

# HIROLL TECHNOLOGY

*Keep your buissnes moving*



[WWW.HIROLLTECH.COM](http://WWW.HIROLLTECH.COM)

## About HIROLL

Established in 2012, HIROLL Technology stands as a premier Egyptian Shareholder Company, renowned for its cutting-edge conveyor systems and fully automated solutions. Our expertise lies in crafting both standard and custom systems for diverse industries including food, pharmaceuticals, and packaging. With esteemed clients such as Nestlé, PepsiCo, and Coca-Cola, we have successfully executed large-scale, pioneering projects that elevate operational standards. Our unwavering commitment to quality, dependability, and customer satisfaction has solidified our position as a global leader in automation, consistently surpassing industry benchmarks.

## HIROLL in Numbers

**2012**

Established  
Year

**+40**

Developed  
Products

**+500**

Delivered  
Projects

**+15**

Exhibitions  
Participations

# INDUSTRIES



## 01 OIL AND GAS

With extensive experience in the oil and gas industry, HIROLL provides tailored conveyor solutions and automated systems for renowned companies. We are committed to deliver high-performance, reliable equipment that enhances safety and efficiency in this critical industry.



## 02 FOOD & BEVERAGE

At HIROLL, we specialize in providing advanced conveyor systems for the food and beverage industry. Our solutions are tailored to meet strict sanitation standards, utilizing thermo drive belts for optimal cleanliness and reducing the risk of contamination.



## 03 AUTOMOTIVE

We understand the sector's core demands—high-production rate, strict quality control, and seamless automation. Our solutions improve productivity in assembly lines, component handling, and material flow, supporting the industry's drive for reliability, speed, and operational excellence, helping manufacturers meet the highest standards.



## 04 AGRICULTURE

At HIROLL, our expertise in the agriculture industry allows us to deliver robust solutions that align with the sector's distinctive demands. We craft high-performance equipment designed to elevate productivity in agricultural applications, ensuring your operations thrive with efficiency.



## 05 RECYCLING

HIROLL brings expertise to the recycling sector, transforming plastic waste into valuable products. Our advanced conveyor systems streamline the process from sorting to converting plastic bottles into fabric, optimizing operations and driving sustainability in recycling.



## 06 CHEMICAL

In the chemical industry, where safety is critical, HIROLL designs conveyor systems to meet the highest standards, with corrosion-resistant components and features to protect personnel and the environment. For material transport or processing, we deliver reliable, secure equipment tailored to this sector's demands.



## 07 MANUFACTURING

In manufacturing, HIROLL offers versatile conveyor solutions to handle delicate and heavy-duty products with precision and efficiency. Our systems streamline production, boost throughput, and reduce manual labor. We provide tailored solutions to optimize workflows and maintain quality and safety standards.



## 08 LOGISTICS

HIROLL delivers advanced conveyor solutions for logistics and supply chain, optimizing material handling and order fulfillment. Our systems streamline operations with automated sortation, product tracking, and integration, improving speed, accuracy, and warehouse efficiency for timely deliveries and smooth management.



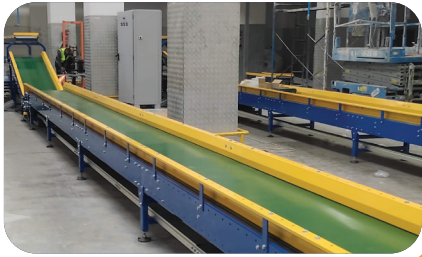
## 09 PHARMA & HEALTHCARE

In the pharmaceutical and cosmetics industries, HIROLL designs every detail of our conveyor systems with precision and safety. Our solutions include specialized equipment like leak testing lines for medical solution bottles to ensure product integrity. We provide equipment that meets regulatory standards and supports efficient, hygienic, and precise handling of sensitive products.



The fruit and vegetable processing industry plays a vital role in meeting the global demand for fresh, high-quality produce. At HIROLL, we recognize the critical need for efficiency and precision in this sector, which is why we offer cutting-edge processing and sizing solutions. Leveraging our extensive expertise, we craft systems that delicately handle, sort, grade, and package produce while preserving its freshness and top quality. Our established track record in this field showcases our ability to boost productivity, minimize waste, and uphold consistent product standards, empowering our clients to conquer the ever-growing demands of the food industry.

