

CONTENTS

- »» **02** **REALKEY**——SORTING SOLUTIONS
FOR LOGISTICS OPERATIONS
- »» **10** **REALKEY**——PRODUCT PORTFOLIO
- »» **16** **REALKEY**——Company PROFILE
- »» **20** **REALKEY**——TECHNICAL ASSISTANCE
- »» **21** **REALKEY**——GLOBAL PROJECTS



REALKEY—SORTING SOLUTIONS FOR LOGISTICS OPERATIONS

We design automation solutions based on real operational challenges, to provide more customers reliable intelligent logistics products.

01 Courier & Parcel Logistics

Enable high-speed parcel processing for time-critical networks

02 E-Commerce Fulfillment

Automate high-mix fulfillment for fast-moving warehouses.

03 Fashion & High-SKU Sorting

Deliver precision sorting for complex apparel skus.

04 Returns & Reverse Logistics

Enable high-speed parcel processing for time-critical networks.

05 Fresh & Fragile Goods

Automate high-mix fulfillment for fast-moving warehouses

06 Printing And Publishing

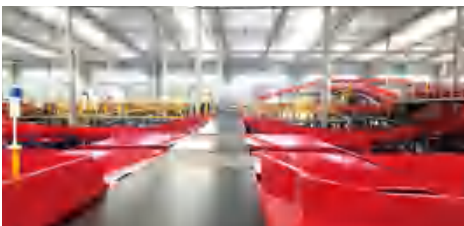
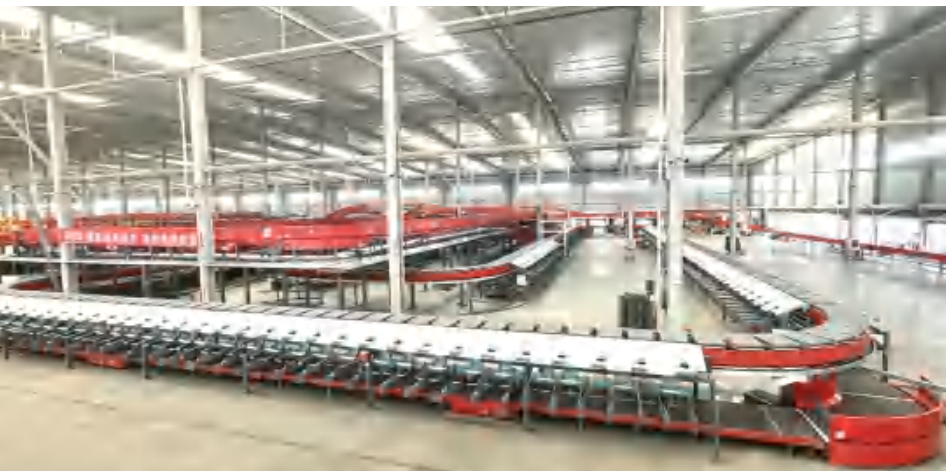
Deliver precision sorting for complex apparel skus.



01 Courier & Parcel Logistics

High-Speed Parcel Sorting System for Express, Courier & 3PL Hubs.

- Up to **22,000** parcels/hour
- **99.99%** sorting accuracy
- Stable **24/7** continuous operations
- **Zero** Jams on Soft & Irregular Parcels



Results After REALKEY Deployment

Before	After
6,000 parcels/hour	16,000 parcels/hour (2.7×)
Soft parcel jams every 20 minutes	Zero soft parcel jams, even under 4× peak load
20 workers per shift	8 workers per shift (60% reduction)
Frequent line stoppages	Continuous stable operation
SLA penalty exposure	Consistent dispatch cut-off compliance

Who This Solution Is For

- Brand.com fulfillment centers
- Same-day fulfillment hubs
- Direct-to-consumer (DTC) fulfillment centers
- Omnichannel warehouse operations
- Marketplace seller fulfillment networks
- E-commerce 3PL warehouses
- High-volume pick-pack-ship operations

Scalable from 3,000 to 30,000+ parcels/hour across operational scales.



02 E-Commerce Fulfillment

High-Speed Sortation Engineered for Peak Stability, Not Just Average Volume.

