

EDITION 2026

Innovative Conveyor Solutions



MetaRoller
Conveyor Systems

MOTORIZED FLEXIBLE CONVEYOR

The Motorized Flexible Conveyor is engineered to deliver adaptive and high-efficiency material flow within dynamic logistics operations.

Integrating driven roller technology with an expandable accordion structure, the system ensures controlled product transfer while extending, retracting, or curving into S, L, or U configurations as required by the layout.

Its modular construction eliminates the constraints of fixed conveyor lines, providing scalable flexibility, rapid deployment, and dependable industrial performance in evolving operational environments.

Metaroller operates as a project-driven industrial conveyor manufacturer, delivering modular and scalable material handling systems aligned with European logistics standards.

SMART MOTION FOR EVERY INDUSTRY

Motorized flexible conveyors are widely implemented across e-commerce distribution centers, warehouse operations, truck loading and unloading zones, food packaging facilities, airport cargo terminals, and temporary transfer points.

Built for continuously changing operational environments, the system can be quickly repositioned and reconfigured to maintain workflow continuity, optimize space utilization, and deliver consistent material flow performance.



2025 MANUFACTURING ACHIEVEMENT

In 2025, Metaroller completed the production of 23 motorized flexible conveyor systems, each 10 meters in length, reaching a total installed capacity of 230 meters.

Commissioned at the logistics center of one of Turkey's leading e-commerce operators, the project delivered sustained performance, structural durability, and operational flexibility under intensive working conditions—further strengthening Metaroller's engineering capability in industrial conveyor solutions.



EFFICIENCY, FLEXIBILITY & DURABILITY

This system is engineered to enhance material flow accuracy while maintaining consistent operational reliability.

- **Motorized Rollers:** Reduce manual handling and increase throughput capacity.
- **Modular Architecture:** Enables fast integration into existing production and logistics lines.
- **German-Sourced Drive Rollers:** Ensure quiet operation and extended service life.
- **Low-Maintenance Structure:** Supports continuous and stable performance under demanding conditions.

Designed with a focus on energy efficiency, structural durability, and long-term operational adaptability.



GRAVITY ROLLER FLEXIBLE CONVEYOR

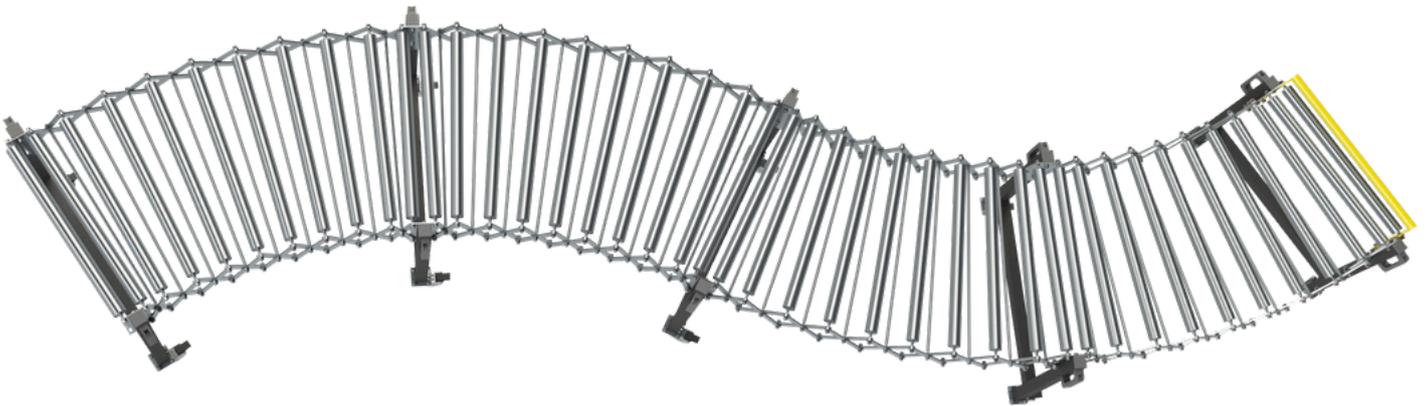
The Gravity Roller Flexible Conveyor is a gravity-operated, accordion-style system designed to provide adaptable and reliable material flow for industrial environments.

Manufactured in-house, each unit is built with high-quality European components to ensure structural durability, stable performance, and long service life.

Engineered according to project-specific requirements, the system integrates seamlessly into logistics and production lines of varying scales.