# PRODUCTS & SOLUTIONS



## 01 Standard Conveyor

HIROLL's Standard Conveyor sector is a key product offering, encompassing widely used conveyor systems in manufacturing, packaging, and warehousing sectors. It includes roller, belt, plastic modular, and slat conveyors, designed for efficient material flow and streamlining production processes.



## 02 Standalone Systems

HIROLL's Standalone Solutions sector offers versatile products that seamlessly integrate into existing production lines or warehouses. Our solutions, including mobile conveyors, conveyor gates, chain transfer units, roller diverters, turntables, and lifting mechanisms, provide flexible and efficient performance to optimize workflows and boost productivity across various industrial applications.



## 03 Machines

HIROLL's machines sector offers advanced automated systems for complex industrial challenges, equipped with smart PLC systems. These systems enhance productivity and efficiency, offering reliable, high-performance equipment like big bag filling machines, drum palletizing systems, checkweighers, and leak test machines.

# 01 STANDARD CONVEYOR PRODUCTS

## 1-Roller Conveyors

Roller conveyors represent a highly versatile and efficient material handling system designed to effortlessly move goods along a set of rollers. Whether powered by gravity or motors, they provide smooth, continuous transport. Gravity conveyors offer a simple, low-cost solution, while powered conveyors (belt or chain-driven) are ideal for heavier, more complex tasks. Widely utilized in assembly lines, shipping areas, and warehouses, roller conveyors offer an essential solution for moving goods with minimal manual handling. Their adaptability to specific operational needs makes them indispensable in various industries.

### Straight Roller Conveyors

The non-driven, straight roller conveyor transports material either manually or over a gradient via gravity. It is mostly used for assembly and picking lines as well as for dynamic storage systems.



### Roller Merge Conveyor

Roller merge is a conveyor with angled connecting edge, enabling line merging and flow separation using supplementary sorting elements.

### Roller Diverter

Roller Diverter diverts unit loads in 30° or 45° angles to a continuing conveyor line without interrupting the flow.



### Curved Roller Conveyor

The roller conveyor curves change the direction of transport of material. The alignment of the material is maintained within the side frames by tapered rollers. The rollers are driven from a horizontal shaft.

### Pallet Roller Conveyor

Pallet roller conveyor is considered one of the best solutions for transporting heavy units. Due to its tough, rugged design makes it handle a broad range of industrial-chemical pallets, mesh box pallets, drums, and special pallets weighing up to 1,500Kg.



## 2-Belt Conveyor

### Belt Conveyor

#### Light / Medium / Heavy

The Light, Medium and Heavy Duty Belt Conveyor are conveyors designed for specific material handling needs. The Light Belt Conveyor is suitable for horizontal transport of lightweight loads, while the Medium Belt Conveyor is versatile for assembly lines and packing. The Heavy Duty Belt Conveyor is ideal for transporting heavier materials.

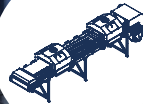
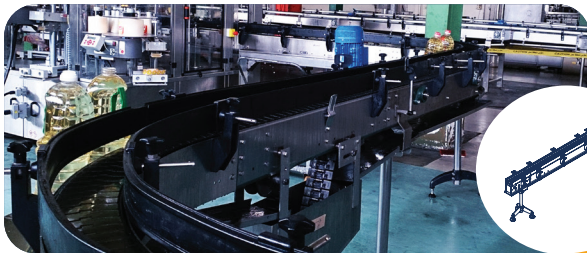


### Trough Conveyor

Trough belt conveyors are efficient bulk material moving tools used in cement, coal packing, food industry, sand, gravel, and package handling, available in inclined and straight forms.

### Belt Bucket Elevator

Bucket elevators are efficient vertical elevators for bulk materials like sand, gravel, woodchips, and other free-flowing materials. HiRoll designs and manufactures various models based on material characteristics and process requirements, making them ideal for handling fragile materials.

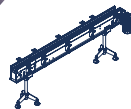


### 3-Slat Conveyor

A Slat Conveyor can be used in the Food, Pharmaceutical Processing, and Packaging Industries. It is equally applicable in the transport of heavy duty products. Depending on the application needs, slat conveyors could be Straight or Curved.