- Up to **22,000** parcels/hour
- **99.99%** sorting accuracy
- Stable **24/7** continuous operations
- Consistent peak throughput

Results After REALKEY Deployment

Before	After
Throughput instability during peaks	Stable 20,000+ parcels/hour for all packaging types
Polybag jams every 15–20 minutes	Near-zero soft-parcel jams in peak dispatch waves
80+ campaign operators	62% labor reduction
Manual overflow handling during promotions	Uninterrupted automated mixed-parcel flow
12-person merge-wall consolidation	Merge wall eliminated via order-level routing
Dispatch SLA failures during spikes	Reliable same-day outbound performance
Facility expansion pressure	2.4× higher peak volume with no expansion

Who This Solution Is For

Omnichannel warehouse operations

Direct-to-consumer (DTC) fulfillment centers

E-commerce 3PL warehouses

Same-day fulfillment hubs

Scalable from 3,000 to 30,000+ parcels/hour for all operational sizes.

03 Fashion & High SKU Fulfillment

High Speed Sortation for Apparel, Footwear & Accessories — Where Every Season Is a New Catalog.

- Up to **22,000** parcels/hour
- **100,000+** SKU support
- Same day returns restock
- Stable **24/7** continuous operations

Results After REALKEY Deployment

Before	After
120,000 active SKUs, visual identification required	Same 120,000 SKUs, barcode based — zero memorization
85 workers per shift, 25 extra for returns weekends	26 workers (69% reduction), no separate returns shift
10,000 pieces/hour throughput	22,000 pieces/hour (2.2× throughput)
2.3% fabric damage — €175,000 annual markdowns	Near zero damage rate across all fabric types
Returns restock cycle: 4 days	Returns restock cycle: same day availability
8%+ temp worker error rate during launches	99.99% accuracy, new collections onboard in hours

Who This Solution Is For

Multi brand fashion
distribution centers

Fast fashion e-commerce
fulfillment hubs

Apparel and footwear
3PLs serving multiple
DTC brands

Department store
omni channel DCs

High return volume
fashion returns
processing centers

Scalable from 3,000 to 30,000+ parcels/hour for all operational sizes.





04 Fresh & Fragile Goods

Gentle, High Speed Sortation for Perishables, Glass, Ceramics & Damage Sensitive Products.

- Up to **22,000** parcels/hour
- 99.99%** sorting accuracy
- Unified mixed product flow
- Stable **24/7** continuous operations

Results After REALKEY Deployment

Before	After
Fragmented fragile workflows	Unified mixed flow system
65 workers per shift	22 workers (66% reduction)
Weekly glass breakage incidents	Near zero breakage
€210,000+ annual losses	Eliminated contamination driven losses
Peak instability	Stable high volume throughput
Separate fragile zones	Reclaimed floor space

Who This Solution Is For

Grocery e-commerce fulfillment centers

Beverage & wine distribution hubs

Fresh food logistics operators

Meal kit fulfillment companies

Scalable from 3,000 to 30,000+ parcels/hour for all operational sizes.

05 Retail Store Distribution

High Speed Store Allocation & Retail Replenishment System for Distribution Centers.

- Up to **22,000** parcels/hour
 - Mixed category processing
- **99.99%** store allocation accuracy
 - Stable **24/7** continuous operations

Results After REALKEY Deployment

Before	After
115 workers per shift	28 workers (76% reduction)
95% store allocation accuracy	99.99% allocation accuracy
45+ temporary workers during peaks	Temporary labor eliminated
12% promotional allocation error rate	Stable campaign execution across all stores
High inter store transfer cost	Near zero correction handling
3-5 hours store re sorting	Under 25 minutes handling time
Slow promotional rollout	Network wide campaign completion within 48 hours

Who This Solution Is For

Retail distribution centers

Omnichannel retail fulfillment operations

Apparel & fashion distribution hubs

Footwear & cosmetics distribution networks

Scalable from 3,000 to 30,000+ items/hour across retail operational scales.





06 Returns & Reverse Logistics

Signal Driven Returns Execution System for Restock, Repair, Resell, Recycle & Disposal Operations.

- Up to **22,000** parcels/hour
 - Signal driven execution
- 99.99%** sorting accuracy
 - Stable **24/7** continuous operations

Results After REALKEY Deployment

Before	After
55 workers handling physical routing	43 manual handling roles eliminated
4% physical misrouting rate	Near zero (<0.01%) routing deviation
Overflow staging during peak periods	Continuous stable execution flow
3–5 day restock cycle	Same shift inventory recovery
Grading interrupted by handling tasks	Grading fully decoupled from execution
Recovery leakage across channels	Controlled, traceable flow

Who This Solution Is For

E-commerce returns processing centers

Fashion & apparel reverse logistics hubs

Omni channel retail operations

Third party reverse logistics providers

Scalable from 3,000 to 30,000+ parcels/hour for all operational sizes.

