



automation

RP AUTOMATION

WE PROVIDE SOLUTIONS, NOT JUST PRODUCTS
DESIGN . MANUFACTURE . INTEGRATE

Who We Are:

RP Automation is a trusted Material Handling & Industrial Automation solution provider, specializing in the design, manufacture and integration of conveyor systems and automation solutions tailored to customer-specific requirements.

With strong engineering expertise and a solution-driven approach, deliver reliable, efficient and scalable systems, that enhance productivity and streamline material flow across industries.



COMPLETE CONVEYOR & AUTOMATION SOLUTION

We provide end-to-end solutions, covering every stage of the project lifecycle:

- ✓ System Concept & Layout Design
- ✓ Conveyor Design & Manufacturing
- ✓ Automation, Controls & Electrical Integration
- ✓ Installation, Commissioning & Support
- ✓ Customization as per Process & Space Constraints

Manufacturing | Warehousing | Logistics | Food & Beverage | Pharmaceuticals | Automotive | Heavy Engineering

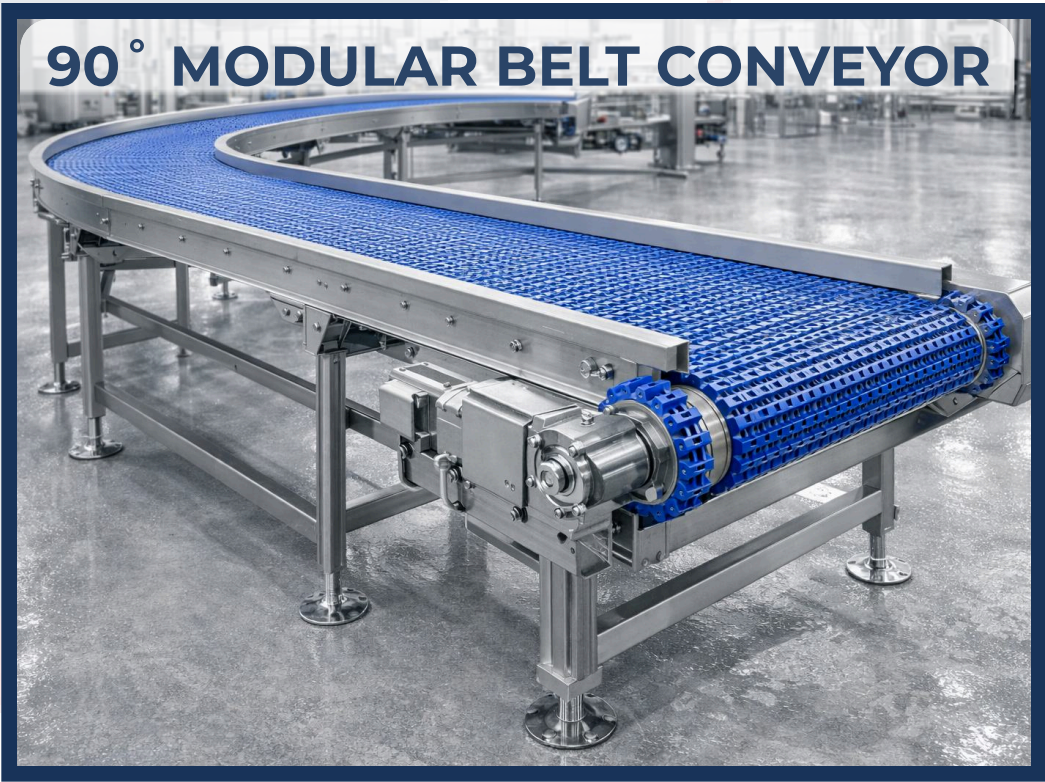
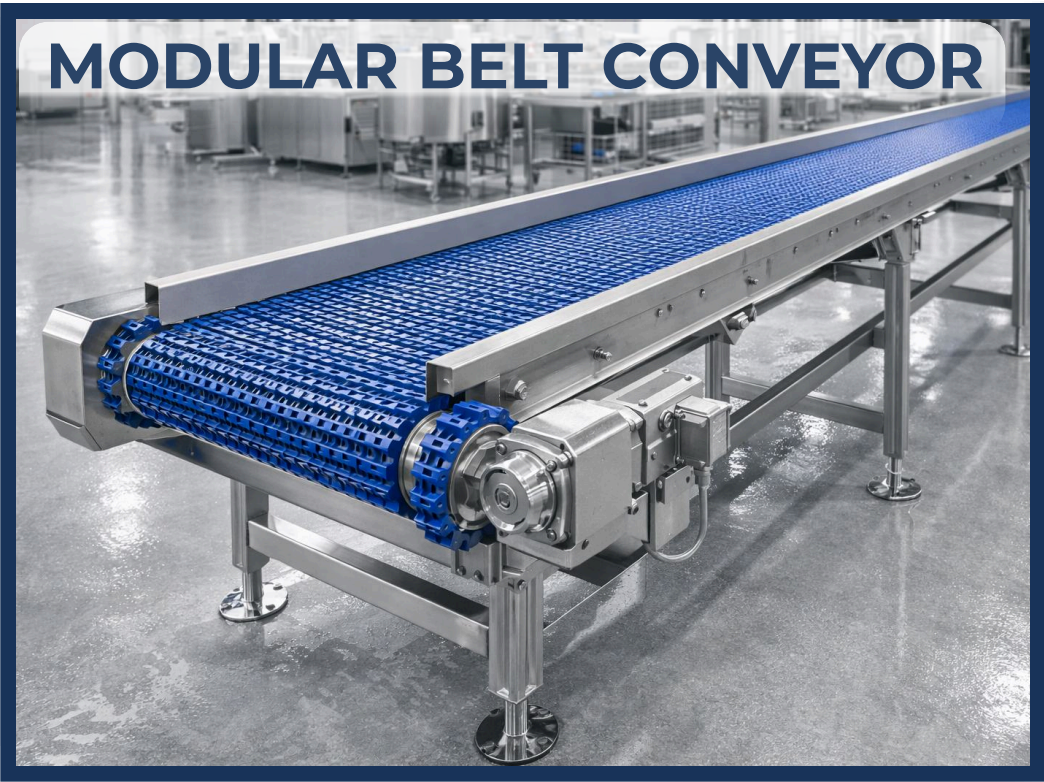
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BELT CONVEYOR SYSTEM

