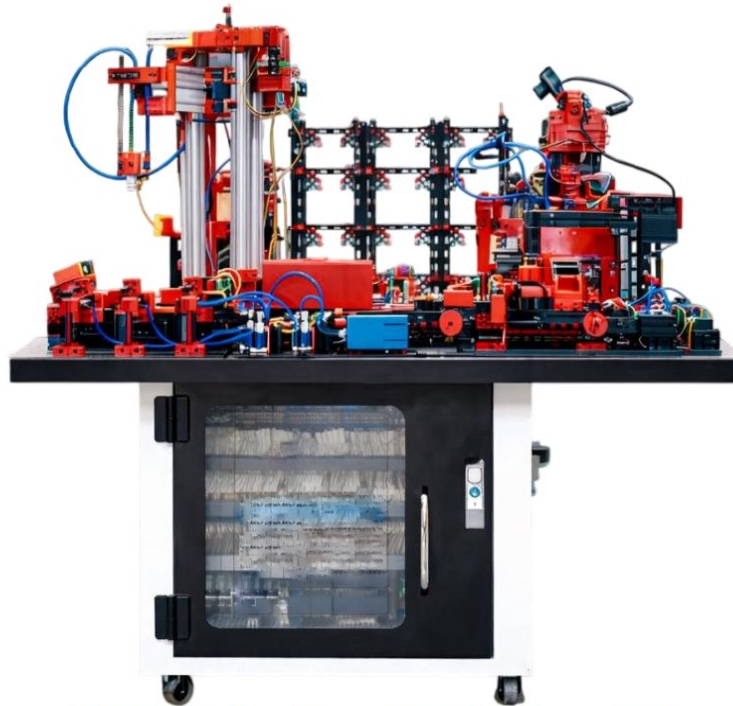


## WAREHOUSE STORAGE & SHIPPING PROCESS STATION



*PHOTO: Warehouse Storage & Shipping Process Station  
(image for reference only, actual product may differ)*

### SYSTEM OVERVIEW

The **Warehouse Storage & Shipping Process Station** is an advanced smart-factory training system designed to simulate automated storage, handling, and shipping operations used in modern industrial environments. The system is suitable for educational use while also being capable of producing commercially usable outputs, ensuring robustness and operational stability expected from industrial training equipment.

The station integrates conveyor transport, warehouse storage modules, smart sensors, PLC-based control, IoT-enabled monitoring, and smart vision inspection into a unified automation platform. All operational functions can be centrally managed through dedicated software that enables data acquisition, storage, monitoring, and real-time visualization of process performance.

The system supports supervision, maintenance, and workplace safety management while allowing performance upgrades and expansion. Using IoT-based convergence technologies such as software, communication networks, sensors, and automatic control, the station optimizes manufacturing and logistics processes.

The equipment is fully enclosed in a protective housing with structured routing of electrical and pneumatic connections through ducts and cable chains. All components supplied are brand-new and unused.

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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## WAREHOUSE STORAGE & SHIPPING PROCESS STATION

### TECHNICAL SPECIFICATIONS

| Sl. No. | Item Name   | Technical Specifications  | Qty   |
|---------|---|---|-------|
| 1       | <b>Storage Warehouse Module</b>                               | Sliding-type storage system for finished products; minimum 10 storage sliders; item detection sensor provided for each slider.  | 1 ea  |
| 2       | <b>Outbound Transfer Conveyor</b>                             | PVC belt $\geq 0.8 \times 86 \times 826$ mm; PLC-based constant/speed control using analog I/O and inverter closed-loop control; AC motor 220 V; $\geq 4$ ball bearings; motor mounting bracket; AL6061 pulley transmission; drop prevention stoppers.  | 1 ea  |
| 3       | <b>Inverter Unit</b>  | Input single phase 220–240 V; motor capacity 0.1 kW; apparent power 0.3 kVA; output current 0.8 A; output voltage 3 phase 200–240 V; Soft PWM & high carrier PWM control; dual analog inputs; panel/parameter setting; IP20 enclosure; natural air cooling.   | 1 ea  |
| 4       | <b>Circuit Wiring Verification &amp; Measuring Instrument</b> | Digital multifunction safety tester with AC/DC voltage, insulation resistance, earth resistance (2/3 point), ground voltage, leakage current, phase rotation, voltage detection; AC 0–750 V True RMS; DC 0–1000 V; insulation up to 1000 M $\Omega$ ; earth resistance up to 2000 $\Omega$ ; Bluetooth 4.0 connectivity; wireless monitoring software; Excel data export; remote measurement control.                           | 1 ea  |
| 5       | <b>Equipment Operation Control Section</b>                    | Main power switch; AUTO/MANUAL selector; 2 push buttons; emergency stop; 2 pilot lamps; buzzer.   | 1 set |
| 6       | <b>Station Case</b>   | 600 $\times$ 810 $\times$ 1900 mm aluminum profile frame; upper/lower separation; double doors front & rear; transparent protective cover; blue panels; 4 lockable casters; 3-color tower light; control shelf; built-in SMPS DC 24 V $\geq 2$ A; integrated area sensors (5–7 stations).   | 1 ea  |
| 7       | <b>Vision Camera &amp; Lighting</b>                           | Smart vision camera with onboard processor; 1/3" CMOS color; M12 lens (6.2 mm AF or 8 mm MF); 640 $\times$ 480 & 800 $\times$ 600 modes; LED ring illumination; tools: pattern, edge, circle, pixel count, brightness, OCR, blob; outputs pass/fail & numeric; protocols TCP/IP, UDP, FTP, Telnet, RS232C; industrial protocols OPC UA, EtherNet/IP, PROFINET, Modbus TCP, CC-Link; IP65 housing; 24 VDC $\pm 10\%$ , 48 W max. | 1 ea  |
| 8       | <b>Vision Emulation Tool</b>                                  | Spreadsheet-based no-code interface; network discovery; vision tools (defect, OCR, pattern); geometry/math/text functions; coordinate transformation; SDK (C#); Ethernet/serial I/O; runtime data storage and analysis; VDA extraction.   | 1 ea  |
| —       | <b>Accessories</b>  | Power cable; communication cable set; system build software; training textbook; Ethernet cable (M12–RJ45); M12 PoE cable; emulation license certificate.  | 1 lot |

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## WAREHOUSE STORAGE & SHIPPING PROCESS STATION

### RANGE OF EXPERIMENTS

- Automated warehouse storage and retrieval operations
- Conveyor-based outbound product transfer
- Inverter-based motor speed control
- PLC-based warehouse management logic
- Smart vision-based inspection and verification
- Data acquisition and monitoring using IoT technologies
- Electrical safety testing and measurement procedures
- SCADA-based monitoring and control
- Integrated logistics and dispatch simulation
- Industrial communication and system integration

### FEATURES

- Smart-factory compatible warehouse and shipping system
- Sliding storage module with multi-position detection
- PLC and inverter-based conveyor control
- Integrated electrical safety testing instrument
- Smart vision inspection with industrial protocol support
- Real-time monitoring via SCADA and mobile devices
- Fully enclosed safety housing with cable duct routing
- Modular and upgradeable architecture
- Suitable for Industry 4.0 logistics and manufacturing training

### SERVICES REQUIRED

- Standard **230 V AC** power supply
- Proper earthing/grounding required

➤ **Note: All specifications are subject to revision without notice. Depicted images are for reference only and may not represent the actual product.**

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