Product Portfolio

Four Core Series

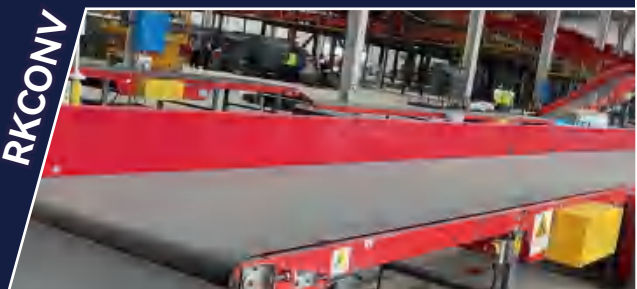
Our R&D team brings together expertise in mechanical design, automation control, and information processing, dedicated to technological innovation and product optimization.

Leveraging modern R&D facilities and an exceptional corporate culture, we continuously enhance product performance to meet market demands and advance industry progress.

RK SORT



RK CONV



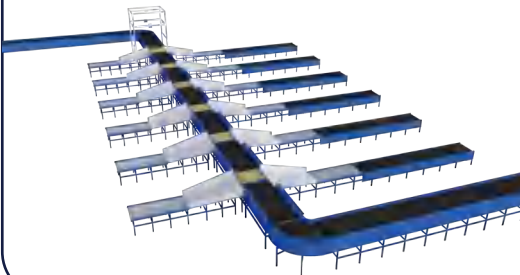
RK LOAD



RK MODU



01 Sorter Series

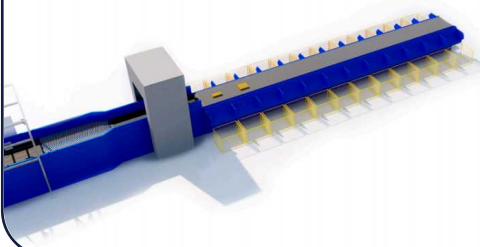


Swivel Wheel Sorter (RKSORT-SWS)

The Swivel Wheel Sorting Machine (also called Divert Wheel or Rotating Wheel Sorter) uses electric drums driven by servo motors and steering modules to change direction, diverting items left or right. It handles cartons, waterproof bags, woven bags, and flat-bottomed irregular items up to 50 kg.

· 6,000 pcs/h; · 99.99% read rate; · Heavy-Duty Sorting Solution.

01 Sorter Series

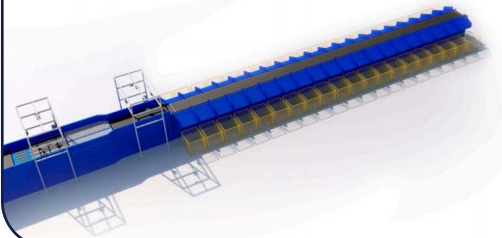


Modular Belt Sorter (RKSORT-MBS)

The RKSORT-MBS is a high-efficiency modular belt sorter for modern logistics. It uses an intelligent belt conveyor with dynamic tracking and real-time data processing to sort packages by barcode or weight, diverting them to designated chutes.

· 5,000 pcs/h; · 99.99% read rate; · Compact footprint.

01 Sorter Series

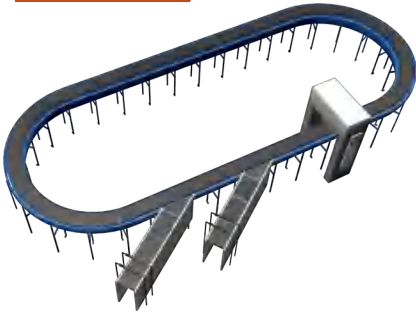


Narrow Belt Sorter (RKSORT-NBS)

The Realkey Narrow Belt Sorter provides an efficient and reliable solution for sorting packages and cartons of various sizes. It is particularly advantageous for items with low impact requirements, such as fresh produce, where the Narrow Belt Sorter demonstrates unique benefits.

· 8,000 pcs/h; · 99.99% read rate; · Innovative Design.