FLEXIBLE, DURABLE, AND SMOOTH FLOW

- Rollers are available in galvanized steel, stainless steel, aluminum, or plastic configurations to match operational requirements.
- Ball-bearing construction enhances rolling efficiency, ensuring consistent and controlled product movement.
- System width, length, and support height can be configured to align with specific layout and load conditions.
- The inclined design enables natural gravity-driven transport, reducing energy dependency while maintaining steady flow.



EASILY ADAPTS TO ANY LAYOUT

Integrated handles and wheel assemblies allow safe and rapid repositioning within operational areas.

Locking mechanisms secure the system in place during operation.

The expandable accordion structure enables S, L, or U-shaped configurations, allowing smooth navigation around columns and structural constraints while maintaining uninterrupted material flow.



VERSATILE, ERGONOMIC, AND PRACTICAL

The system is widely utilized across multiple sectors:

- Logistics centers for transfer and truck loading operations
- E-commerce warehouses for inter-rack product movement
- Food and manufacturing facilities for packaged goods handling
- Airport cargo zones (pre- and post-screening processes)
- Corrugated cardboard and packaging lines as bridging conveyors between machines

Its adaptable structure, ergonomic handling, and straightforward installation contribute to efficient and stable day-to-day operations.

SKATEWHEEL FLEXIBLE CONVEYOR

The Skatewheel Flexible Conveyor is a gravity-operated, accordion-style solution developed for light-duty material handling applications.

Its expandable frame allows rapid extension and retraction, enabling efficient space utilization while integrating smoothly into production lines and storage zones.

The lightweight and portable structure supports operational flexibility and maintains consistent product movement within confined areas.

FLEXIBLE & PORTABLE

Designed for mobility and fast deployment, the system can be repositioned with minimal effort.

Its wheeled construction enables quick adaptation to changing workflow requirements across different operational zones.

The accordion mechanism allows S, L, or U-shaped configurations, supporting continuous and adaptable material flow.

