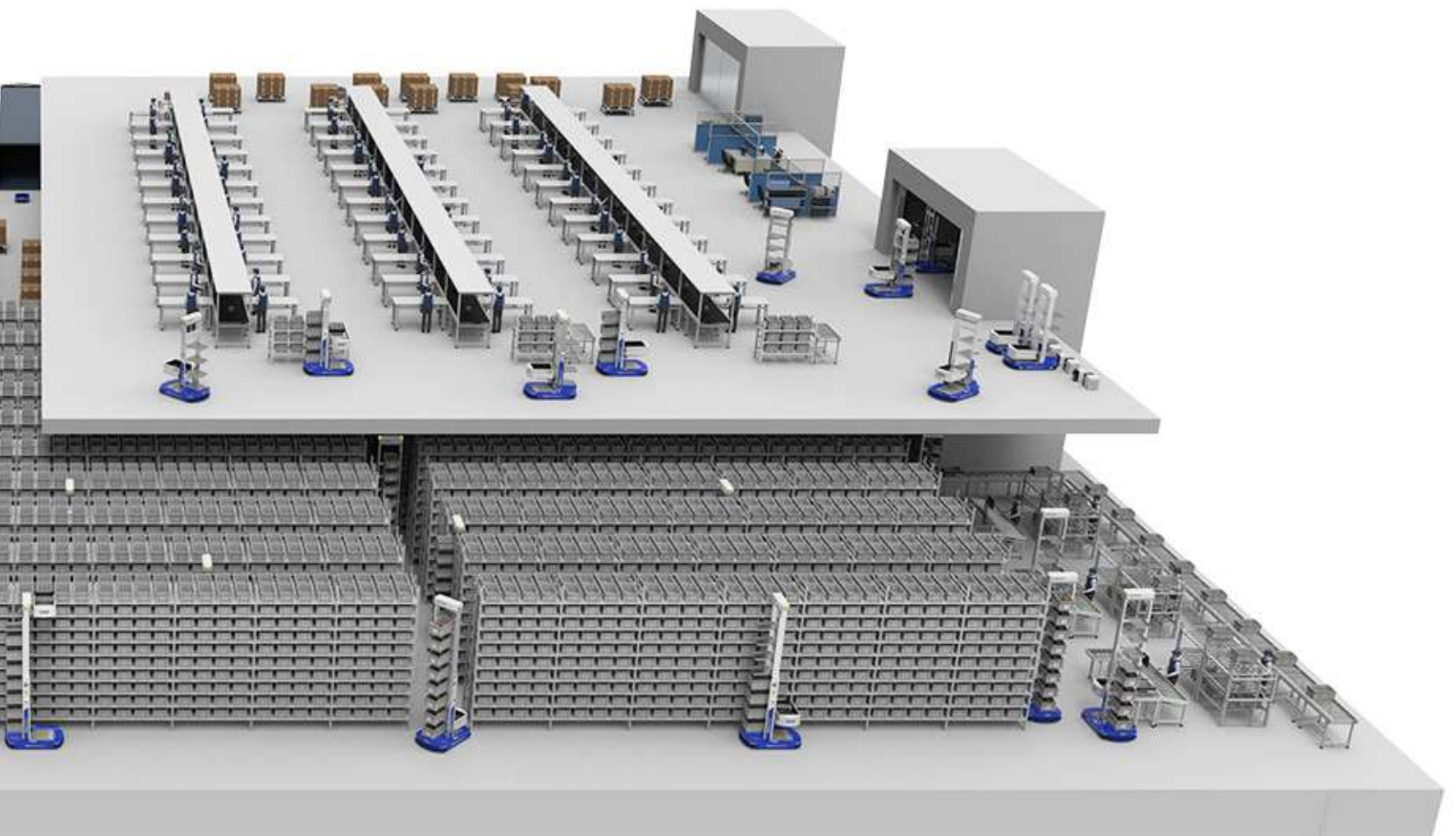




a Saifi Con Fab Systems Pvt. Ltd. company

Material Movement Technologies.