We manufacture a comprehensive range of **belt conveyor systems** for efficient handling of bulk materials and unit loads across industries such as **food processing, FMCG, logistics, agriculture, and manufacturing**. Our conveyors are **custom-designed** based on capacity, material characteristics, layout, and operating conditions. Each system is engineered with detailed calculations for **belt tension, power, speed, and structural strength**, ensuring reliable and low-maintenance operation. Designs comply with **international and Indian standards** and incorporate safety, energy efficiency, and ease of maintenance, making them suitable for **horizontal, inclined, and specialized conveying applications**.

TYPES OF BELT CONVEYORS OFFERED



* Key Features & Options

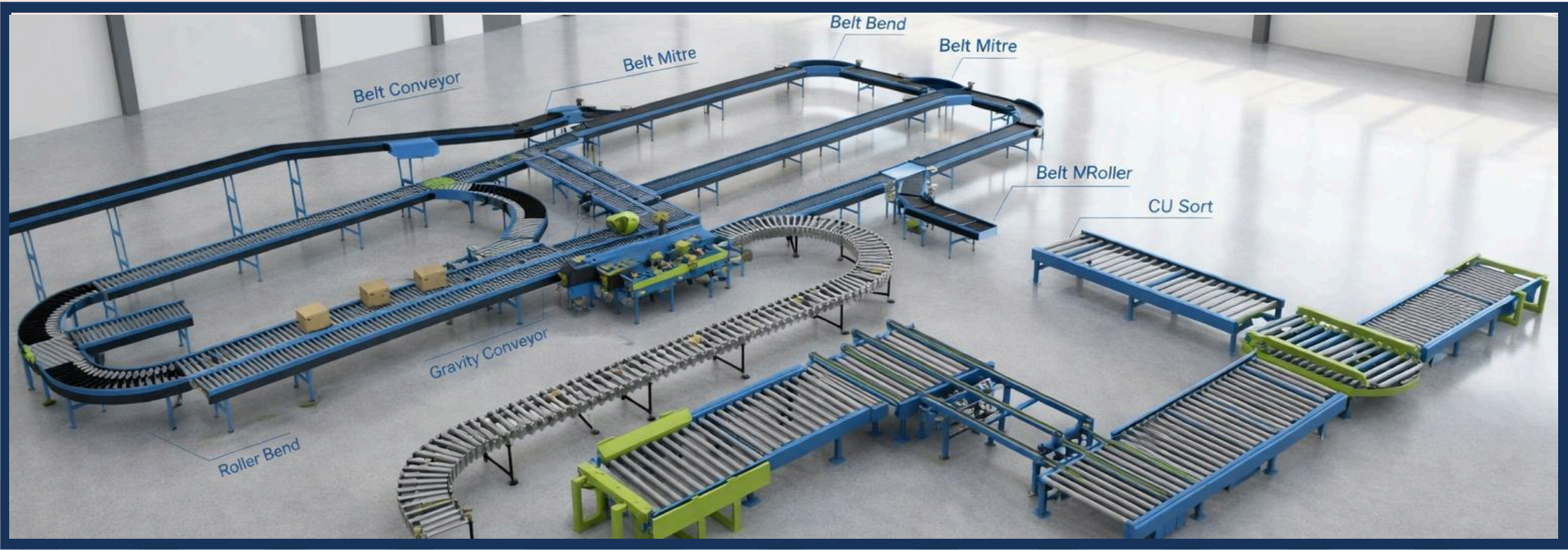
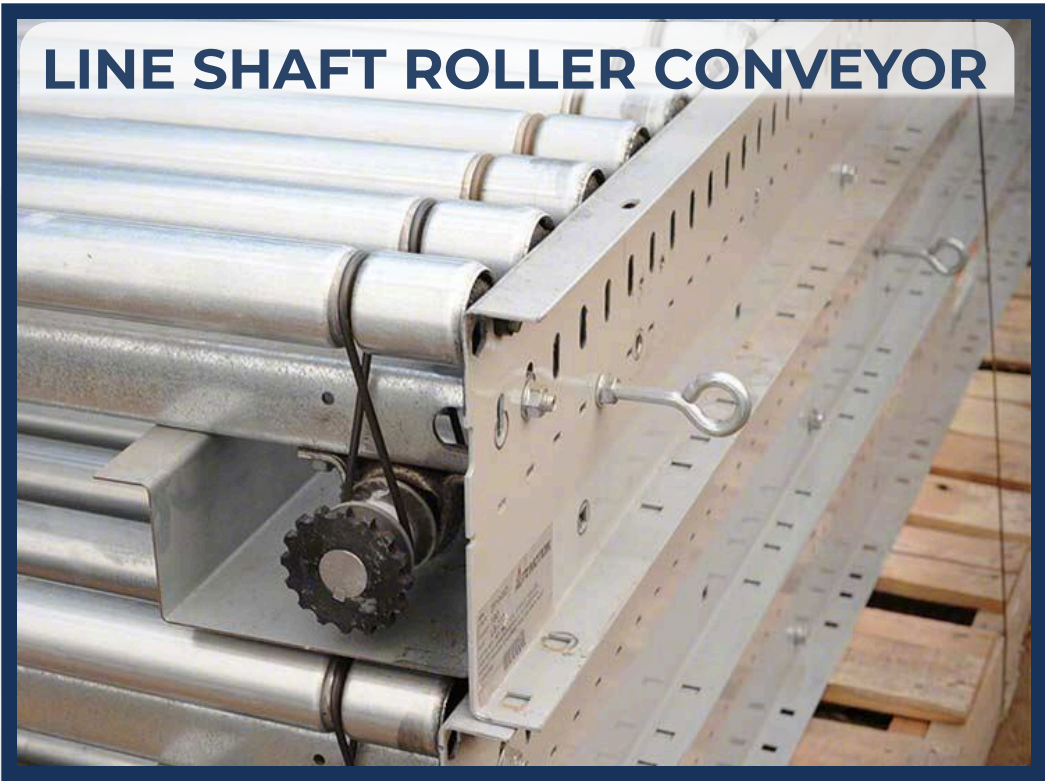
- Belt Types: Rubber, PVC, PU, Modular Plastic, Cleated, Chevron, Sidewall, Rough Top
- Design Standards: ISO, DIN, CEMA, IS, ANSI
- Structure Material: MS / SS 304 / SS 316 (Powder Coated)
- Drive Options: Geared Motor, VFD Controlled Drive
- Safety: Guards, Emergency Pull Cord, E-Stops
- Applications: Flat, Trough, Inclined & Curved Conveying