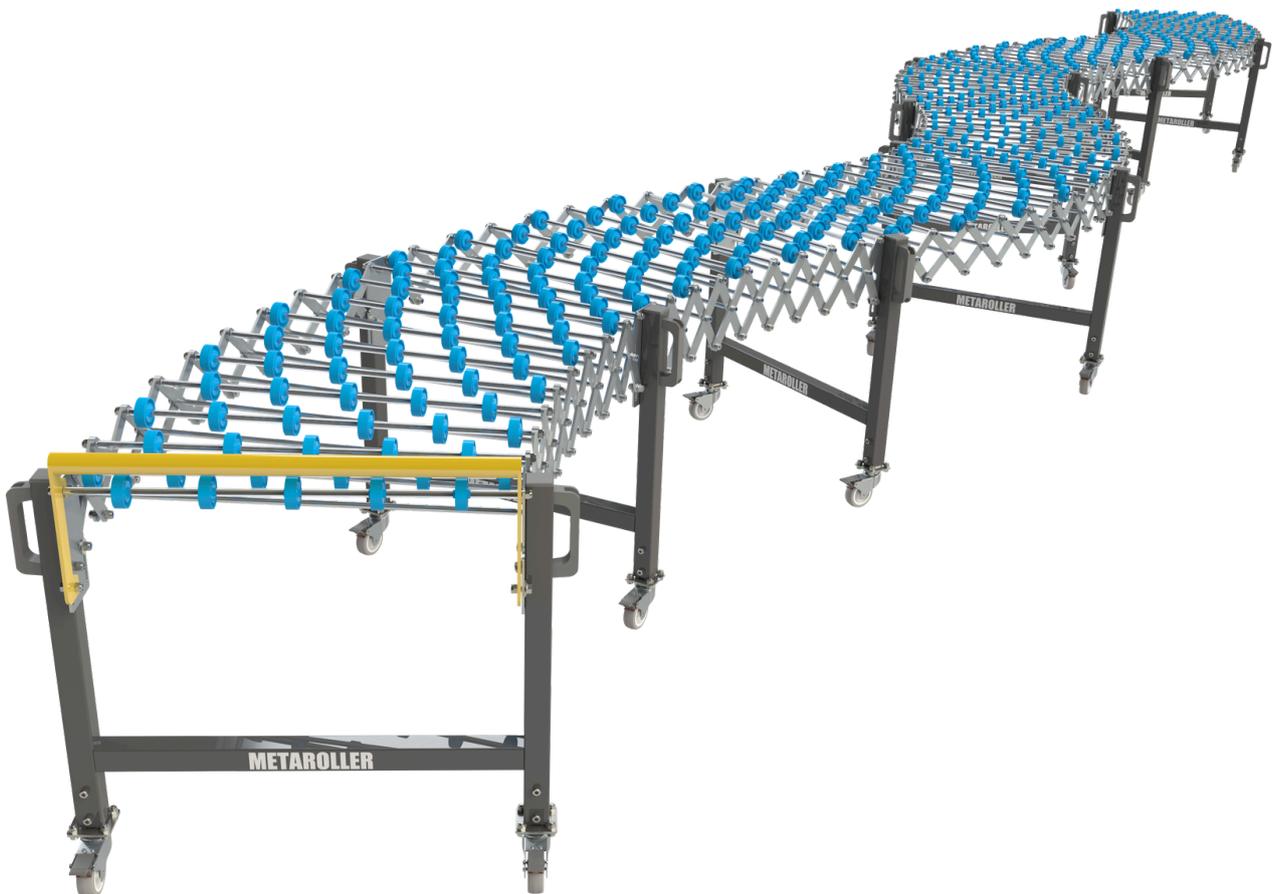


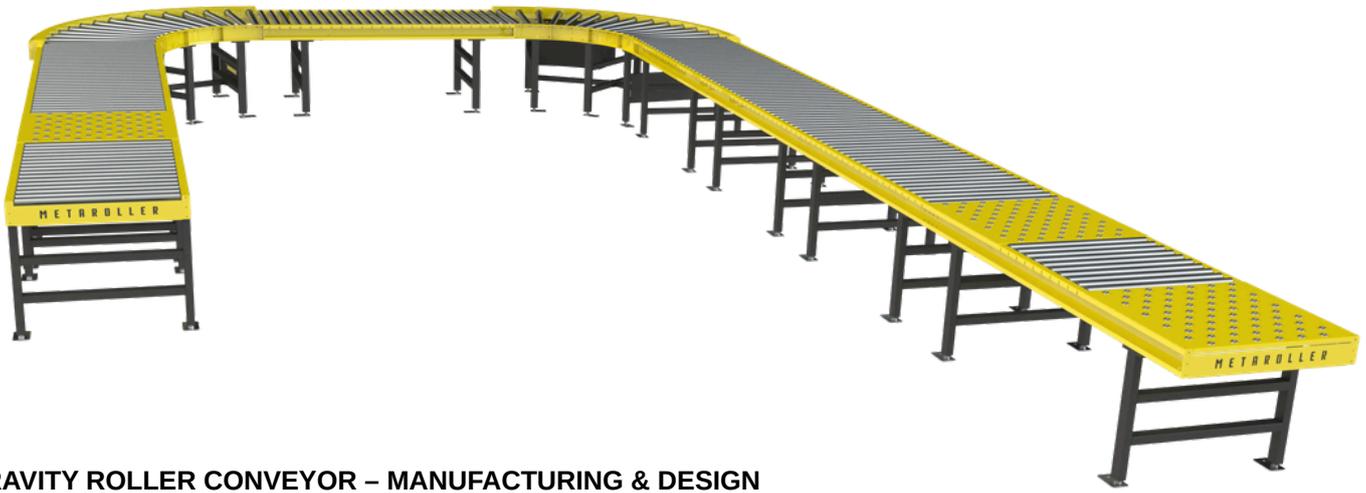
SOLUTIONS FOR LIGHT LOADS

This system is particularly suitable for transporting lightweight packaged goods in:

- E-commerce warehouses and production lines
- Food processing environments
- Packaging and corrugated cardboard facilities as feeder or bridging conveyors

The easy-to-clean structure and ergonomic design make it appropriate for operations where hygiene and careful handling are required.





GRAVITY ROLLER CONVEYOR – MANUFACTURING & DESIGN

Gravity roller conveyors are produced under a controlled in-house manufacturing process, combining precision fabrication with high-quality European components.

These gravity-operated systems are designed for long-term durability and stable performance across industrial production lines.

System width, length, and support height can be configured according to project requirements, ensuring seamless integration into varying operational layouts.

