EOSLIFT
Automation Technology Corp.
Company Introduction

Eoslift Automation Technology Corp.

**Description:** The company began as a material handling equipment manufacturing and trade business. Today, the company has developed into a systems integrator, providing solutions, services, and equipment.

**Core Business:** Intelligent warehousing and intra-logistics solutions, intelligent material handling equipment manufacturing, and industrial robotic systems for packaging and machine handling.

**Legal Representative:** Yuejin Jiang (Andy)

**Address:** No. 99, Yanjin Road, WangHai District, Haiyan, Zhejiang, 314317

**Phone:** +86 0573 86229999

**Website:** http://www.eoslift.cn

**Founded:** 2008

**Stock Exchange:** National Equities Exchange and Quotations

**Headcount:** Approx. 300 (FY2018/10 Consolidated)

**2008**
- Founded, produced the first electronic scale truck

**2011**
- Launched and built its first 650,000 sq.ft manufacturing site

**2012**
- Established Eoslift USA Corp., developed markets in North America.

**2013**
- Developed solution business in intelligent warehousing; established HYGRACE

**2014**
- Enterprise shareholding system reform; renamed as Eoslift Warehouse Equipment Co., Ltd

**2015**
- Listed on the NEEQ as public company, raised more than 110 million RMB in two rounds of financing; the second manufacture site launched for intelligent warehousing business

**2016**
- Renamed as Eoslift Automation Technology Co. Ltd, and acquired JXSS Robotics company

**2017**
- Established Logbot to develop the logistics technology

**2018**
- Rated as the "Zhejiang Patent Demonstration Enterprise"; and acquired Blueman software company. Anhui Eoslift logistics robot co., LTD was established

**Tickler** 831758 (22-01-2015)
Company Structure

EOSLIFT Automation Technology Corp.

- Eoslift USA Corporation
  California, United States

- Jiaxing Blueman Warehousing Software Co., Ltd. (Jiaxing)

- Hygrace Technology Co., Ltd. (Jiaxing)

- Shanghai JXSS Robotic Systems Co., Ltd. (Shanghai)

- Logbot (Shanghai) Logistic Technology Co., Ltd. (Hefei, Anhui)

- Eoslift AGV Robotic Co., Ltd.

Core Business:
- North America Sale and after-sale service
- warehousing management and control system
- Embedded Software Development and core components and parts R&D
- Robot system integration specific on Palletizing and Depalletizing technology
- Robot as the core of logistics sorting and storage solutions
- AGV R&D and production
Company Strengths

**INCOME**
- 30+ Million USD (2018 results)

**PATENTS**
- 260+ (by end of Dec. 2018)

**EMPLOYEES**
- 300+ (here is the number of workers by the end of Oct 2018)
- 20+ Masters
- 80+ Undergraduates
- 100+ Professional

**INCOME**
- 30+ Million USD (2018 results)

**PATENTS**
- 260+ (by end of Dec. 2018)

**PROJECTS**
- 100+ (by end of Dec 2018)

**RESEARCH AND DEVELOPMENT**
- 10%+ revenue

**About our clients?**
Our clients are distributed in various fields and include:

Fortune 500 companies

[Logos of various companies]
- Develop, produce and sell high-end material handling equipment
- Integrated solution supplier of intelligent warehousing logistics centering on robot system integration and based on automatic stereoscopic warehouses.
Core Product: Eoslift Material Handling Equipment

**Pallet Truck**
- L16
- W16/20
- W16/20
- W15E
- E20V
- M25/30

**Stackers**
- L16
- Y12
- T16
- S15
- H10/15

**HISTORY**
- 10+ Years (before EOSLIFT establishment)

**DISTRIBUTION CHANNELS**
- 3 in total (domestic, abroad, eBay, Amazon)

**TYPES & KINDS**
- 2 types & 11 kinds
  - A. pallet truck, 6
  - B. stacker, 5

**COUNTRIES & REGIONS**
- 60 (for foreign trade)

The proportion of product sales revenue:
- 65%
- 20%
- 10%
- 5%

- Pallet truck
- Stacker
- Reach Stacker
- Platform Stacker
Core Product: Eoslift Material Handling Equipment