01 Sorter Series

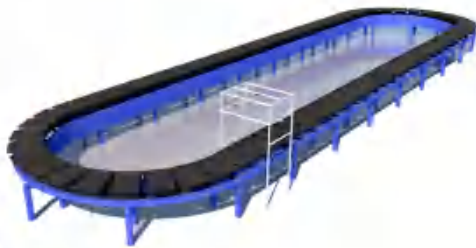


Cross Belt Sorter (RKSORT-CBS)

The Realkey Cross Belt Sorter offers flexible, multi-size and multi-directional sorting for parcels and cartons. Available in ring-type and linear-type configurations, it supports manual or automated loading, handles diverse item types, and is widely used in e-commerce, express delivery, and other industries.

- 22,000 pcs/h;
- 99.99% read rate;
- Strong Adaptability.

01 Sorter Series

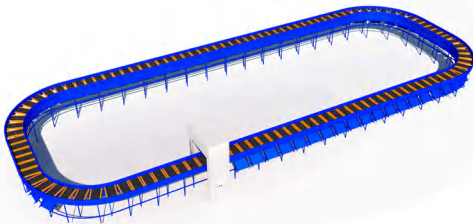


Tilt Tray Sorter (RKSORT-TTS)

The Tilt Tray Sorter is an economical, practical device for sorting small to medium-sized packages. It uses motor-driven carts carrying trays that tilt at destinations, allowing items to slide out. It handles a wide variety of items including parcels, boxes, envelopes, flat items, and even cylindrical or spherical objects that are difficult for other sorters.

- 21,600 pcs/h;
- 99.99% read rate;
- Simplifying Irregular-Shaped Item Sorting.

01 Sorter Series

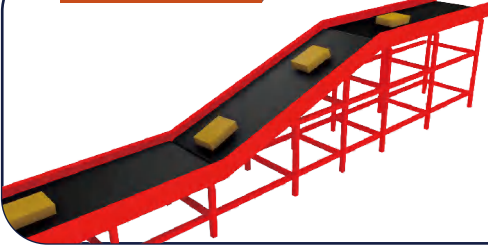


Split Tray Sorter (RKSORT-STTS)

The Split Tray Sorter also known as the Bombay Sorter, is designed for efficient sorting of small to medium items, especially flat ones. It uses an elliptical horizontal loop with single or double-row trays. Items ride in the trays; at the destination, the tray halves open like doors to drop items vertically into a chute or bin, completing the sort.

- 10,800 pcs/h;
- 99.99% read rate;
- Small/Medium Items Sorting.

02 Conveyor Series

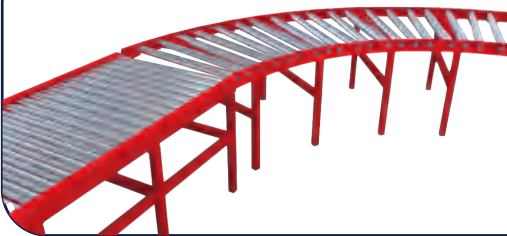


Belt Conveyor (RKCONV-BC)

Belt conveyors feature stable transportation, high efficiency, low noise, and minimal energy consumption. They are suitable for various shaped items such as cartons, bags, turnover boxes, and plates.

- Smooth, heavy-duty, intelligent.
- Adapts to cartons, pallets, etc.
- via flat/inclined/curved paths.

02 Conveyor Series

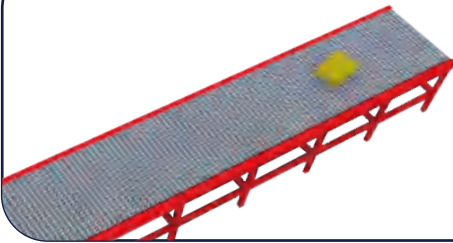


Roller Conveyor (RKCONV-RC)

The Roller Conveyor is available in two types: powered and gravity. Roller conveyor lines are easy to connect and transition between, and can be combined to form complex automated logistics conveyor systems.

- Proven reliable
- Heavy-duty versatility.