Conveyor Type	Belt Width Range (mm)	Conveyor Length Range	Capacity Range	Speed Range	Inclination	Belt Material Options
Flat Belt Conveyor	300 – 2000	1 to 100 m	Up to 250 kg/m	5 – 60 m/min	0° – 45°	PVC, PU, Rough Top, or Anti-static
Troughed Belt Conveyor	400 – 2000	1 to 100 m	Up to 500 TPH	5 – 90 m/min	0° – 20°	Rubber (EP / Steel Cord)
Cleated Belt Conveyor	200 – 2000	1 to 100 m	Up to 200 kg/m	5 – 40 m/min	0° – 45°	Rubber, PVC, PU
Timing Belt Conveyor	50 – 600	1 to 20 m	Up to 150 kg/m	5 – 60 m/min	0° – 20°	PVC, PU, Antistatic, Rubber timing
Modular Belt Conveyor	100 – 1500	1 to 100 m	Up to 150 kg/m	5 – 60 m/min	0° – 30°	Plastic (PP, PE, Acetal)/ PP, POM, Nylon
90° Modular Belt Conveyor	100 – 1500	1 to 100 m	Up to 150 kg/m	5 – 40 m/min	-	Plastic (PP, PE, Acetal)/ PP, POM, Nylon
Sidewall Belt Conveyor	400 – 2000	1 to 100 m	Up to 600 TPH	5 – 40 m/min	0° – 45°	PVC, PU
Chevron Belt Conveyor	400 – 2000	1 to 100 m	Up to 300 TPH	5 – 40 m/min	0° – 45°	Rubber (Chevron patterned)
Rough Top Belt Conveyor	300 – 2000	1 to 100 m	Up to 100 kg/m	5 – 40 m/min	0° – 45°	NBR Rubber, PVC (Rough Top)

ROLLER CONVEYOR SYSTEM

We manufacture a wide range of **roller conveyor systems** designed for smooth and efficient handling of cartons, boxes, totes, and pallets in **warehousing, logistics, assembly, and distribution centers**. Our roller conveyors are available in **gravity and powered configurations**, engineered to suit layout constraints, load capacity, and process flow requirements. Each system is designed with proper calculations for **roller pitch, load distribution, drive power, and structural strength**, ensuring reliable performance and long service life. Designs comply with **international safety and design standards**, offering flexible, low-maintenance, and scalable material handling solutions.

