation

H & B Tech delivers innovative automation and material handling solutions that improve productivity, reliability, and operational excellence.

H&B Tech COMPANY

H&B Tech is a forward-thinking technology company specializing in innovative automation and smart system solutions. Our mission is to deliver efficiency, reliability, and advanced tech integration for modern industries.

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Contact H & B Tech for your next automation project.