CUSTOMIZABLE ROLLERS & CONVEYOR TYPES

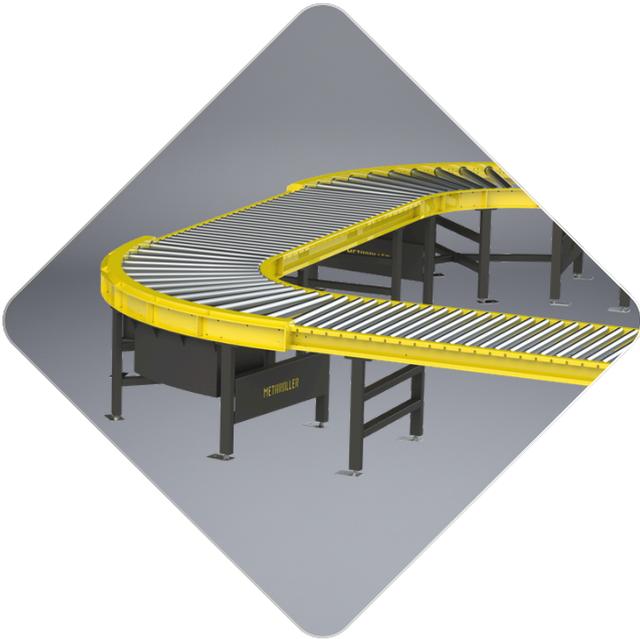
- Roller diameter and material selection are determined based on load characteristics and product type.
- Aluminum rollers are suitable for light-duty applications, while stainless steel options are preferred for food-grade and hygiene-sensitive environments.
- Ball-bearing construction supports efficient rolling performance and controlled product transfer.
- Systems can be configured as straight sections, 90° or 180° curves, or inclined layouts, depending on operational requirements.

APPLICATION AREAS

Gravity roller conveyors are implemented across diverse industries, including:

- White goods manufacturing – assembly and internal transfer lines
- Panel furniture production – part movement and cutting operations
- Automotive and electronics – assembly and testing environments
- Packaging and storage facilities – carton and unit load handling

They are recognized for cost efficiency, low energy dependency, and minimal maintenance requirements.

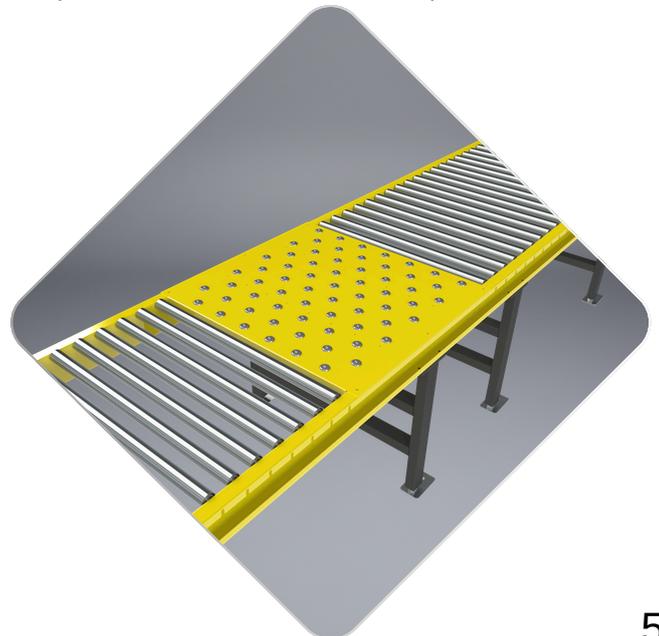


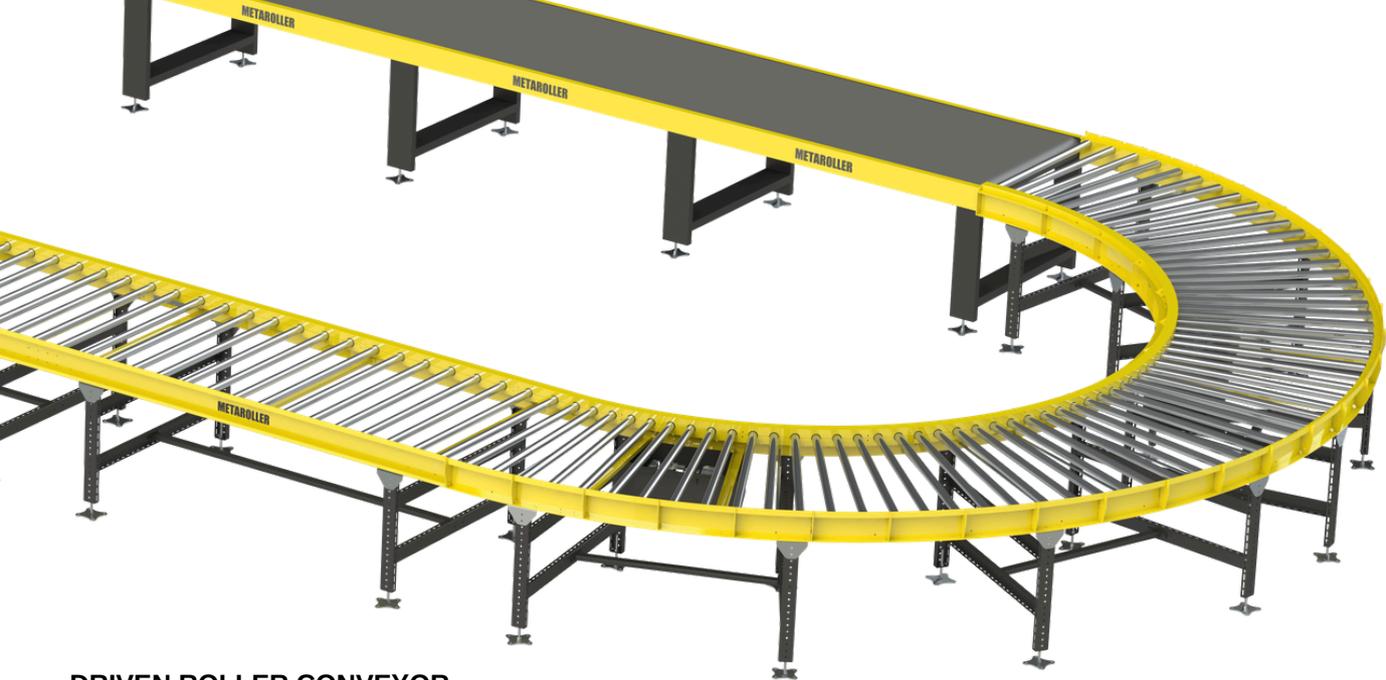
BALL TABLES 360° PRODUCT ROTATION & GUIDANCE