Product Features

**Reliability**
- Designed to the highest security level in Europe, installed with corresponding components
- Anti-slip; more stable
- Strong bearing capacity
- Wears well over time

**Security**
- Emergency reversing device and emergency brake function
- High-strength arm protection design, to ensure safe operation of driver
- Curve control technology; more accurate and secure turns
- Pedal folded automatically reduces travel
- Operation and maintenance cost is low

**Intelligent**
- Equipped with LIONMAN fleet management system, which has functions of operator authority management, on-line monitoring of truck conditions, release of notification information, and generates a comprehensive report

**Comfort**
- Ergonomically designed handle with accessible buttons, reducing operator fatigue
- Exceptional maneuverability in extremely confined areas, ensured by creep speed button

**High Efficiency**
- High-capacity battery ensures excellent life cycle
- Low-battery locking function extends the battery life
- Electromagnetic and regenerative braking system, greatly improves efficiency
- Low operation and maintenance cost

- Cost effective
- Consistent and Reliable Quality
- Ergonomic Design
Core Product: Eoslift AS/RS Solutions

This stacker is a kind of automatic material handling equipment, and is the core component of our stereoscopic warehouses. Stereoscopic warehouses can improve the utilization ratio of large unit areas, increase labor productivity, reduce labor intensity and production cost, reduce errors in goods and information processing, reasonably and effectively carry out inventory management control of materials, better meet the needs of special warehousing environment, improve operation quality, ensure the safety of goods in the whole warehousing process, and make it easy for system integrations of other technology.

Fast and Efficient
- Fast running speeds, but highly reliable and accurate

High Security
- Secure design with European standards components
- Meets European standards and measures

Perfect Hardware Configuration
- Manges well under various environment and temperature conditions (i.e. cold storage units of up to -30℃)

Energy Units can be Replaced and Recycled
- Minimizes the number of parts
- Long running service life
- Low operation and maintenance costs

Hoist Rope
6 times the safety factor design, uses imported non-lubricating wire rope

Trapper
Exceptional rapid lifting technology. Effectively clamps the loading platform on the upright guide rail
## Core Product: Eoslift AS/RS Solutions

### Technical Parameters

<table>
<thead>
<tr>
<th>Conventional Stacker ES</th>
<th>Light Stacker EM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Load Capacity</strong></td>
<td>20-200 kg</td>
</tr>
<tr>
<td>500-1500 kg</td>
<td></td>
</tr>
<tr>
<td><strong>Maximum Height</strong></td>
<td>3-8 m</td>
</tr>
<tr>
<td>7-25 m</td>
<td></td>
</tr>
<tr>
<td><strong>Travel Speed</strong></td>
<td>220 m/min</td>
</tr>
<tr>
<td>180 m/min</td>
<td></td>
</tr>
<tr>
<td><strong>Travel Acceleration</strong></td>
<td>0.8 m/s²</td>
</tr>
<tr>
<td>0.35 m/s²</td>
<td></td>
</tr>
<tr>
<td><strong>Hoisting Speed</strong></td>
<td>60 m/min</td>
</tr>
<tr>
<td>60 m/min</td>
<td></td>
</tr>
<tr>
<td><strong>Hoisting Acceleration</strong></td>
<td>0.5 m/s²</td>
</tr>
<tr>
<td>0.5 m/s²</td>
<td></td>
</tr>
<tr>
<td><strong>Fork Speed</strong></td>
<td>30/60 m/min</td>
</tr>
<tr>
<td>30/60 m/min</td>
<td></td>
</tr>
<tr>
<td><strong>Product Features</strong></td>
<td></td>
</tr>
<tr>
<td>• (Optional) Double extension fork to improve storage density</td>
<td>• (Optional) Dual-drive asynchronous servo system to optimize product performance</td>
</tr>
<tr>
<td>• Vertical double wire rope hoist can improve the lifting safety of the cargo platform</td>
<td>• (Optional) Cargo platform explosion-fire extinguishing system lithium battery storage is the best choice</td>
</tr>
<tr>
<td>• The double closed loop control system can realize the quick start, quick stop and precise positioning of the stacker, and the servo control effect can be achieved.</td>
<td></td>
</tr>
</tbody>
</table>