Warehouse Automation  
Solutions

## INTRODUCTION

Providing impeccable warehouse automation solutions to the e-commerce and logistic industry is what we do best and are proud of.

Carrying forward a legacy of 30 years of Saifi Con Fab System Pvt Ltd, Atmos systems aims to become one of the best warehouse automation system provider in the country and in order to achieve this aim, we have invested extensively on research and development to create exceptional technologies that could cater to all material handling and processing needs of a warehouse.

### CORE COMPETENCE OF ATMOS SYSTEMS



**Strong R&D Capabilities**



**Global Sales & Services Network**



**Customized Solution Planning**



**Completed Manufacturing System**



**Whole Process Quality Monitoring**



**Customer Service**



## E-commerce Retail Solutions

From retailers, manufacturers to distributors, E-commerce is creating an opportunity of growth for all type of businesses. But significant supply chain challenges like high volume SKUs, seasonal demand & supply, order processing timelines, shipping prices, deliveries, customer experience, etc. are preventing some businesses to grab this opportunity.

High volatility in short-term fluctuations and weekly demands can scarce human resources to the breaking point, resulting in poor customer service. E-commerce fulfilment must be able meet those requirements in order to achieve sustained growth.

Today's e-commerce customers have higher expectations in terms of next-day or same-day product delivery, easy return policy, offers or deals, etc. and will only increase in the future. Firms who are struggling to meet today's expectations are at high risk of losing customers and will be left behind by the competitors who are able to consistently meet these changing expectations.

Inventory management, order processing and shipping all get more complex if companies does not introduce new technologies in their existing systems. By keeping this in mind we have designed and



developed a list of Solutions for both small and large online retailers that can best fit into their operations thereby bringing extraordinary benefits in terms of

- **Inbound logistics Management**
- **Order Fulfilment speed**
- **Order Dispatch Accuracy**
- **Labour & Shipping Cost Reduction**
- **Data Protection & Inventory Management**
- **Increased Process transparency**

#### OUR E-COMMERCE RETAIL SOLUTION INCLUDES:

- **Autonomous Case-handling Robotic (ACR) System**
- **Robotic Palletizing System**
- **Dimension Weight Scanning (DWS) System**
- **Diversion & Sortation System**

## Courier & Logistics Company Solutions

Courier service providers are becoming game changers for many e-commerce companies by providing on-time product deliveries, expanding reach to more customers and reducing the material handling costs.

To look after the logistics of an e-commerce firm, courier companies are the only best option available in the current scenario.

However, still today most of the courier services are struggling to serve multiple companies during sudden rise in shipment volumes because of lack of advanced technology or management system for better order fulfilment process and transparency.

The following are some key challenges faced by courier and logistics companies in today's high level competition environment: -

- ❑ **Inability to manage high volume orders and Inventory**
- ❑ **Delayed deliveries**
- ❑ **Poor visibility on the courier delivery operations**
- ❑ **Dependency on human resources**
- ❑ **Damage free delivery of goods**
- ❑ **High delivery cost**



We understand the challenges prevalent in the space and has come with its end-to-end integrated Automation Solutions to help Companies handling low, medium to high shipment volumes.

OUR COURIER & LOGISTICS COMPANY SOLUTION INCLUDES: -

- Autonomous Case-handling Robotic (ACR) System
- Robotic Palletizing System
- Dimension Weight Scanning (DWS) System
- Diversion & Sortation System

## FMCG Industry Solutions

The retail industry for Fast Moving Consumer Goods (FMCGs) has transformed in front of our eyes over the past decade. We've seen the rise of e-commerce, the changing nature of grocery shopping and our expectations as consumers.

As the industry continues to grow and supermarket giants aiming to increase their market share, FMCG supply chain is facing a number of key challenges including operational cost reduction, meeting increasingly diverse customer requirements and ensuring availability and fulfilment of customer demand.