Ball tables allow 360° rotation and precise product positioning.

They are ideal for assembly lines, ensuring products are correctly oriented for the next operation.

Constructed with ball-bearing rollers and stainless steel, these tables are suitable for sensitive and hygienic production environments.





DRIVEN ROLLER CONVEYOR

Driven roller conveyor systems are engineered for project-specific applications requiring controlled and continuous material transfer.

Configurations include chain-driven, Poly-V belt-driven, and O-ring belt-driven solutions, selected according to load characteristics and system architecture.

Drive components are sourced from Germany, while chains and sprockets are manufactured in-house to maintain quality control, durability, and long-term operational stability.



TECHNICAL FEATURES & ADVANTAGES

These motorized systems are designed for palletized and heavy-duty product handling within industrial environments.

System dimensions—including width, length, and elevation—can be configured to meet layout and throughput requirements.

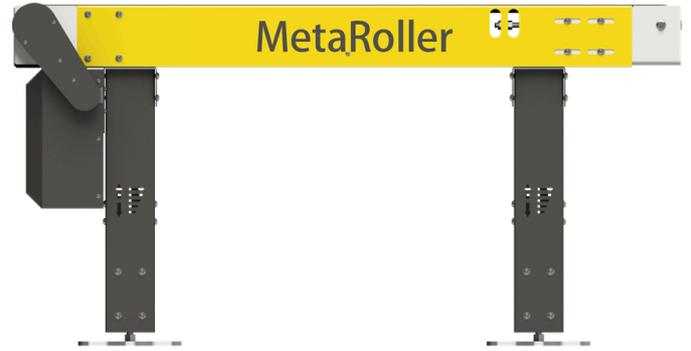
The motorized architecture supports energy-efficient operation, reduced maintenance intervals, and low-noise performance, contributing to stable and cost-effective production flow.

APPLICATION AREAS & REFERENCE PROJECTS

Driven roller conveyors are widely utilized in corrugated cardboard production and other heavy-duty transfer lines.

In a project implemented in Romania, an 80-meter driven roller system was integrated at the infeed and outfeed sections of a tunnel oven line, enabling controlled product transfer and sustained throughput performance.

The installation improved operational continuity and supported consistent line efficiency under demanding production conditions.



PVC BELT CONVEYOR

PVC belt conveyor systems are developed for production and logistics environments requiring stable and controlled product transfer.

They provide a clean, low-noise, and efficient conveying solution for light to medium-duty applications.

A 70-meter PVC belt conveyor line with integrated loading units was successfully implemented for a client in Stuttgart, reinforcing our turnkey engineering capability and compliance with European execution standards.

TECHNICAL FEATURES & CONFIGURATIONS

PVC belt conveyors can be manufactured with:

- Painted steel frame construction
- Aluminum sigma profile structure
- Stainless steel body configuration

Available layouts include straight sections, inclined systems, and 90° or 180° curved configurations. Belt type and operating speed are selected based on product characteristics, throughput targets, and layout constraints.

The integrated drive system, belt tensioning mechanism, and tracking control ensure stable, accurate, and continuous conveying performance.