### conventional Stacker ES

- **Maximum Load Capacity**: 500-1500 kg
- **Maximum Height**: 7-25 m
- **Travel Speed**: 180 m/min
- **Travel Acceleration**: 0.35 m/s²
- **Hoisting Speed**: 60 m/min
- **Hoisting Acceleration**: 0.5 m/s²
- **Fork Speed**: 30/60 m/min

### Light Stacker EM

- **Maximum Load Capacity**: 20-200 kg
- **Maximum Height**: 3-8 m
- **Travel Speed**: 220 m/min
- **Travel Acceleration**: 0.8 m/s²
- **Hoisting Speed**: 60 m/min
- **Hoisting Acceleration**: 0.5 m/s²
- **Fork Speed**: 30/60 m/min
## Core Product: Eoslift AS/RS Solutions

### Technical Parameters

<table>
<thead>
<tr>
<th>Overweight/Ultra High Stacker EH</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Load Capacity</td>
<td>2000-8000kg</td>
</tr>
<tr>
<td>Maximum Height</td>
<td>25-35 m</td>
</tr>
<tr>
<td>Travel Speed</td>
<td>120/160m/min</td>
</tr>
<tr>
<td>Travel Acceleration</td>
<td>0.35 m/s²</td>
</tr>
<tr>
<td>Hoisting Speed</td>
<td>60 m/min</td>
</tr>
<tr>
<td>Hoisting Acceleration</td>
<td>0.3/0.5 m/s²</td>
</tr>
<tr>
<td>Fork Speed</td>
<td>30/60 m/min</td>
</tr>
</tbody>
</table>

**Product Features**
- Variable sections of double columns technology adopted. Inertia momentum and strength of column sections improved; stability of stacker vastly increased.
- Many parts that require maintenance installed at the bottom of machine for easy access and repairs.

### Transfer StackerEP

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Load Capacity</td>
<td>500-8000kg</td>
</tr>
<tr>
<td>Maximum Height</td>
<td>7-25 m</td>
</tr>
<tr>
<td>Travel Speed</td>
<td>120 m/min</td>
</tr>
<tr>
<td>Travel Acceleration</td>
<td>0.35 m/s²</td>
</tr>
<tr>
<td>Hoisting Speed</td>
<td>30 m/min</td>
</tr>
<tr>
<td>Hoisting Acceleration</td>
<td>0.5 m/s²</td>
</tr>
<tr>
<td>Fork Speed</td>
<td>30/60 m/min</td>
</tr>
</tbody>
</table>

**Product Features**
- Through 2-4 roadways, it can handle 4-8 rows of shelves to improve high-density storage;
- Double station cargo platform is optional, with 2 independent cargo forks, one operation can handle two stations of products.
Core Product: Eoslift Transport System (Conveyors)

Our intelligent transport systems could be connected with stereoscopic warehouses, and is designed with various conveyors, automatic guided vehicle (AGV) and rail guided vehicle etc. for linear, curved, or vertical transporting of storage units. We are capable of developing different transport solutions depending on goods input/output mode of stereoscopic warehouse.

Eoslift integrated transport system is highly flexible and easy to assemble and maintain. In order to minimize failure rate, our equipment is designed with straightforward structure, which has lower requirement for operator’s competence. Eoslift works with outstanding upstream suppliers to integrate reliable and durable mechanical equipment for various internal logistics areas such as pallet transport system, storage bin transport system and carton transport system; perfect performance is enhanced by low noise and efficient operation.

Features: Reliable operation with low power consumption and strong adaptability and flexibility of transmission lines.

Applicable: Conveys materials from the initial feeding point to the final one on a specific conveyor line.

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Features: Widely used in the logistics system: fast speed, low cost, all in a limited space to achieve reciprocating movement.

Applicable: Mainly used in high-speed and efficient plane automatic conveying of unit materials in automatic logistics system.

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Features: Simple structure, high reliability, easy to use and maintain. Large throughput, fast speed, light operation, can achieve multi-species collinear diversion.

Applicable: All kinds of boxes, bags, pallets and other product transport, bulk, small items, or irregular items on the pallet or turnover box transport. Pallets can be loaded and unloaded by forklifts.