Consumers shopping habits and expectations are changing at a very fast rate. This brings more diversity in demand ranging from global online products to locally sourced products. The sales units are moving from bulk shipments to more customized variety of products, with smaller quantities of orders at a higher frequency.

In FMCG industry deliveries need to happen constantly, with the flexibility to adapt to seasonal fluctuations and shorter life spans. All this can only be achieved by streamlining operational processes from inbound of raw materials to final delivery of goods.

Over the past years big players in the FMCG space have begun to focus on optimizing storage space in warehouses, advancements in automation to remain competitive in a dynamic industry and services as required.





We understand technological investments within FMCG/Food and Grocery Companies (like automation and robotics) and have expertise in solving Supply Chain problems through our Intelligent, fast, efficient, & customizable automation solutions.

#### OUR FMCG INDUSTRY SOLUTION INCLUDES: -

- Autonomous Case-handling Robotic (ACR) System
- Robotic Palletizing System
- Dimension Weight Scanning (DWS) System
- Diversion & Sortation System

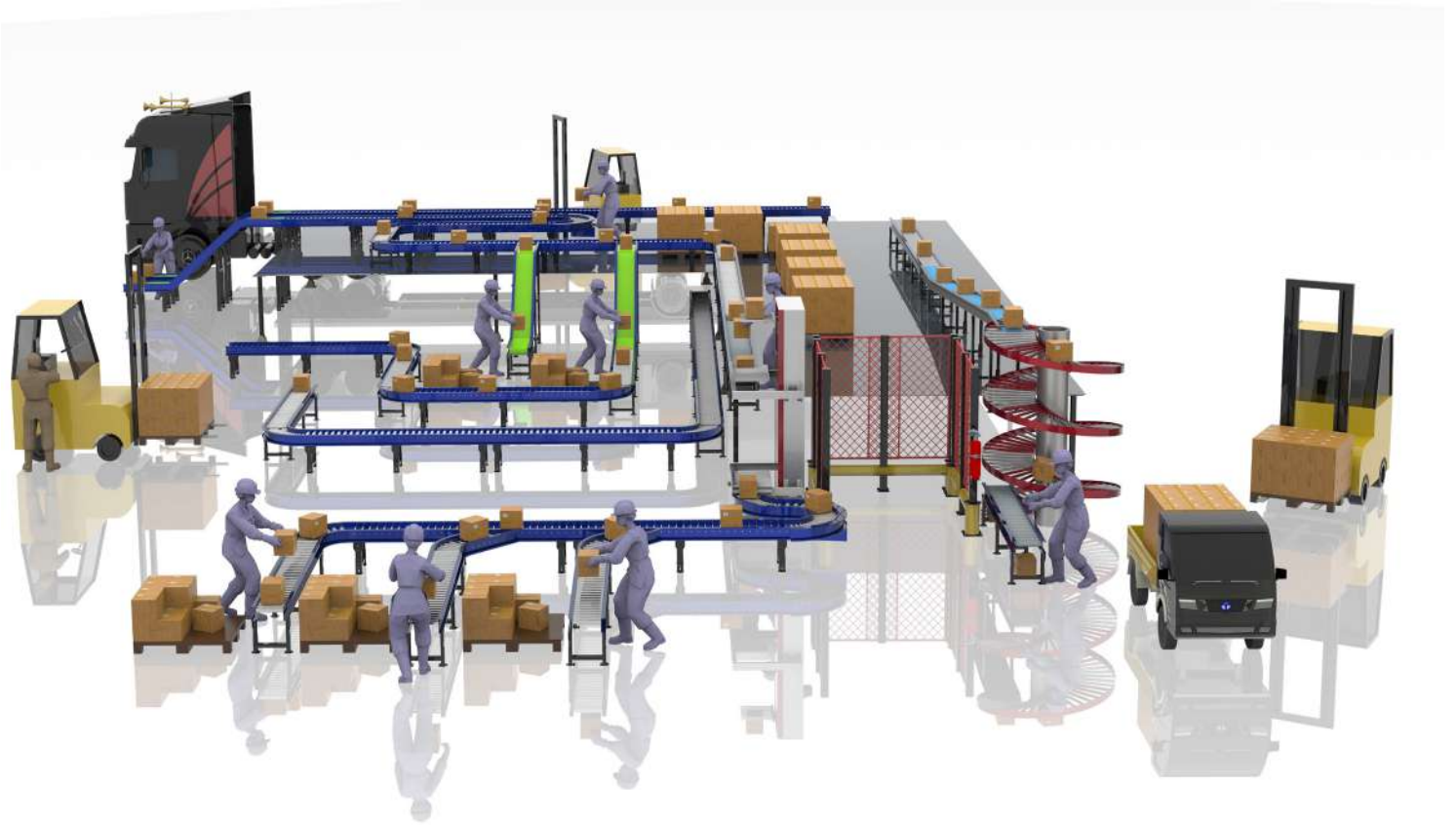
## Conveyor Automation Solutions

Conveyor systems are one of the most commonly used equipment in almost every industry worldwide. They allow an uninterrupted movement of materials by automating various processes of manufacturing and distribution.

Conveyors are best for handling high volumes of goods of different shapes, sizes and weight. The versatile design of these systems gives them a competitive advantage when it comes to increasing productivity and decreasing downtime.

Besides enhancing the performance and cost-effectiveness of your operational process, automated conveyor systems also have following advantages: –