TYPES OF ROLLER CONVEYORS OFFERED



* Key Features & Options

- Types: Gravity, Powered, Accumulation, Line Shaft, CDRC, Flexible, 90° Curve
- Rollers: Steel, SS, PVC, PU-Coated
- Design Standards: ANSI, DIN, ISO, CEMA
- Structure Material: MS / SS 304 / SS 316 (Powder Coated)
- Drive Options: Motorized Roller, Line Shaft, Chain Drive, VFD
- Safety: Guards, E-Stops, Accumulation Control

Conveyor Type	Roller Dia. Range (mm)	Conveyor Width Range (mm)	Load Capacity	Speed Range	Inclination	Material Options
Gravity Roller Conveyor	38 – 90	300 – 2000	Up to 1500 kg/pallet	Manual / Gravity	2° – 5° slope	MS, SS, PVC-Coated rollers
Powered Roller Conveyor	50 – 114	300 – 1500	Up to 1500 kg/pallet	0-30 m/ min	0° – 5°	MS, SS rollers
Line Shaft Roller Conveyor	38 – 60	300 – 900	Up to 100 kg/mtr	0-20 m/ min	0° – 5°	Zinc plated MS rollers
Chain Driven Roller Conveyor (CDRC)	60 – 165	600 – 1800	Up to 3000 kg/pallet	0-20 m/ min	0° – 5°	MS / Hardened steel rollers
Accumulation Roller Conveyor	50 – 108	400 – 1200	Up to 1500 kg/mtr	0-20 m/ min	0°	MS, SS rollers
Skate Wheel Conveyor	38 – 50	300 – 1000	Up to 50 kg/m	Gravity / Manual	2° – 6° slope	Galvanized steel, nylon
Flexible / Expandable Roller Conveyor	38 – 50	300 – 600	Up to 150 kg/m	Gravity / Manual	2° – 5° slope	MS rollers with scissor frame

WHY CHOOSE RP AUTOMATION ?

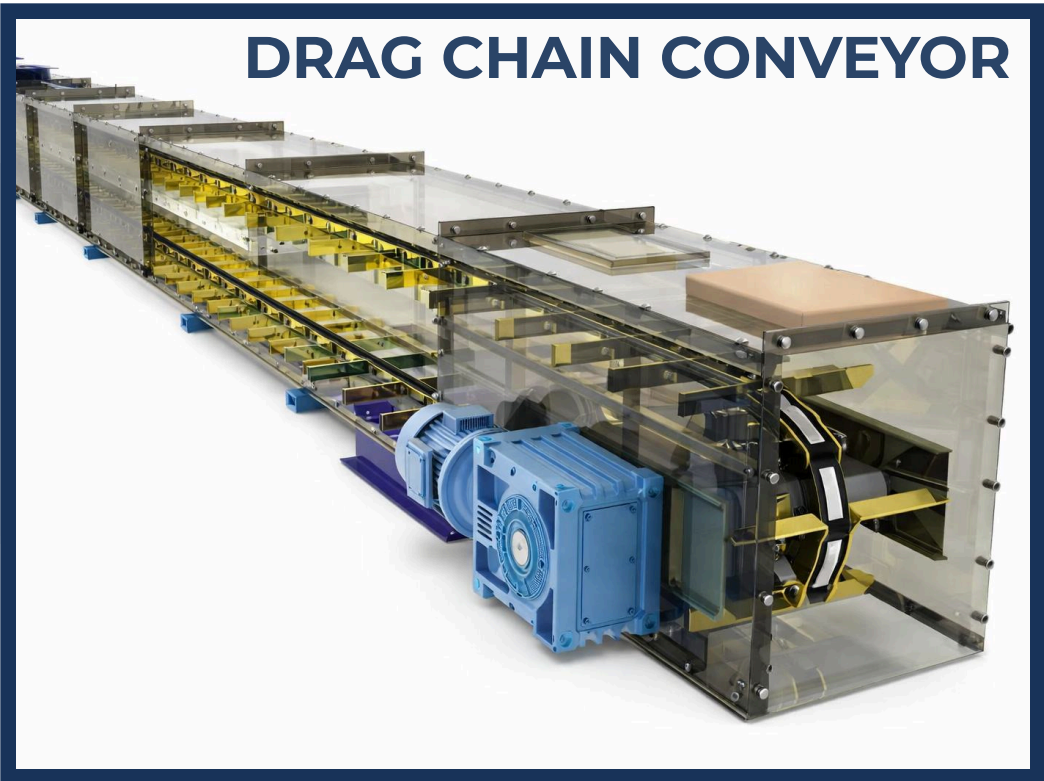
 FLEXIBLE LAYOUTS |
  SMOOTH FLOW |
  LOW MAINTENANCE |
  ENERGY EFFICIENT |
  SAFETY COMPLIANT