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Features: Chain conveyor has large transportation capacity, various conveying chain structures, and a variety of accessories, which makes it easy to achieve storage and conveying.

Applicable: It can be used as assembly line or storage and transportation of materials, conveying pallets, large turnover boxes, etc.
## Comparison of Mainstream AGV Navigation Modes

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Usage Scenarios</strong></td>
<td>Workshop Internal</td>
<td>Indoor</td>
<td>Relatively Fixed Interior</td>
</tr>
<tr>
<td><strong>Reference</strong></td>
<td>Magnetic Stripe + RFID</td>
<td>Reflector</td>
<td>The Surrounding Environment</td>
</tr>
<tr>
<td><strong>Positioning Accuracy</strong></td>
<td>±10mm</td>
<td>±15mm</td>
<td>±15mm</td>
</tr>
<tr>
<td><strong>Conventional Speed</strong></td>
<td>0-40m/min</td>
<td>0-72m/min</td>
<td>0-72m/min</td>
</tr>
<tr>
<td><strong>Advantage</strong></td>
<td>AGV positioning is accurate, the path laying, change or expansion of the electromagnetic navigation is relatively easy. Magnetic strip costs less. In the human-computer interaction environment, it is better to avoid obstacles by using laser.</td>
<td>Accurate AGV positioning: No other locating facilities are required on the ground. The driving path can be flexible, can adapt to a variety of on-site environments. It is the advanced navigation method preferred by many AGV manufacturers at home and abroad. No additional equipment is required for the environment and the route is easy to extend. Dispatch and avoidance is more flexible.</td>
<td>Accurate positioning, ground without other positioning facilities, suitable for a variety of production and work environment. Autonomous positioning, autonomous decision-making, automatic path planning and flexible obstacle avoidance.</td>
</tr>
</tbody>
</table>
Core Product: EOSLIFT AGV (Automated Guided Vehicle)

EOSLIFT AGV SYSTEM - Customization + Three in One + Efficient Scheduling + Intelligent Charging

- **Truck Types**
  - Forklift type
  - Backpack type
  - Latent type

- **Navigate Modes**
  - VSLAM navigation
  - Laser feedback navigation
  - SLAM navigation
  - Magnetic stripe navigation
  - QR code navigation
  - Hybrid navigation

- **Chassis Structure**
  - Steering wheel
  - Differential
  - Mecanum Wheel

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- **Raw Material Transportation**
  AGV transports the corresponding raw materials from the storage area to the production lines according to the upper system (latent AGV with drum)

- **Pallet Transportation**
  AGV lifts pallet-load from the production line or warehouse area to the designated area. It is mainly used in the production industry or warehousing transit. (Carry-type AGV, Stacking AGV)

- **Process Assembly**
  According to upper system instructions, AGV load components from one process to another for assembly (latent AGV)

- **Transportation of Finished Products**
  AGV loads finished products and transports them from production line to designated storage area or loading and unloading terminal

- **Special Scene Transportation**
  AGV load production line to enter scenarios that people can’t access, such as refrigerators, high temperature zones (customized refrigerators, explosion-proof AGV, etc.)
## Technical Parameters