- **Intelligent & fast product movement**
- **Reduces human error**
- **Prevents human Injuries during handling of goods**
- **Enables flexibility & accuracy for various operations**
- **Enhance quality control & throughput**



### OUR CONVEYOR SOLUTION INCLUDES: -

- ❑ Belt Conveyor
- ❑ Roller Conveyor
- ❑ Vertical Conveyor
- ❑ Telescopic Conveyor
- ❑ Truck Loading Conveyor
- ❑ Flexible Roller & Skate Wheel Conveyor

# Atmos Autonomous Case-handling Robotic (ACR) System

Traditional methods of material handling in warehouses are inefficient, complicated and doesn't contribute in the growth of any Industry.

To revolutionize this warehousing sector and to redefine these old methods, we have decided to bring an efficient and intelligent "goods to person" technology that will not only automate various warehouse operations but also significantly improves the warehouse's storage density and operational efficiency.

Our ACR System includes Autonomous Mobile Robots, Intelligent Warehouse Management System, Charging Station, Customized Workstations & Storage Units.



## BENEFITS AT A GLANCE: -

- Autonomous & intelligent functions: Autonomous picking, handling, navigation and charging
- Ultra-wide picking range: Covers a broader storage space range from 0.25m to 6.50m
- Fast & stable: Stable speed is 1.8m/s with/without load
- Multi-case handling: Each robot can store up to 8 cases at the same time
- Wireless communication: Supports 5GHz band and Wi-Fi to ensure a smooth operation
- Multiple safety protection: Obstacle detection, active obstacle avoidance, anti-collision alarm, and emergency stop
- Mixed picking: Compatible with cartons/totes, multi-size cases
- Flexible & customizable: Supports different customization requirements including height and color
- The ideal solution: Tailored specially to meet different application scenarios to deliver the best solution



