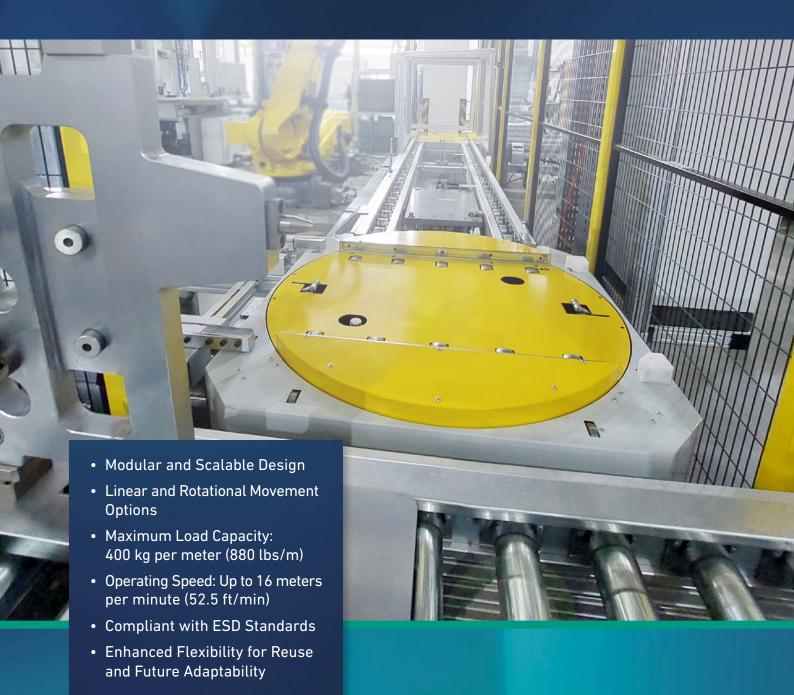


# PIA's customized conveyor systems – efficient and flexible



Efficient handling of heavy-duty components on assembly lines demands conveyor systems that are reliable, flexible, and engineered for complex operations.





# ROLLER CONVEYOR LINE - RCL 400

The roller conveyor line is a key component of the PIA conveying system, engineered to meet the demanding transport requirements of powertrain production - such as engine, transmission, and system assembly lines - as well as new energy automation, including drive motor, power battery, and energy storage equipment assembly lines. Designed for heavy-duty applications, the system delivers comprehensive, turnkey conveying solutions tailored to customer needs.

#### **PRODUCT FEATURES**

- Roller conveyor features a simplified structural design: ensuring smooth, stable, and reliable transport performance.
- Easy and efficient daily maintenance: helps ensure continuous, stable operation of the production line.
- Flexible and diversified conveyor path configuration: linear units can be easily expanded and integrated with rotary conveyors.
- Modular splice design: enables quick on-site assembly and easy transport, significantly reducing installation time and labor costs.
- Integrated accumulation and release functionality: allows precise control of material flow, minimizing contact wear between rollers and pallet friction strips, and extending component service life.
- **Bidirectional conveying:** allowing material flow direction to be adjusted based on production requirements, enhancing process flexibility.
- Highly adaptable and reusable: the system supports long-term use across product iterations (depending on actual working conditions), helping to reduce equipment replacement costs.

## AT A GLANCE

- Roller conveyor length: 400mm ≤ 6000mm
- Roller conveyor width: 320mm ≤ 1200mm
- Running speed: ≤ 16m/min
- The maximum load capacity: 400kg/m
- Transmission form: bevel gear
- Roller spacing ≥ 130mm, normally 130mm/150mm/200mm
- Friction bar material: stainless steel
- Frame form: Aluminum profile frame

## **DETAILS (OPTIONAL)**

- Motor brand options include SEW, NORD, Siemens, and others as required
- Flexible motor installation configurations based on layout and application needs
- Adjustable running speed available —
  if required, a frequency inverter (VFD) can
  be integrated for precise speed control

## **CUSTOMER BENEFITS**

- Efficient, continuous, and stable material flow, even in complex environments, aligning with production line timing to increase throughput
- Lower equipment wear and reduced maintenance costs, resulting in improved operational efficiency
- Enhanced flexibility and reusability, allowing the system to adapt to future production changes and reducing the need for equipment replacement





# **ROTARY TABLE - RT 400**

The Rotary Table is an integral component of the PIA conveyor system, engineered to meet the demanding transport requirements of powertrain production-such as engine, transmission, and system assembly lines-as well as new energy automation applications, including drive motor, power battery, and energy storage device assembly lines. Designed for heavy-duty use, it offers customers a comprehensive, flexible conveyor solution tailored to modern manufacturing needs.

#### **PRODUCT FEATURES**

- Compact design combined with high load capacity: delivers efficient space utilization without compromising strength.
- High-precision rotation and stable positioning technology: ensure accurate, zero-error process transitions.
- Adjustable speed: with smooth, stable operation accommodates multiple production rhythms and cycle times.
- Capable of rotating pallets 90° or 180°: without altering their conveying direction, offering greater layout flexibility.
- Bidirectional conveying and anti-shear safety design: deliver both high
  efficiency and operator safety, meeting the complex demands of modern
  production lines.
- Modular construction: supports reusability and easier upgrades, enabling seamless adaptation to future production requirements.

## AT A GLANCE

- WPC length: 400mm ≤ L ≤ 2000mm
- WPC width: 320mm ≤ B ≤1200mm
- Running speed: ≤ 16m/min
- The maximum load capacity: 400kg/m
- · Transmission form: bevel gear
- Roller spacing ≥ 130mm, normally 130mm/150mm/200mm
- Structure material: carbon steel welding

## **DETAILS (OPTIONAL)**

- Motor brands available: SEW, NORD, Siemens, and others upon request.
- Stopper brands supported: Festo, SMC, and additional options based on customer requirements.
- Rotary table types:
  - Rotary table with encoders for highprecision rotation control
  - Adjustable running speed: Available with integration of a frequency inverter (VFD) for variable speed control

## **CUSTOMER BENEFIT**

- Reliable, efficient, and stable material handling, even under complex production conditions; synchronizes with production line rhythm to boost throughput
- Minimized equipment wear and lower maintenance costs, contributing to improved system longevity
- Enhanced flexibility and reusability, supporting long-term adaptability to changing production needs and reducing equipment replacement investments





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