02 Conveyor Series

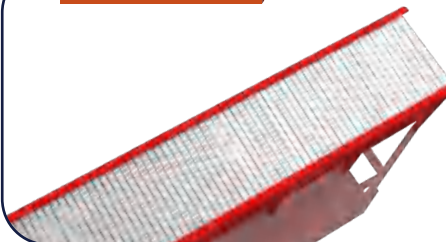


Modular Conveyor (RKCONV-MC)

Using a modular plastic belt as the conveying medium, it is driven continuously by a drive unit to achieve smooth and precise item transportation.

- Flat Modular
- Light/Medium/Heavy-duty specifications

02 Conveyor Series

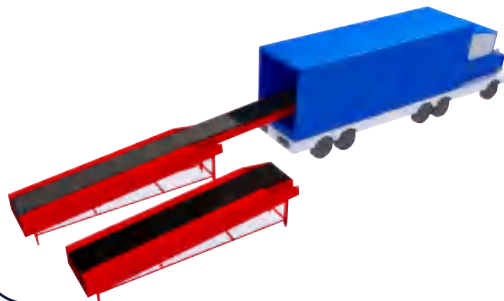


Chain Conveyor (RKCONV-CC)

The Chain Conveyor uses chains as traction components and achieves material transport through the meshing transmission of chains and sprockets, making it especially suitable for continuous handling of heavy materials and large-volume heavy loads.

- Ideal for heavy materials like metal parts, industrial pallets, and bulk cargo.

03 Loader Series

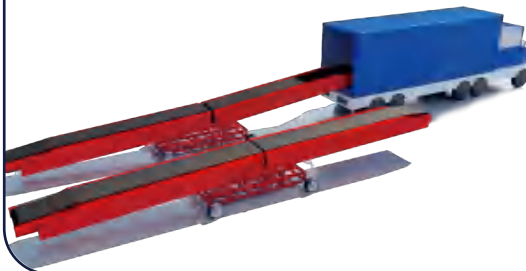


Mini Telescopic Belt Conveyor (RKLOAD-MINITBC)

The Mini Telescopic Belt Conveyor is designed for limited loading and unloading spaces. It features a two-section telescopic structure with a lightweight body, allowing a single person to handle equipment movement and loading/unloading operations.

- Compact and Flexible; · Simple Operation; · Safe and Efficient.

03 Loader Series

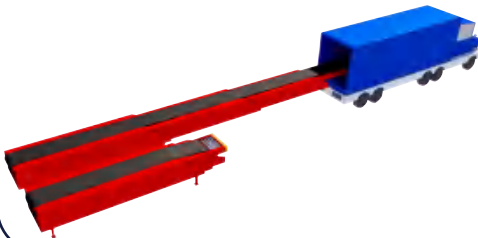


Mobile Loading Machine (RKLOAD-MVL)

The Mobile Loading Machine consists of two flat sections (front and rear) and an adjustable-height ramp section in the middle. Its robust structure is suitable for loading and unloading goods weighing up to 60 kg per piece, and it can be easily moved by 1-2 people.

- Heavy Load Bearing · Convenient to Use; · Safe and Efficient.

03 Loader Series



Telescopic belt conveyor (RKLOAD-TBC)

The Telescopic belt conveyor can freely adjust its length and angle within a certain range, and enables bidirectional conveying to meet both loading and unloading needs. It shortens manual handling distances, thereby reducing labor intensity, minimizing product damage, and improving efficiency.

- Cost Reduction and Efficiency Improvement; · Smooth and Safe Conveyance.

04 Modules Series

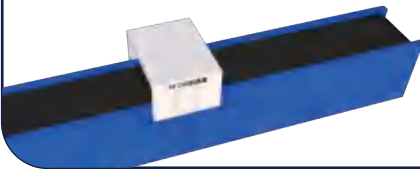


Six Sides scanning and identification system (RKMODU-6SCN)

The Six Sides scanning and identification system (RKMODU-6SCN) is an advanced automated recognition technology device, specifically designed for the comprehensive scanning and information retrieval of all six sides of an object quickly and accurately.

- Comprehensive Scanning · High-Speed and High-Precision Recognition.

04 Modules Series



RFID identification system (RKMODU-RFID)

The Realkey RFID identification system (RKMODU-RFID) is an automatic identification system based on wireless radio frequency communication technology, capable of contactlessly reading RFID tag information attached to items.