These systems contribute to reduced manual handling, increased production capacity, and improved line efficiency.

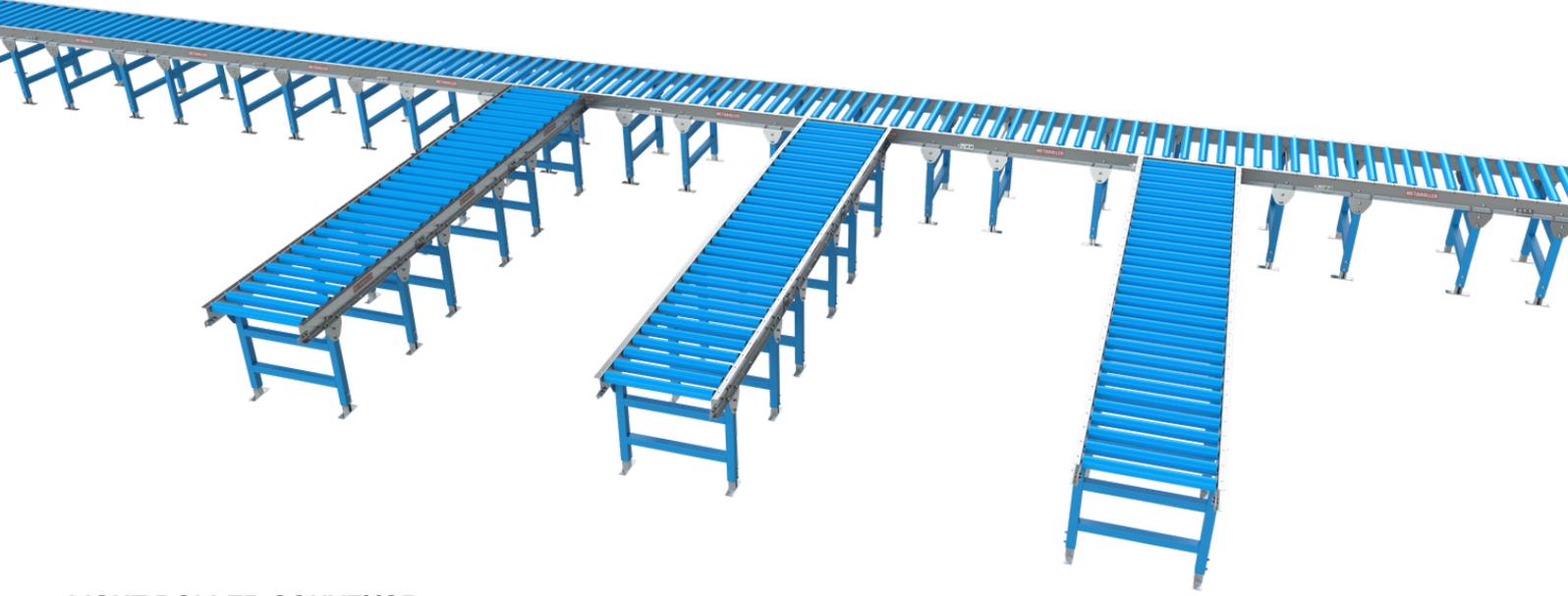


APPLICATION AREAS & USE CASES

PVC belt conveyors are implemented across multiple sectors, including:

- Logistics and transfer centers
- Production and assembly lines
- Plastic injection facilities—particularly for Z-type conveyor applications
- Inspection and packaging lines
- Hotel baggage handling systems
- Corrugated cardboard and waste carton transfer lines
- Food industry operations, including checkweigher integrations

By supporting controlled product handling and consistent flow performance, these systems enhance operational efficiency and reduce overall labor dependency.



LIGHT ROLLER CONVEYOR

The Light Roller Conveyor is developed for the safe and efficient transport of cartons, packages, and unit loads.

Operating without external power, the system supports energy-efficient transfer while protecting product integrity and integrating smoothly into warehouse, production, and logistics environments. It is manufactured under controlled production standards in Istanbul.



APPLICATIONS & OPERATIONAL BENEFITS

- Order Picking & Assembly Lines: Reliable handling of cartons and unit loads.
- Short-Distance Transfers: Efficient internal material movement within warehouses and logistics facilities.
- Energy Efficiency & Workplace Safety: Gravity-based operation reduces energy dependency and manual effort.

The Light Roller Conveyor provides a durable and practical solution for e-commerce warehouses, logistics centers, and packaging environments requiring simple and reliable transfer systems.

DESIGN & TECHNICAL HIGHLIGHTS

Durable Blue Plastic Rollers: Ball-bearing construction ensures consistent and controlled rolling performance.