7 Days for Deployment  
1 Month to Go Live



Increase Operational  
Efficiency by 3 -4 Times



Increase Storage  
Density by 80% - 130%



Realizes Customizable  
Requirements



Rapid  
ROI



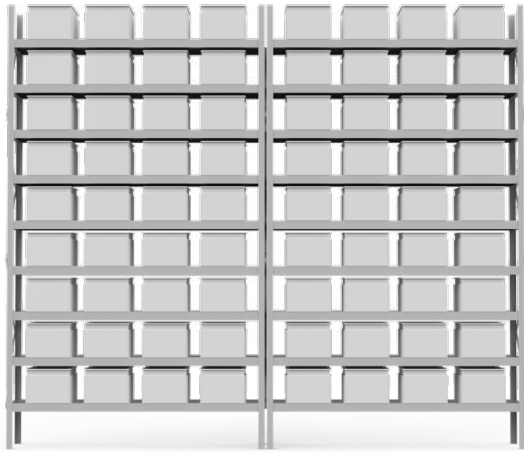
## IWMS - INTELLIGENT WAREHOUSE MANAGEMENT SYSTEM

It 's the intelligent brain of the Atmos ACR system. It can be connected to external management systems, perform data analysis and visual management to ensure the simultaneous dispatch of multiple robots and various equipment.



## CUSTOMIZED WORKSTATION

Atmos Systems provides customized workstation solutions, including on-robot picking workstation, on-conveyor picking workstation, on-shelving picking workstation adaptable to different business scenarios



### CUSTOMIZED STORAGE UNITS

Atmos Systems provides customized storage units, including cases and shelves of different sizes. They are easy to build, transform, and upgrade, bringing a more efficient and flexible warehouse automation management experience.



### INTELLIGENT CHARGING STATION

Specially designed to provide intelligent charging for Atmos robot and ensure 7x24h operation. It can automatically detect plug-in connection, and realize remote monitoring of charging, charging station and robot.



STATIC DWS SYSTEM



DYNAMIC DWS SYSTEM



## Atmos DWS System

Atmos's advanced dimensioning and weighing scanning systems are designed to increase the productivity and efficiency of your warehousing, distribution, and freight manifesting operations.

Our DWS System will provide accurate and reliable product dimensions and weight for all of the items in your warehouse or shipping application. It uses advanced technologies to capture dimensions and weight depending upon the type of product to be measured.

Studies have shown that information captured by Atmos dimensioning system is 15 - 20% more accurate than a manual measurement. Processing time of measuring a product and calculation of volumetric weight for freight reconciliation is reduced to seconds as opposed to minutes.

### BENEFITS AT A GLANCE: -

- **Product Dimensions + Weight + Barcode Scanning & Image capture all in one system**
- **Capable of measuring goods of different shapes & sizes**
- **Eliminates manual errors in measuring and database updating**
- **Increases quality control on order shipments**
- **Capable of scanning thousands of products per hour**
- **Comes in both Static and Dynamic design**