- Contactless Reading · Batch Reading · Large Data Capacity

04 Modules Series

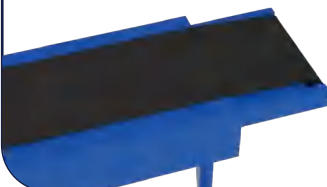


Parcel Singulator(RKMODU-SGL)

The Realkey Parcel Singulator (RKMODU-SGL) can automatically separate, space, and queue disordered parcels from upstream, allowing them to pass in an orderly manner. It is typically installed at the front end of various automated sorting solutions.

- Strong Applicability · Labor Cost Saving · Efficiency Improvement.

04 Modules Series



Fire Disconnect Conveyor (RKMODU-FDC)

The Realkey Fire Disconnect Conveyor (RKMODU-FDC) is an automated device specifically designed for fire safety and emergency rescue situations in logistics centers, production workshops, and similar environments.

- Rapid Response · Flexible Retraction · Intuitive Indication.

About Realkey >>>

Qingdao Realkey Machinery Co., Ltd. 青岛瑞奇机械有限公司 是一家专业从事垃圾分拣设备研发、生产、销售和服务的高新技术企业。公司总部位于中国青岛，拥有完善的生产体系和强大的技术实力。公司主要产品包括垃圾分拣机、垃圾破碎机、垃圾压缩机等，广泛应用于城市生活垃圾、工业垃圾、建筑垃圾等的处理。公司秉承“诚信、创新、务实、共赢”的经营理念，为客户提供优质的产品和服务。公司占地面积约 12000 平方米，拥有员工 20000 余人。公司自成立以来，一直保持着良好的发展态势，产品远销国内外，深受客户的认可和好评。公司未来将继续加大研发投入，不断提升产品品质和服务水平，为客户提供更加优质的产品和服务。

19

• 公司成立 19 周年

100+

• 公司拥有 100 多项专利

12000+

• 公司拥有 12000 多平方米

20000+

• 公司拥有 20000 多名员工

公司成立 19 周年
公司拥有 100 多项专利
公司拥有 12000 多平方米
公司拥有 20000 多名员工

公司拥有 100 多项专利
公司拥有 12000 多平方米
公司拥有 20000 多名员工

公司拥有 100 多项专利
公司拥有 12000 多平方米
公司拥有 20000 多名员工

公司拥有 100 多项专利
公司拥有 12000 多平方米
公司拥有 20000 多名员工

2021

2023

2025

Future

Expert Team >>>

Craftsmanship: The Foundation of Our Strength

Our core strength lies in our dedicated team of artisans, who possess deep expertise in precision manufacturing. Composed of mechanical design, automation control, and IT specialists—all college-educated—this team is committed to delivering products and services of the highest quality. Guided by a principle of relentless precision and a zero-defect standard, our craftsmen integrate extensive experience with meticulous skill into every step of the process. They expertly operate advanced equipment while maintaining an unwavering attention to detail, ensuring millimeter-level accuracy from machining to final assembly.



Manufacturing >>>

Modern production workshops ensure that every product meets the highest standards

The company operates its own spacious and clean modern production workshops, equipped with a complete set of advanced processing, production, and inspection equipment.

Advanced Labs and Collaborative Workspace

Our advanced labs, equipped with prototyping and testing technologies, enable rapid idea validation. Integrated with collaborative workspaces featuring open layouts and digital tools, they break down departmental barriers. This synergy accelerates innovation, shortens development cycles, and ensures the delivery of cutting-edge automated solutions.



OEM/ODM Service >>>

We provide comprehensive OEM and ODM services to help you build a distinctive brand identity in the global market.

OEM Customized Services

We closely follow your brand vision and product requirements, leveraging advanced production equipment and a rigorous quality management system. From material selection and product design to packaging, we ensure precise customization at every stage. Each product faithfully reflects your brand image—from concept to delivery.

ODM Integrated Solutions

Our ODM service goes beyond manufacturing to include innovative design. Supported by a skilled R&D team and sharp market insight, we offer end-to-end solutions—from product planning and development to final implementation. This enables your products to stand out in a competitive marketplace and maximize business value.



Professional Site Installation & Commissioning

At Realkey, we understand that world-class sorting equipment deserves world-class installation. Our certified installation teams bring decades of combined experience to every project site, ensuring that your system is delivered on time, on budget, and ready for peak performance from day one.



Technical Assistance

24/7 hotline to swift on-site support
Realkey delivers customized technical solutions,
minimizing downtime and maximizing productivity.