<table>
<thead>
<tr>
<th>Model: TL16</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Max. lift Height</strong></td>
<td>3600mm</td>
</tr>
<tr>
<td><strong>Rated Capacity</strong></td>
<td>1600kg</td>
</tr>
<tr>
<td><strong>Overall Length</strong></td>
<td>2250mm</td>
</tr>
<tr>
<td><strong>Overall Width</strong></td>
<td>830mm</td>
</tr>
<tr>
<td><strong>Tuning Radius</strong></td>
<td>1725mm</td>
</tr>
<tr>
<td><strong>Navigation Modes</strong></td>
<td>laser SLAM</td>
</tr>
<tr>
<td><strong>Positioning Accuracy</strong></td>
<td>±5mm (Higher accuracy requires secondary positioning)</td>
</tr>
<tr>
<td><strong>Non-contact Sensor</strong></td>
<td>Beiyang safety protection lidar</td>
</tr>
<tr>
<td><strong>Contact Sensor</strong></td>
<td>Conductive rubber</td>
</tr>
<tr>
<td><strong>Sound and Light Warning Template</strong></td>
<td>Sound and light cues</td>
</tr>
<tr>
<td><strong>Wireless Network</strong></td>
<td>Industrial-grade WIFI</td>
</tr>
<tr>
<td><strong>System Interface</strong></td>
<td>Reserved MES, scheduling system interface</td>
</tr>
<tr>
<td><strong>Fork Length mm</strong></td>
<td>1150mm</td>
</tr>
<tr>
<td><strong>Width of Single Fork</strong></td>
<td>185mm</td>
</tr>
<tr>
<td><strong>Outside of Two Forks is Wide</strong></td>
<td>565mm</td>
</tr>
<tr>
<td><strong>Travel Speed m/min</strong></td>
<td>≤120m/min</td>
</tr>
<tr>
<td><strong>Walk Way</strong></td>
<td>Forward, backward, turn</td>
</tr>
<tr>
<td><strong>Climbing Ability</strong></td>
<td>8%/10%</td>
</tr>
<tr>
<td><strong>Battery Type</strong></td>
<td>Lithium battery/lead-acid battery</td>
</tr>
<tr>
<td><strong>Battery Capacity</strong></td>
<td>150/280AH</td>
</tr>
<tr>
<td><strong>Charging Way</strong></td>
<td>Automatic line charging/manual charging</td>
</tr>
</tbody>
</table>
## Technical Parameters

**Core Product: EOSLIFT AGV**

**Model:** GL20

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>System Interface</th>
<th>Reserved MES, scheduling system interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. lift Height</td>
<td>205mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated Capacity</td>
<td>2000kg</td>
<td>Fork Length mm</td>
<td>1150mm</td>
</tr>
<tr>
<td>Overall Length</td>
<td>1980mm</td>
<td>Ground Clearance</td>
<td>30mm</td>
</tr>
<tr>
<td>Overall Width</td>
<td>830mm</td>
<td>Outside of Two Forks is Wide</td>
<td>565mm</td>
</tr>
<tr>
<td>Tuning Radius</td>
<td>1775mm</td>
<td>Width of Single Fork</td>
<td>175mm</td>
</tr>
<tr>
<td>Navigation Modes</td>
<td>laser SLAM</td>
<td>Travel Speed m/min</td>
<td>≤120m/min</td>
</tr>
<tr>
<td>Positioning Accuracy</td>
<td>±5mm(Higher accuracy requires secondary positioning)</td>
<td>Walk Way</td>
<td>Forward, backward, turn</td>
</tr>
<tr>
<td>Non-contact Sensor</td>
<td>Beiyang safety protection lidar</td>
<td>Climbing Ability (full load/no load)</td>
<td>8%/10%</td>
</tr>
<tr>
<td>Contact Sensor</td>
<td>Conductive rubber</td>
<td>Battery Type</td>
<td>Lithium battery/lead-acid battery</td>
</tr>
<tr>
<td>Sound and Light Warning Template</td>
<td>Sound and light cues</td>
<td>Battery Capacity</td>
<td>150/280AH</td>
</tr>
<tr>
<td>Wireless Network</td>
<td>Industrial-grade WIFI</td>
<td>Charging Way</td>
<td>Automatic line charging/manual charging</td>
</tr>
</tbody>
</table>
# Core Product: EOSLIFT AGV

## Technical Parameters

### Model: BM12

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Capacity</td>
<td>1200kg</td>
</tr>
<tr>
<td>Overall Length</td>
<td>1740mm</td>
</tr>
<tr>
<td>Overall Width</td>
<td>1505mm</td>
</tr>
<tr>
<td>Tuning Radius</td>
<td>Omnidirectional</td>
</tr>
<tr>
<td>Navigation Modes</td>
<td>Magnetic bar navigation</td>
</tr>
<tr>
<td>Positioning Accuracy</td>
<td>±5mm/Higher accuracy requires secondary positioning</td>
</tr>
<tr>
<td>Non-contact Sensor</td>
<td>SICK safety guard lidar</td>
</tr>
<tr>
<td>Contact Sensor</td>
<td>Conductive rubber</td>
</tr>
<tr>
<td>Sound and Light Warning Template</td>
<td>Sound and light cues</td>
</tr>
<tr>
<td>Travel Speed m/min</td>
<td>≤120m/min</td>
</tr>
<tr>
<td>Minimum Fork Height</td>
<td>50mm</td>
</tr>
<tr>
<td>Battery Type</td>
<td>Lithium battery/lead-acid battery</td>
</tr>
<tr>
<td>Battery Capacity</td>
<td>150/280AH</td>
</tr>
<tr>
<td>Charging Way</td>
<td>Automatic line charging/manual charging</td>
</tr>
</tbody>
</table>