CHAIN CONVEYOR SYSTEM

We manufacture robust **chain conveyor systems** designed for handling **heavy loads, pallets, and demanding industrial applications** such as **automotive, assembly lines, foundries, and heavy manufacturing**. Our chain conveyors are engineered for continuous and intermittent duty, with designs optimized for **load capacity, chain pull, speed, and wear life**. Systems are custom-designed to suit straight, inclined, and curved layouts, ensuring smooth and reliable operation. All chain conveyor systems are developed in compliance with **international design and safety standards**, offering high durability, minimal maintenance, and dependable performance in harsh operating environments.

TYPES OF CHAIN CONVEYORS OFFERED



*** Key Features & Options**

- Types: Slat, Drag, Pallet, Apron, Multi-Strand, 90° Chain Conveyor
 - Chains: Engineering Steel / Roller Chain / Attachments
 - Design Standards: ISO, DIN, ANSI, CEMA
- Structure Material: Heavy-Duty MS / SS (Powder Coated)
 - Drive Options: Geared Motor, VFD Controlled Drive
 - Safety: Guards, Backstop, E-Stops

Conveyor Type	Chain Type/Pitch	Conveyor Width Range (mm)	Load Capacity	Speed Range	Inclination	Material Options
Slat Chain Conveyor	Roller / Bush chain	300 – 2000	Up to 500 kg/m	3 – 30 m/min	0° – 10°	MS / SS slats
Drag Chain Conveyor	Forged / En-masse chain	300 – 1200	Up to 2000 kg/hr	3 – 30 m/min	0° – 30°	MS / Hardox / SS
Pallet Chain Conveyor	Duplex / Triplex chain	600 – 2500	Up to 2000 kg/pallet	5 – 20 m/min	–	MS / SS structure
Apron Conveyor	Heavy-duty bushed apron chain	600 – 2500	Up to 5000 kg/m	0.1 – 5 m/min	Up to 30°	MS / Alloy steel pans
Multi-Strand Chain Conveyor	Duplex / Triplex / Multi-strand roller chain	600 – 3000	Up to 3000 kg/m	5 – 20 m/min	-	MS / Hardened steel

- SS Slat Chain Conveyor:** Hygienic, low-friction conveying
- Drag Chain Conveyor:** Enclosed bulk material transport
- Pallet Chain Conveyor:** Heavy palletized load transfer
- Apron Conveyor:** High-impact material handling
- Multi-Strand Chain Conveyor:** Wide load stabilization

AUTOMOTIVE & ASSEMBLY LINES
PALLET HANDLING
FOUNDRIES
HEAVY MANUFACTURING
INDUSTRIAL PROCESSING

WHY CHOOSE RP AUTOMATION ?

- HEAVY LOAD HANDLING**
- ROBUST CHAIN DESIGN**
- HARSH DUTY READY**
- SAFETY COMPLIANT**

SPECIAL PURPOSE CONVEYOR SYSTEM

We design and manufacture **special purpose conveyor** systems to meet unique material handling requirements where standard conveyors are not suitable. These systems are engineered for applications such as **truck loading and unloading, vertical and spiral conveying, space-constrained layouts, and process-specific transfers**. Each conveyor is custom-designed based on **layout, capacity, duty cycle, and operational safety**, ensuring reliable and efficient performance. Our designs follow **international engineering and safety standards** and are developed to integrate seamlessly with upstream and downstream equipment, offering flexibility, automation readiness, and long-term operational reliability.