01 Preventive Maintenance

Customized service contracts with scheduled upkeep: repairs, maintenance, and upgrades to ensure peak system reliability.

02 24/7 Technical Hotline

Immediate expert support for all operational inquiries.

03 Spare Parts Service

Extensive inventory
Global 48-hour shipping guarantee.

04 Emergency Response

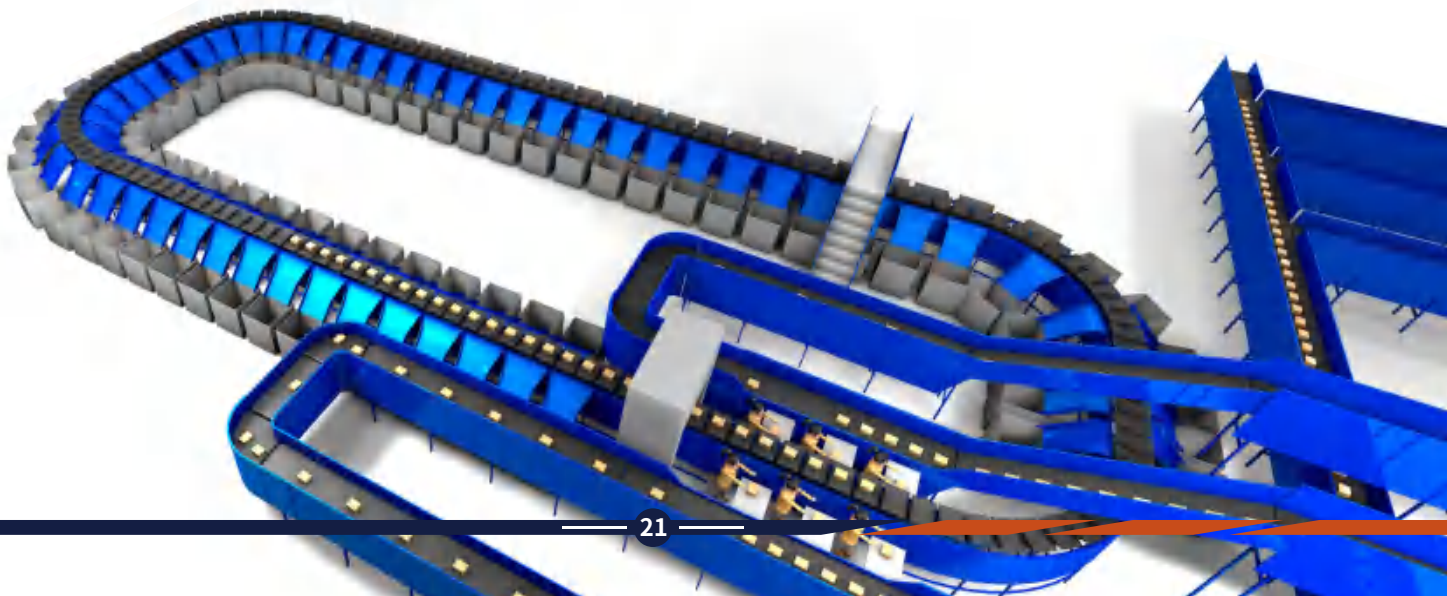
Certified technicians on standby—guaranteed ≤4hr on-site intervention to minimize downtime.

05 User Training

Post-install operator & maintainer training for competent daily operation and basic upkeep.

06 Compliance Audit

Free full-system inspection before warranty expiry to ensure optimal operation.



Global Projects

For 19 years, Realkey has delivered intelligent sorting solutions across 4 continents and 20 countries. With over 2,000 successful projects, our cross-belt, tilt-tray, swivel wheel, narrow belt, and modular belt sorters keep logistics moving — from e-commerce hubs to postal centers. Trusted by industry leaders like SF Express, JD.com, and China Post, we turn real-world challenges into proven results. Every installation reflects our commitment to efficiency, reliability, and customer success. Global reach, local expertise — Realkey empowers your logistics evolution.

19 Years | **4** Continents | **20+** Nations | **1000+** Solutions



**Excellent Quality
Service First
Creating Success
Together with You**

Realkey Machinery Qingdao Co., Ltd

 +86-532-82499066

 info@rksort.com

 111 Changping Road, Jiangshan Town,
Laixi, Qingdao, Shandong, China

 <https://www.rksort.com>


Realkey