**Wireless Network**
- System Interface: Reserved MES, scheduling system interface

**Industrial-grade WIFI**
- System Interface: Reserved MES, scheduling system interface

**Overall Length**
- 1740mm

**Overall Width**
- 1505mm

**Tuning Radius**
- Omnidirectional

**Navigation Modes**
- Magnetic bar navigation

**Positioning Accuracy**
- ±5mm (Higher accuracy requires secondary positioning)

**Non-contact Sensor**
- SICK safety guard lidar

**Contact Sensor**
- Conductive rubber

**Battery Type**
- Lithium battery/lead-acid battery

**Battery Capacity**
- 150/280AH

**Charging Way**
- Automatic line charging/manual charging
Intelligent sorting system determines which sorting entrance products should enter through: bar code scanning, color code scanning, keyboard input, weight detection, speech recognition, height detection and shape recognition. By introducing automation equipment, sorting operation achieves the advantages of unmanned processes; low error rate and high sorting efficiency.

**Slider Sorter**
- **Features:** Maximum sorting efficiency up to 14400 pieces/hour, high stability.
- **Applicable:** Adapts to different sizes, weights and shapes of various goods.

**Cross-belt Sorter**
- **Features:** The maximum sorting efficiency is up to 10000 pieces/hour, while maintaining low error rate.
- **Applicable:** Suitable for sorting all kinds of small goods, such as food, cosmetics, clothing, etc.

**Jack-up Wheel Sorter**
- **Features:** Low cost, sorting efficiency up to 6000 pieces/hour.
- **Applicable:** Suitable for cardboard boxes, plastic boxes and other flat bottom goods.

**AGV Sorting System**
- **Features:** Sorting efficiency increased by 100% with 100% correct rate achieved, and greatly reduced labor costs.
- **Applicable:** Suitable for sorting a variety of small goods, widely used in express delivery, medicine and e-commerce industries.
Core Product: Robot Coding and Stacking System

In the traditional stacking system, stacking manipulators could only deal with specific products. If stacking is needed for products of different packing specifications, it was often necessary to install multiple mechanical arms, which requires a lot of space and costs too much.

EOSLIFT offers a safe, efficient, and cost-effective hybrid stacking solution with a highly modular design. It combines the robots unpacking and stacking scheme with the box-type shuttle technology. Mainly including the mechanical arm, multi-functional fixture, material handling equipment, etc. It realizes the full automation process under the control of Lionman warehouse management system. Based on the visual system used to distinguish goods and categories, stacking order before sending into the warehouse management system, artificial intelligence algorithm was independent to perform complex calculation. According to the product parameters to determine the best way to load the pallet, ultimately achieve at the same time the products of different package sizes and orderly automatic on the pallet, picking speed for 2 or 3 times higher than that of the traditional way.

Robot palletizer can be integrated into any production line to provide intelligent, robotic and networked production site. It can realize the palletizing logistics of various operations in beer, beverage and food industries. It is widely used in products packaged in cartons, plastic boxes, bottles, bags, barrels, film package. It is equipped with three-in-one filling line and stacks all kinds of bottles, cans, boxes and bags.

The robot can be equipped with a variety of clamps and multiple mechanical arms.
Core Product: MiniLoad AS/RS

Robot material box type automatic warehouse (MiniLoad) for container storage unit. The robot manipulator in a container 360° rotating annular ring, sorted goods located at the mouth of roadway, takes out the goods or ships to tunnel mouth. The entire solution mainly solves problems of secondary caching and multi-category selection in e-commerce and other industries.

Application Scenario: Selection of production and distribution links. Storage of a large number of categories, each limited number of small parts, warehouse production efficiency requirements.