## Robotic Palletizing System

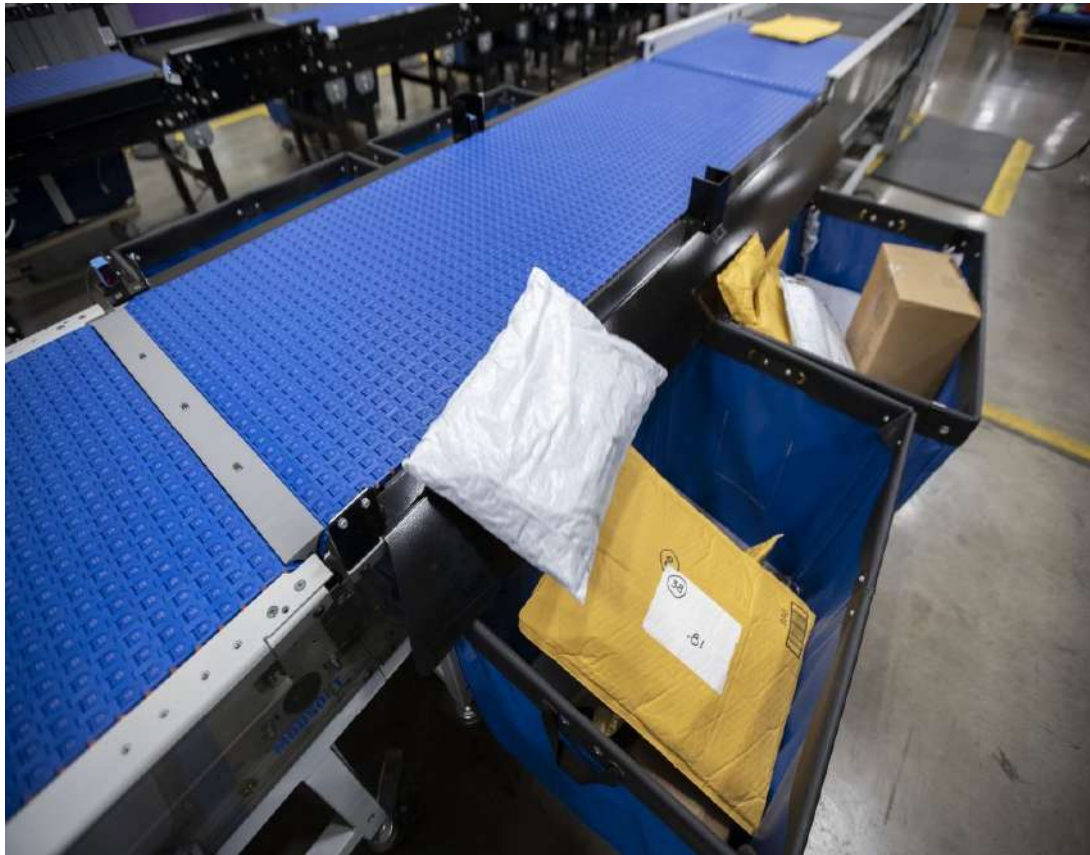
We are a complete end-of-line automation solution provider, offering state-of-the-art palletizing systems, which are capable to handle one or more units at a same time according to pallet configuration on multiple production lines.

By using our robotic palletizers, all types of cartons, boxes, trays and also shrink packs can be safely palletized.

Our solutions are tailored to the customers' needs and are built to the highest quality and safety standards to increase productivity, reduce operational cost and maintenance requirements and offer the best return on investment in the market.

### BENEFITS AT A GLANCE: -

- **Production rate increases due to fast and accurate robotic action**
- **Products & human safety improves through automation**
- **Eliminates manual stacking and unstacking process**
- **Can easily add new products or change pallet patterns**
- **Labor cost and operational cost decreases**



## Diversion and Sortation Systems

**D**iverting and Sorting packages in the warehouses, order fulfillment or distribution centers mostly relies on human workers, who manually identify and sort items for packaging as per order placement.

But for modern distribution centers, where high throughput is required, Atmos Systems has come up with reliable, fast & efficient sortation systems. Our system is ideal for sorting polybags, small packages and boxes. Our sortation systems fall into two broad categories: Case Sorters & Unit Sorters.

### BENEFITS AT A GLANCE: -

- Capable of handling different SKUs with large volume
- Change product direction to single or multiple locations
- Separate products based on defined attributes
- Capability to move products at right angles to the flow
- Improves productivity and reduce labor costs
- Enables accurate tracking of goods



## Smart Belt Conveyor

Our smart belt conveyors are specifically designed and manufactured in our own manufacturing facility. Our belt conveyors are reliable and helps enhancing our customers material handling capacity and efficiency.

### BENEFITS AT A GLANCE: -

- Incline/decline/horizontal
- Various belt types available
- Available in various widths
- Low maintenance
- Suitable for totes/cartons and irregular items
- Stand-by modes





## Smart Roller Conveyor

Our roller conveyors are capable to move goods from one place to another either manually, by gravity, or by power. These conveyors help in enhancing material handling capacity and efficiency of a manufacturing plant or warehouse. It also reduces human injuries and product damage during handling.