TYPES OF SPECIAL PURPOSE CONVEYORS OFFERED



* Key Features & Options

- Types: Telescopic, Truck Loading/Unloading, Z-Type, L-Type, Turntable, Spiral, VRC
- Design Standards: ISO, ANSI, DIN, CEMA, IS
- Structure Material: MS / SS 304 / SS 316 (Powder Coated)
- Drive & Control: Geared Motor, VFD, PLC Integration
- Safety: Interlocks, Guards, E-Stops, Limit Switches

Conveyor Type	Capacity/ Load Range	Conveyor Length /Size Range	Conveyor Width Range (mm)	Speed Range	Inclination /Travel	Material Options
Truck Loading Conveyor	Up to 150 kg/m	Length: 6 – 12 m	Up to 900 mm	10 - 30 m/min	Adjustable 0°–30°	PVC/PU, Rubber, Nylon, Food-grade
Flexible Conveyor	Up to 150 kg/m	Expanded: up to 15 m		Manual	2°–5°	Roller: MS Galvanized steel, PVC- Coated
Telescopic Conveyor	Up to 250 kg/m	8 – 20 m (extended)		10 - 15 m/min	0°–20°	High-Tension PVC/Rubber belt
Z-Type Conveyor	Up to 100 kg/m	Height: up to 15 m		5 - 25 m/min	30° to 75°	PU/PVC, Rubber, Food-grade
Turntable Conveyor	Up to 250 kg	Dia: 800 – 3000 mm		Indexing / Continuous	360° rotation	Roller: MS Galvanized steel, PVC- Coated
L-Type Conveyor	Up to 100 kg/m	Height: up to 10 m		5 - 25 m/min	30° transfer	Modular Plastic Belt, Rough Top PVC/PU
Spiral Conveyor	Up to 100 kg/m	Height: up to 10 m		5 - 25 m/min	Continuous spiral	Modular Plastic Belt, PVC/PU, Rubber Belt

-  **Truck Loading / Unloading Conveyor:** Fast and efficient loading & unloading of cartons and packages
-  **Telescopic Conveyor:** Extendable design for deep vehicle loading and flexible reach
-  **Z-Type Conveyor:** Space-saving vertical transfer with controlled elevation change
-  **Turntable Conveyor:** Smooth 360° product direction change and flow diversion
-  **L-Type Conveyor:** Right-angle transfer for optimized layout and space utilization
-  **Spiral Conveyor:** Continuous vertical conveying with minimal floor space

WAREHOUSING & LOGISTICS
PACKAGING LINES
MANUFACTURING PLANTS
FOOD & FMCG
CEMENT & HEAVY INDUSTRIES

WHY CHOOSE RP AUTOMATION ?

-  CUSTOM ENGINEERED |  FLEXIBLE LAYOUTS |  PROCESS-SPECIFIC DESIGN
-  AUTOMATION READY |  SAFETY COMPLIANT



BUCKET CONVEYOR SYSTEM

We manufacture high-performance **bucket elevator systems** designed for vertical handling of bulk materials such as **grains, powders, granules, and aggregates** across industries including **agriculture, food processing, cement, and minerals**. Our bucket elevators are engineered for **efficient, continuous operation**, with designs optimized for **capacity, lift height, bucket spacing, and drive power**. Systems are custom-designed to suit material characteristics and process requirements, ensuring gentle handling and minimal spillage. All bucket elevators are designed in accordance with **international design and safety standards**, offering reliable performance, low maintenance, and long service life.