- Redundancy/Work Balance
- Order Accurately
- High Space Utilization
- Low Labor Cost
- Direct Access
- The Goods Safety
- Operation Efficiency
- Inventory Accuracy

Manufacturing parts production and transportation

Sorting in the e-commerce retail industry

The finished cache
Core Software: WMS/WCS Intelligent Warehouse Management System

System functions

ERP System

ERP System Interface

Elementary Functions of WMS

- Entry
- Entry Inspection
- Receiving Management
- Putaway Management
- Custody
- Secure Storage
- Allocation Management
- Picking
- Delivery Inspection
- Delivery
- Replenishment Management
- Job Supervision

Storage Management
- Counting
- Circulation Processing
- Movement
- DA Management
- NG Product Management

Automation Equipment Interface

Mechanical equipment in the automated warehouse, Automatic sorting system, etc.
As an important module of LionMan intelligent warehouse management software, 3D monitoring system is independently developed by Eoslift, which plays an important role in unmanned warehousing. Our 3D monitoring system can observe the three-dimensional storage environment, and real-time storage situation from the browser window. This reflects the real-time storage situation directly on screen. The main functions include 3D simulation display of real scene of stereo warehouse, real-time physical location, status data, fault monitoring of stereo warehouse equipment and remote camera monitoring.

- **Technology Leadership:**
  - Independent Patents, Industry Leadership

- **Space authenticity:** Three-dimensional space view

- **Business Value:**
  - Solving Problems and provide quick response

### Features

- Real-time monitoring of moving trajectory
- Fault alarm of equipment
- Automatic reconnection after disconnection
- Supporting remote camera

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**Core Software:** WMS/WCS Intelligent Warehouse Management System
Abundant Software Interfaces
Applicable to various upper monitoring systems for rapid docking and development (DBLink, webservice, etc.).

AI Big Data Algorithm
The system obtains route KPIs after deeply learning the access efficiency of customers. Analyze optimal route; decide the first-rank goods allocation to maximize the access efficiency through big data algorithm.

Excellent Software Framework
Quickly meet customers changing requirements; and multi-terminal support (PC, mobile phone, etc.)

3D Monitoring System
The advanced 3D monitoring & alarming system can dynamically submit all operation and alarm information of equipment.

Mature Communication Protocol
It is more convenient and flexible than the traditional OPC communication mode; the customized protocol is proven to be stable and reliable after tests from many projects. Results provided by our strong software and electrical teams at EOSLIFT.

Core Software: WMS/WCS Intelligent Warehouse Management System
Core Software: AGV Scheduling System

- **Visual Monitoring**
  The fully functional graphic monitoring interface can monitor and control the vehicle driving in real time.

- **Route Planning**
  Plan the route with intelligent algorithm and adjust it according to the driving conditions, in real time.

- **Intelligent KPI**
  Obtain the KPI by analyzing the use frequency of vehicle and routes, to serve as the data basis for vehicle number and path changes.

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  Obtain the KPI by analyzing the use frequency of vehicles and routes, to serve as the data basis for vehicle number and path changes.
Business Process

Consultative Selling

- Project Information
- Demand of Customers
- Project Due Diligence
- Industry Analysis
- Data Analysis

Solution Customization

- Process Planning
- Solution Design
  (machinery, electric and software)
- Solution Demonstration
- Solution Confirmation
- Contract Signing

After-sales Service

- After-sales Service
- Operation Training
  (theory, remote teaching, field teaching, and practice)
- After-sales training
- Remote Warning
- Active Safety

On-site Construction

- Set up a Project Team
- Production Outsourcing
- Assembly in Plant
- Test in Plant
- Field Installation
- Field Debugging
- Joint Debugging
- Trial and Operation

Integrated Solution Supplier of Intelligent Warehousing
Cooperation Advantages

Why Eoslift?

Cost Advantage
Products independent research, and development and production. Parts composed of international recognized brands. High quality and low prices.

Technical Advantages
The company has 160+ patents related to intelligent warehousing equipment. Most of the professional equipment R&D (research and development) team members have served on world famous system integrators. More than 150 successful project cases.