## 4-Plastic Modular Belt Conveyor

This type of conveyor is very adaptable and is often used in food and pharmaceutical applications due to its hygiene features. It has no tracking problems and can be designed in a U shape to easily achieve bends. Such features have made this conveyor a very popular and flexible solution. Modular belt conveyors could be straight, inclined, or declined one.



### 5-ThermoDrive® Conveyor

HIROLL Technology collaborates with Intralox's Center of Excellence for Food Safety and Hygiene to offer ThermoDrive® technology, designed for direct food contact. This lightweight conveyor system optimizes performance, reducing sanitation time and costs, and is used in various food-processing applications.

## 6-Overhead Conveyor

HIROLL's Overhead Conveyor system offers an innovative solution for handling loads up to 2,000 kg. Its modular design allows for easy installation, expansion, and relocation, accommodating both manual and powered operations. By maximizing floor space and optimizing product flow and storage, it is ideal for industries such as batch painting and tool support, effectively reducing damage and worker injury by suspending loads.



# 02 STANDALONE SOLUTION PRODUCTS

## Conveyor Gate

The conveyor gate allows access to areas to the rear of conveyor installations. It provides a passageway for lift trucks, and other equipment. Also, it presents a quick escape route in case of danger.



## Mobile Conveyor

Our mobile conveyors have applications in loading boxes and gunny bags into trucks and other vehicles. These conveyors offer excellent solutions for stacking products in go-downs and transport trucks.

## TurnTable

The turntable efficiently changes the direction of pallets with a 0° to 360° turning range. It uses a precision roller chain and a robust ball steering ring for smooth rotation. Driven by a motor connected to a sprocket, it guarantees consistent performance, ideal for material handling in various industrial applications.



## Lifting Mechanism

The lifting station consists of a column construction and a carriage on which a conveyor is mounted. A cylinder pneumatically raises and lowers the lift truck. It's used in a multistage packaging.

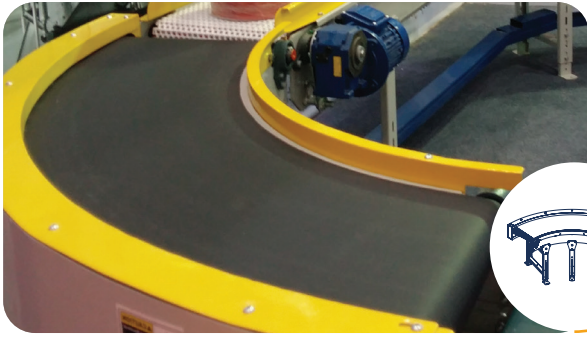
## Check Weigher System

A check-weigher is a crucial quality control system used in various sectors to ensure product weight and packaging compliance, preventing product removal if outside tolerances are exceeded.



## Pallet Chain Transfer Unit

The Pallet Chain Diverter efficiently redirects pallets at a 90° angle from the main conveyor line. Mounted between rollers, it is electrically raised for smooth, precise pallet transfers, enhancing material flow and operational efficiency in automated systems.



## Curved Belt Conveyor

HiRoll Belt Curve is designed to provide trouble-free performance for years in various applications. The design accommodates many variations in width, arc, and weight conveyance. The Belt Curve features a robust belt guide concept and a light, quickly replaced belt without motor removal.

## Scissor Lift Table

Scissor lift tables are versatile solutions designed to enhance material handling in various industries, improving workplace ergonomics and increasing safety and productivity. With capacities ranging from 500 kg to 120,000 kg, HI-ROLL's scissor lifts handle a wide range of tasks, from simple loading and unloading to heavy-duty component handling and positioning.



## Size Sorting Line

HIROLL offers precision-engineered size sorting lines tailored to meet specific customer needs. Our sizer efficiently sorts fruits into three sizes with adjustable stations, ensuring optimal efficiency. This versatile solution is essential for accurate and high-throughput fruit processing.

## Magnet Conveyor

Magnetic belt conveyors efficiently elevate steel cans vertically by using strong magnets to hold them securely, preventing slips and ensuring smooth material flow. This setup is ideal for industries like food and beverage, optimizing space and boosting production throughput.



## Assembly Line

At HIROLL, we manufacture Assembly Lines for large home appliances like refrigerators, deep freezers, and washing machines. These robust, chain-driven systems provide a stable, secure surface for efficient and safe transport of products through assembly lines.