### BENEFITS AT A GLANCE: -

- **Cost Effective**
- **Modular allowing flexibility and future expansion**
- **A wide range of auxiliary interfaces available**
- **High quality and robust**
- **Low Maintenance**
- **Speeds up to 111m per minute**

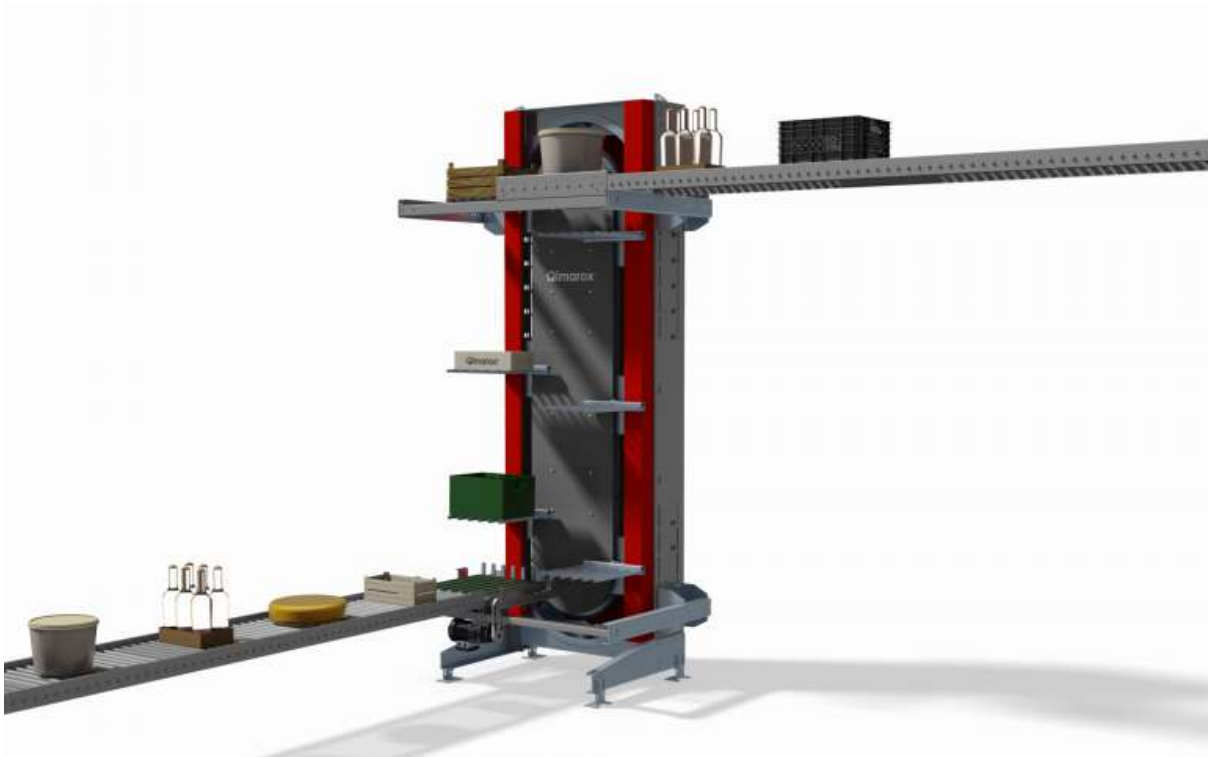


## Telescopic Conveyor

**A**tmos is a market leading manufacturer and exporter of telescopic conveyors / boom conveyors, vital for truck loading and unloading, both in the warehouse and any place where goods need to be moved rapidly and efficiently.

### BENEFITS AT A GLANCE: -

- Truck loading and unloading process time decreases
- Easily unload and load polybags, parcels, cartons etc.
- Prevents human injury and product damage during transportation
- Reduces labor cost and increases profit margins