TYPES OF BUCKET CONVEYORS OFFERED



- * Key Features & Options
 - Types: Centrifugal, Continuous, Positive Discharge, Super Capacity
 - Buckets: Plastic, MS, SS, Nylon
 - Design Standards: ISO, DIN, IS, CEMA

- Casing Material: MS / Powder Coated / SS 304 / SS 316
- Drive Options: Geared Motor, VFD Controlled
- Safety: Backstop, Speed Monitor, Belt Misalignment Switch

Bucket Elevator Type	Bucket Type /Discharge	Capacity Range	Bucket Size /Width Range	Lifting Height	Belt /Chain Type	Material Options
Centrifugal Discharge Bucket Elevator	Spaced buckets / Centrifugal	20 – 1000 TPH	150 – 1000 mm	Up to 60 m	Rubber belt / Chain	MS / SS
Continuous Discharge Bucket Elevator	Close-spaced / Gravity	10 – 600 TPH	150 – 900 mm	Up to 45 m	Rubber belt / Chain	MS / SS

WHY CHOOSE RP AUTOMATION ?

- CUSTOM DESIGNED | HEAVY DUTY | LOW MAINTENANCE | ENERGY EFFICIENT | SAFETY COMPLIANT
- FOOD PROCESSING | GRAIN HANDLING | CEMENT & MINERALS | CHEMICAL & FERTILIZER PLANTS

AUTOMATION, CONTROLS & ELECTRICAL CAPABILITY

SMART AUTOMATION SOLUTIONS FOR EFFICIENT MATERIAL FLOW

At RP Automation, we provide end-to-end automation, controls, and electrical solutions integrated seamlessly with material handling systems. Our solutions ensure safe operation, higher throughput, real-time monitoring, and scalability for future expansion.

AUTOMATION & CONTROL SYSTEMS

- ✓ PLC-based Automation Systems
- ✓ HMI & SCADA Development
- ✓ Conveyor System Automation
- ✓ Sequence & Logic Development
- ✓ Interlocking, Safety & Alarm Management



PLC, HMI & SCADA EXPERTISE

Component	Capability
PLC Programming	Conveyor logic, sequencing, Interlocks
HMI Development	Operator-friendly touch screens
SCADA Systems	Monitoring, reporting, alarms
Communication	Ethernet, Modbus, Profibus
Data Logging	Production & fault analysis

ELECTRICAL DESIGN & PANEL MANUFACTURING

- ✓ Control Panel Design & Manufacturing
- ✓ MCC, PCC & VFD Panels
- ✓ Power Distribution Panels
- ✓ Field Wiring & Cable Management
- ✓ On-site Installation & Testing



SAFETY & COMPLIANCE

- ✓ Emergency Stop Circuits
- ✓ Safety Relays & Interlocks
- ✓ Overload & Short-Circuit Protection
- ✓ Conveyor Guarding Integration
- ✓ System Fail-Safe Design



RP AUTOMATION

WHY CHOOSE RP AUTOMATION

Your Reliable Partner in Material Handling & Automation

Choosing the right automation partner is critical to the success of your project. RP Automation stands out through its engineering expertise, customer-focused approach, and end-to-end project responsibility, delivering systems that perform reliably throughout their lifecycle.

END-TO-END SOLUTIONS | STRONG AUTOMATION & CONTROL EXPERTISE
CUSTOMIZED ENGINEERING | QUALITY & RELIABILITY | SINGLE-POINT RESPONSIBILITY

Let's Build Smarter Material Handling Solutions Together

At RP Automation, we partner with customers to deliver reliable, efficient, and customized material handling & automation solutions. Get in touch with us to discuss your next conveyor or automation project.

Get in Touch

RP AUTOMATION

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CONTACT US TODAY

TO SCHEDULE A TECHNICAL DISCUSSION.

- ✓ Conveyor System Design & Manufacturing
- ✓ Automation, Controls & Electrical Integration
- ✓ Plant Expansion & System Upgradation
- ✓ Customized Material Handling Solutions
- ✓ After-Sales Service & Technical Support



Engineered Solutions for Efficient, Reliable & Intelligent Material Handling