# 03 MACHINES PRODUCTS

## Big Bag Filling Machine

HIROLL's semi-automatic Big Bag Filling Machine efficiently and precisely packages bulk materials, handling flexible intermediate bulk containers (FIBCs) and octabins. With a capacity range of 500 kg to 1500 kg, the heavy-duty system offers a simple yet economical solution for filling dry granular, flaked, or powdered materials. Its ergonomic design enhances productivity, making it ideal for industries with high throughput requirements.

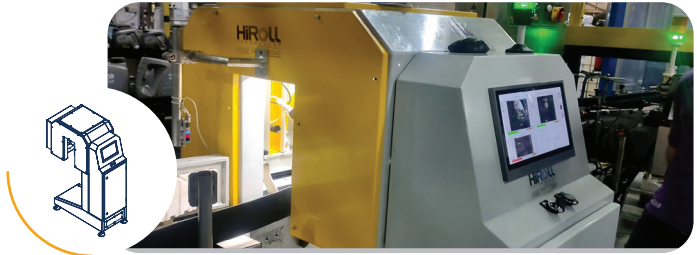


## Drum Palletizing System

The HIROLL Drum Palletizing System is an automated system for handling drums up to 250 kg, reducing manual labor and improving productivity in challenging environments.

## LineEye System

LineEye is an advanced inspection system that uses AI and computer vision to detect defects in products, such as container damage, bad labels, missing caps, and barcode issues. Its user-friendly interface requires no extensive training, allowing for quick deployment. With multi-camera capability and robust hardware, LineEye offers high accuracy, flexibility, and durability, making it a powerful tool for improving quality control and productivity in manufacturing.



## Leak Test Machine

The leak test machine is crucial in the pharmaceutical industry for detecting leaks in IV fluid plastic bottles, utilizing a durable, efficient system with a pneumatic piston.

## Automatic Sack Emptying Machine

Experience the efficiency of our Automatic Sack Emptying Machine, capable of handling bags up to 50 kg. This innovative machine automates the lifting, opening, and emptying process, featuring a rotating blade and shaker system for thorough product extraction, ensuring minimal waste. With a high capacity of processing up to 30 tons per hour, this customizable machine enhances productivity and safety across various industries.



## Pallet Dispenser

A Pallet Dispenser automates material handling systems, simplifying stacking and de-stacking of pallets. It handles various types, including 4-way pallets, and integrates with conveyors for efficient operations. Equipped with PLC control, it enhances productivity, reduces labor costs, and improves workplace safety.

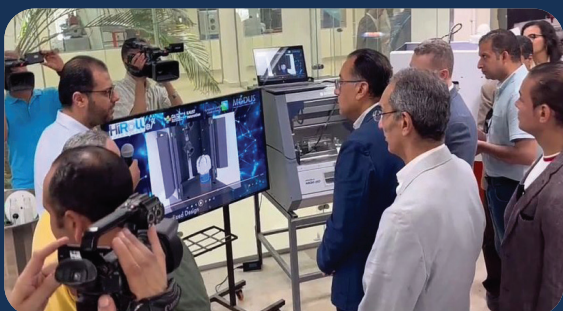
# OUR CLIENTS



# OUR SUCCESS IN ACTION

## HIROLL & Sumitomo Electric Wiring Systems

In June 2020, Prime Minister Mostafa Madbouli visited the Sumitomo Electric Wiring Systems (SEWS) plant in 6th of October City, where HIROLL Technology's overhead monorail conveyors were showcased. Designed, manufactured, and commissioned by HIROLL, these conveyors play a key role in optimizing SEWS' production efficiency. We are proud to provide SEWS with reliable, high-quality conveyor solutions that improve material handling, reduce manual intervention, and enhance operational flow. This collaboration exemplifies our commitment to delivering state-of-the-art technology to leading manufacturers.



## HIROLL's R&D Collaboration with KAUST University

HIROLL proudly presented its latest innovation in the oil and gas sector to Egypt's Prime Minister and Minister of Communications. This breakthrough project, developed in collaboration with KAUST University, highlights our commitment to research and development (R&D) and how our innovations are transformed into real-world solutions for the industry. At HIROLL, we're driven by the belief that R&D is the key to addressing real-world challenges. Our partnership with KAUST demonstrates how innovative research can lead to cutting-edge technologies that directly benefit critical industries like oil and gas. We continue to focus on pushing the boundaries of what's possible, creating solutions that elevate industry standards and performance.





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