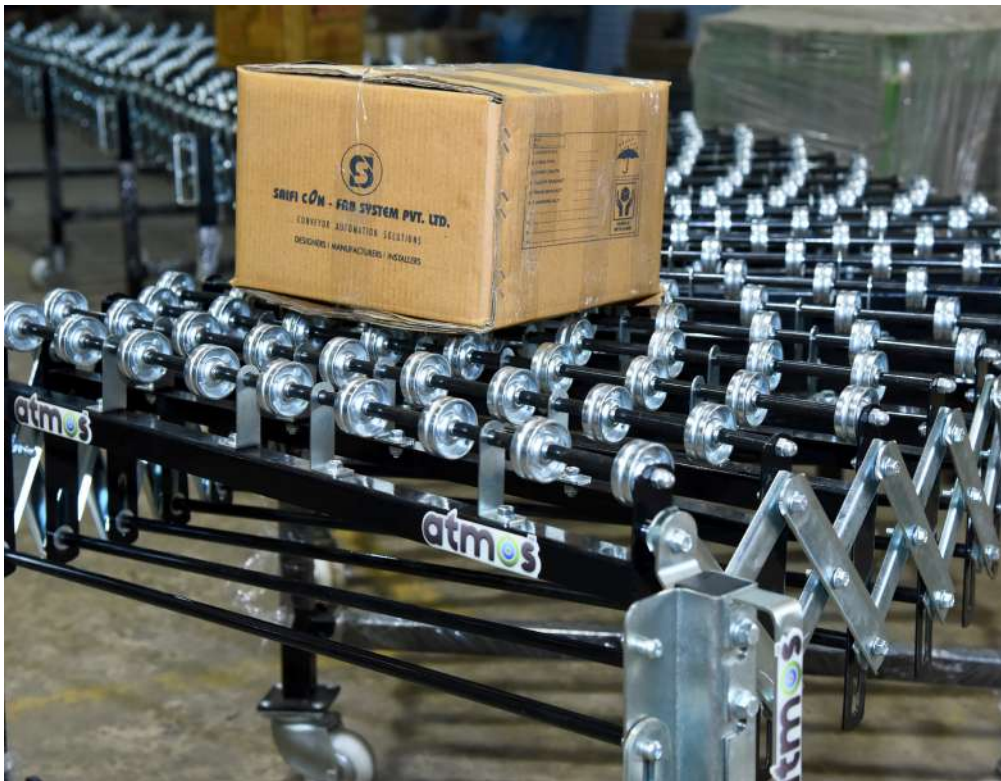


## Vertical Conveyor

Atmos offer a range of high-quality standard and bespoke vertical elevators/lowerators designed to handle most uniform shaped products and are available in powder coated mild steel or stainless steel depending upon application.

### BENEFITS AT A GLANCE: -

- Safe transit between multiple floors/ heights
- Small footprint saving valuable space
- Capacity up to 3000 products per hour
- Suitable for boxes, crates, totes, sacks, pallets, etc.



## Flexible Roller & Skate Wheel Conveyor

**F**lexible conveyors are a versatile and cost-effective solution when loading and unloading goods.

Whether you need a conveyor available every hour or just a few times a week, these units will help you to reduce vehicle turn around in packing environments and increase efficiency in production areas.

The boxes on these mobile expanding conveyors follow the line of the conveyor.

### BENEFITS AT A GLANCE: -

- **Best suited for loading and unloading of trucks**
- **Highly versatile & durable**
- **High performance & low maintenance cost**
- **Saves valuable floor area**
- **Ready to use and plug & play**





## Truck Loading Conveyor

**T**ruck Loading Conveyor System is a simple telescopic belt conveyor used for loading and unloading trucks or containers having large amount of goods or material carried for transportation. This portable truck loading conveyor can easily move large-sized boxes, cartons, bags, etc. in or out transporting vehicle and are widely used in warehouses, Industrial plants where material needs to be moved rapidly & efficiently.

### BENEFITS AT A GLANCE: -

- Material loading and unloading time decreases.
- Prevents human injuries and goods damage during transportation.
- Eliminates labor dependency and reduces labor cost.
- Rapid return on Investment after Installation.
- Can easily carry large boxes, cartons, polybags, etc.
- Can be manually or automatically controlled.

## GLOBAL PARTNERS

**Qimarox®**

**HAI ROBOTICS**

## OUR CLIENTS