High-Quality Roller Heads: Designed for extended service life and stable operation.

Gravity-Driven Operation (2–5% Incline): Enables movement without external energy input.

Modular & Adjustable Structure: Support height and system dimensions can be configured according to layout requirements.



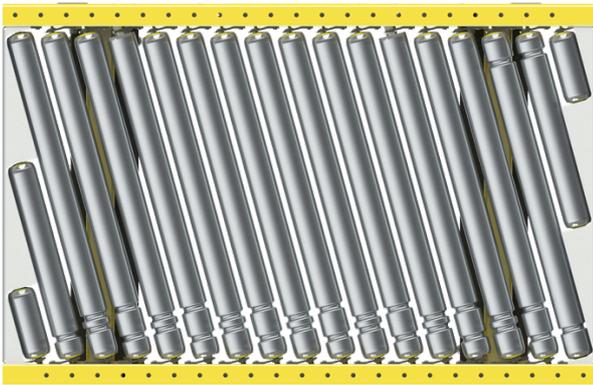


ALIGNMENT CONVEYOR

The Alignment Conveyor is engineered to maintain consistent product positioning within material handling lines.

Cartons, packages, and unit loads are guided toward lateral reference points, ensuring controlled orientation before entering downstream processes.

Its modular configuration enables straightforward integration into warehouse, production, and logistics systems.



DESIGN & TECHNICAL HIGHLIGHTS

The system incorporates German-sourced rollers and drive components to support stable and durable performance.

A rigid frame structure combined with modular assembly ensures long-term operational consistency and accurate product alignment across varying throughput conditions.

APPLICATIONS & OPERATIONAL BENEFITS

- Packaging lines requiring precise product alignment before carton closing or sealing
- Labeling and barcode application stations demanding consistent orientation
- Order picking and internal transfer systems
- Pre-sorting and inspection processes within automated lines

By ensuring controlled lateral positioning, the system prepares products for downstream operations such as packaging, labeling, scanning, or automated processing. Consistent alignment reduces manual intervention, minimizes positioning errors, and improves overall line stability and throughput efficiency.





CURVE CONVEYOR – GUIDE YOUR FLOW

Curve conveyors redirect cartons, packages, and unit loads through 45°, 90°, and 180° turns within material handling systems.

The modular structure enables quick integration into warehouse and production layouts. Tapered rollers and reinforced belt options maintain product stability, while the robust construction supports demanding loads and continuous operation in order picking, packaging, and transfer lines.

ONE SOLUTION, MULTIPLE OPTIONS

Design & Features

- Gravity-operated or motorized roller configurations
- PVC, PU, or modular belt alternatives
- Tapered roller systems for controlled product positioning
- Customizable angles and radii aligned with layout specifications