Service Advantages
We provide a 360 degree all-round multi-dimensional service solution consisting of remote service, on-site service and customer service hotline. Our professional team will help you solve problems in real-time.
After-sales Service

The professional engineers at EOSLIFT and after-sales service teams are ready to answer customers’ questions, to rapidly analyze faults, and to provide standard maintenance procedures, systematic training services and various service care.

- Maintain & manage solutions
- Remote real-time monitoring
- After-sales training
- Customer service and support

Remote Real-time Monitoring

Intelligent warehouse service system is a complete equipment maintenance platform independently developed by EOSLIFT. It significantly enhances the efficiency of after-sales services by finding out the cause of equipment failure against time since IoT may collect and store key specifications in a cloud server.

System advantage

- Monitor the equipment remotely to foresee and prevent potential shutdown problems
- Planar management by customers
### Intelligent Warehousing System of Zhongyi Chemical Fiber

<table>
<thead>
<tr>
<th>Category</th>
<th>Chemical Fiber</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Project Features</strong></td>
<td></td>
</tr>
<tr>
<td>• 24-meter high shelves;</td>
<td></td>
</tr>
<tr>
<td>• Easy storage for customers;</td>
<td></td>
</tr>
<tr>
<td>• Greatly improved efficiency by connection between customer’s equipment and access terminals, and automatic distribution to manual operation positions;</td>
<td></td>
</tr>
<tr>
<td><strong>Project Description</strong></td>
<td></td>
</tr>
<tr>
<td>• 36,865 goods locations</td>
<td></td>
</tr>
<tr>
<td>• 18 double-deep stackers</td>
<td></td>
</tr>
<tr>
<td>• 3 pallet-assembly machines</td>
<td></td>
</tr>
<tr>
<td>• 1 set of conveyor lines</td>
<td></td>
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<tr>
<td>• 2 RGV carts</td>
<td></td>
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<tr>
<td>• Software applies the WMS and the WCS systems</td>
<td></td>
</tr>
</tbody>
</table>
Intelligent Warehousing System of Xiangxin Pharmaceutical

**Category**
Pharmaceutical distribution

**Project Features**
- Divided into the stereoscopic warehouse and picking area
- The stereoscopic warehouse stores, collects and delivers goods
- The picking area picks goods by FCL and LCL
- The project is highly intelligent in handling materials supply and order delivery, reducing labor and meaningfully improving efficiency and accuracy

**Project Description**
- Stereoscopic warehouse: 9,840 goods locations, 5 single-deep stackers and supporting conveyor lines
- Picking area: 715 picking shelves, 64 AGV carts, and an automatic goods collection & sorting system
- Software applies the WMS and the WCS software systems
Intelligent Production & Warehousing System of Xiubo (Guangxi) Boars’ Semen

Category
Animal Husbandry

Project Features

• Intelligent and automatic filling, progressive cooling, storage, sorting, and packaging;
• Up to 9,000 bags can be produced every day, greatly facilitating the delivery efficiency
• Better automatic order selection, to save labor and improve work efficiency and accuracy
• Real-time goods tracking, seamless communication with the upstream system, and meet the requirements of work systems

Project Description

• Robot system: 10 ABB manipulators, 5 AGV carts and corollary equipment
• Delivery system: a box delivery system and an automatic sealing & delivery equipment for aluminum foil boxes
• Other support equipment: Miniload shelf, 2 labeling machines, an automatic turnover device, and 1,200 customized pallets
• Software applies the WMS and the WCS systems.
Vipshop Miniload Robot System

Category
E-commerce

Project Features
Consisting of an all-round rotatory robot, double annular shelves, and two access mini conveyor lines, the system hardware is 3m high and covers an area of 60 sq m. About 600 material boxes can be closely arranged here, effectively saving the work area and more than doubling the efficiency in a unit area (efficiency of daily order processing per square meter). The robot can work in a rotatory and stereo way to greatly accelerate the picking speed. It provides a flexible auto-cache and an intelligent picking method between “goods to people”, with the rate of order delivery shooting up.

Project Description
• An ABB manipulator;
• 5 Miniload shelf;
• A box delivery system;
• Software applies the WMS and the WCS systems
The Future of Warehousing

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