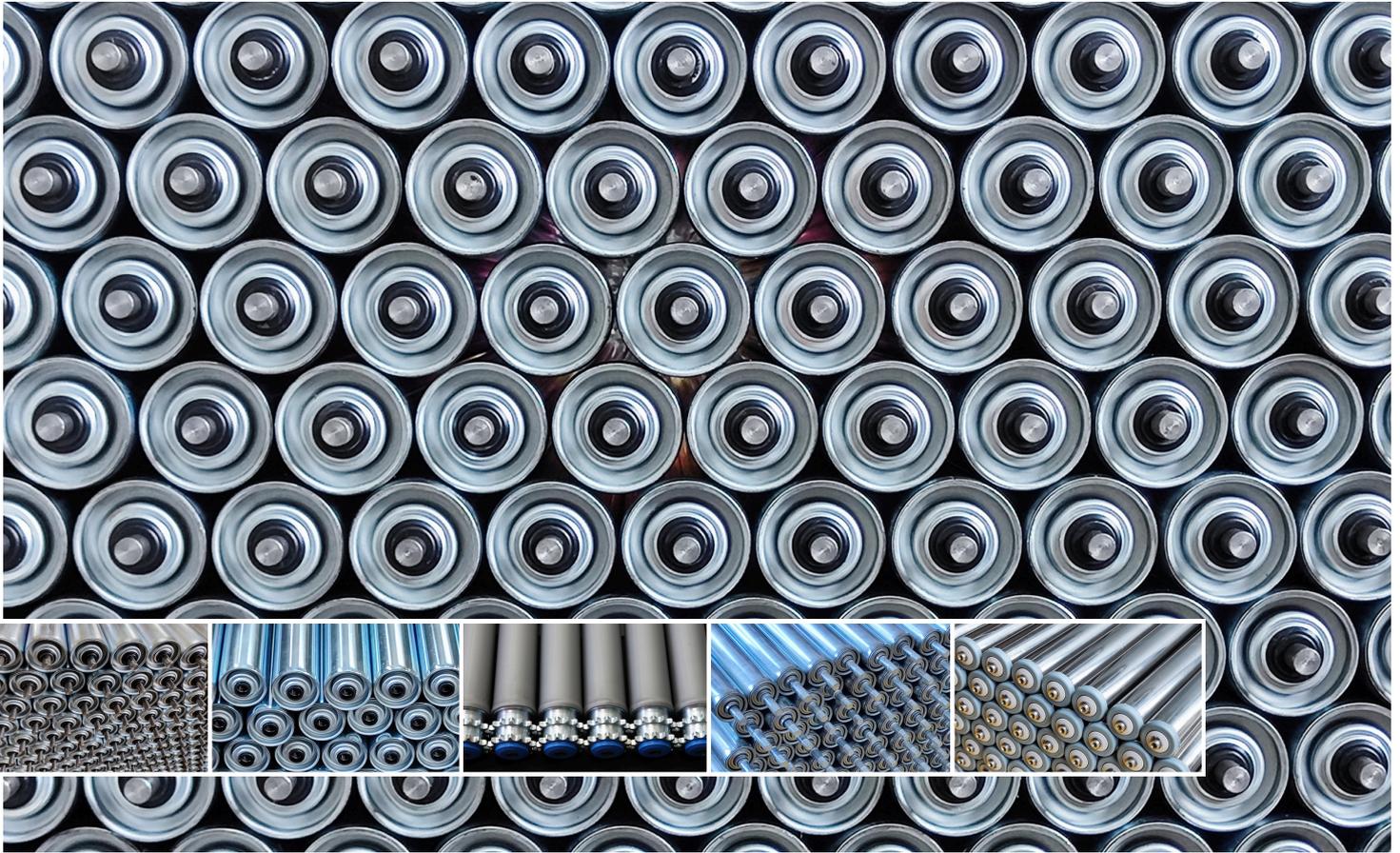


MAXIMIZE SPACE & IMPROVE FLOW

Applications & Operational Benefits

- Direction change without transfer gaps
- Maintains product orientation in curves
- Reduces manual handling points
- Optimizes layout around obstacles
- Ensures continuous material flow





CONVEYOR ROLLERS

Core Component of Material Handling Systems

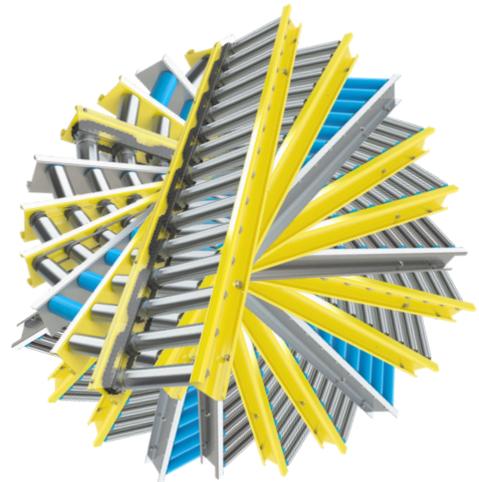
Metaroller manufactures conveyor rollers in-house under controlled production standards.

Each roller is engineered according to load, speed, environment, and system design.

Correct roller selection directly influences efficiency, energy consumption, and operational reliability.

Product Range – Conveyor Roller Selection

- Idler Roller: Gravity-based, low-maintenance solution
- Spring-Loaded Roller: Quick installation and easy replacement
- Driven O-Belt Roller: Controlled drive for modular systems
- Driven Poly-V Roller: High torque, quiet operation
- Chain-Driven Roller: Heavy-duty traction performance
- Tapered Roller: Stable alignment in curved conveyors
- Stainless Steel Roller: Hygienic and corrosion-resistant
- Aluminum Roller: Lightweight, low inertia
- Steel / Galvanized Roller: High structural strength
- Plastic Roller: Quiet and corrosion-resistant for light loads



OPERATIONAL ADVANTAGES

- High Efficiency: Proper roller selection accelerates inter-system transfers and ensures uninterrupted flow.
- Durability & Long Service Life: Application-specific material engineering reduces wear and total maintenance cost.
- Energy & Maintenance Optimization: Optimized idler and driven solutions lower power consumption and minimize downtime.
- Product Integrity: Surface treatments and coating options reduce damage risk for sensitive goods.

MetaRoller Conveyor Systems

REFERENCES



CE

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