

交叉带分拣机

CROSS BELT SORTER

多尺寸多路向灵活分拣
挑战空间极限提升处理效率

Product Overview

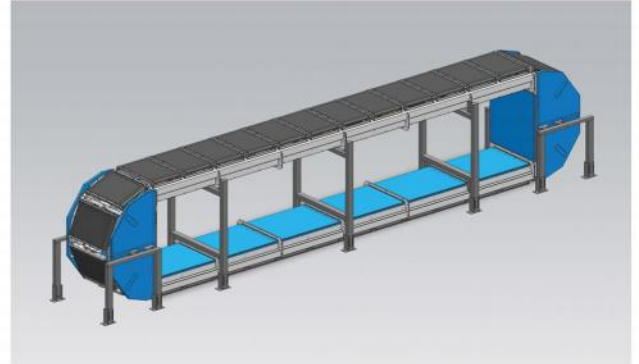
产品概述 >>>>

交叉带分拣机

Cross Belt Sorter

交叉带分拣机 (RKSORT-CBS) 为高效分拣不同大小的包裹、纸箱等物品提供了可靠的解决方案。交叉带分拣机由轨道、小车、小车皮带，识读系统以及通讯系统等部分组成。小车首尾相连在轨道中连接并行进组成主线，主线与小车上的皮带机呈交叉状，所以被称为交叉带分拣机。

The Cross Belt Sorter (RKSORT-CBS) provides a reliable solution for efficiently sorting packages, cartons, and other items of different sizes. The racetrack sorting machine consists of a track, a trolley, a trolley belt, a reading system, and a communication system. The small car is connected and travels in the track, forming the main line. The main line intersects with the belt conveyor on the small car, so it is called a Cross Belt Sorter.



工作时，被分拣物品可用人工或自动上包的方式置于小车皮带上，当小车行进到目的地分拣位置时，控制系统发出信号并驱动皮带，完成物品分拣送出的任务。

During work, the sorted items can be manually or automatically placed on the conveyor belt of the cart. When the cart moves to the destination sorting position, the control system sends a signal and drives the conveyor belt to complete the task of sorting and sending out the items.

交叉带分拣机根据布置的方式不同分为环形交叉带和直线交叉带，其中环形交叉带为平面环形布局，主线速度可达 2 米每秒，分拣效率 22000 件 / 小时；直线交叉带为直线布局，主线速度可达 1.5 米每秒，分拣效率 8000 件 / 小时。

The Cross Belt Sorter are divided into circular and straight cross belts according to their layout. The circular cross belt is a flat circular layout, with a main line speed of up to 2 meters per second and a sorting efficiency of 22000 pieces per hour; The straight cross belt is arranged in a straight line, with a main line speed of up to 1.5 meters per second and a sorting efficiency of 8000 pieces per hour.

交叉带分拣机广泛应用于快递、电商、服装、食品、化妆品、机场、医药等要求分拣效率高、分拣路向多、场地空间要求严格的各型分拣场地。

The Cross Belt Sorter are widely used in various types of sorting sites, such as express delivery, e-commerce, clothing, food, cosmetics, airports, pharmaceuticals, etc., which require high sorting efficiency, multiple sorting routes, and strict space requirements.

Equipment Characteristics

设备特点

>>>> • 成熟可靠

Mature and reliable

交叉带分拣系统特别适用于中小型包裹的分拣，其称重范围及包裹体积范围可满足目前大多数的快递电商包裹类型，分拣格口多、灵活性强。交叉带的设备性能稳定，在国内外物流分拣场景中应用广泛，技术方案成熟。

The racerback sorting system is particularly suitable for sorting small and medium-sized packages. Its weighing range and package volume range can meet the needs of most types of express e-commerce packages, with multiple sorting grids and strong flexibility.

The racerback equipment has stable performance and is widely used in logistics sorting scenarios both domestically and internationally, with mature technical solutions.

>>>> • 适用性强

Strong applicability

交叉带分拣机系统稳定、具有较高的的处理能力，因此实际应用非常广泛。交叉带分拣机可以处理纸箱、信封、包裹、服装，也可以分拣塑料薄膜包装的产品、图书、音像制品等。设备规格可根据不同场地的需求进行定制化设计，分拣格口可根据货物尺寸来定制不同长度和宽度（如600mm/700mm/750mm/1000mm等）。小车轨道模块化组装，可灵活适配不同大小，规格的各种场地的作业要求，格口数量也可灵活拼装，满足用户的个性化要求。

The racerback sorting machine system is stable and has high processing capacity, so it is widely used in practical applications. The racerback sorting machine can handle cardboard boxes, envelopes, packages, clothing, as well as plastic film packaged products, books, audiovisual products, etc. The equipment specifications can be customized according to the needs of different sites, and the sorting ports can be customized with different lengths and widths according to the size of the goods (such as 600mm/700mm/750mm/1000mm, etc.). The modular assembly of the car track can flexibly adapt to the operational requirements of different sizes and specifications of various venues, and the number of grid openings can also be flexibly assembled to meet the personalized requirements of users.

>>>> • 上件操作简单

Easy operation of the previous piece

根据用户不同的使用流程和要求，交叉带分拣机可选择人工操作上件，也可配置自动供件台实现自动扫描、称重、上件等操作流程。经过简单培训的工人就可快速上岗。

According to the different usage processes and requirements of users, the cross belt sorting machine can choose to manually operate the loading process, or can be configured with an automatic feeder to achieve automatic scanning, weighing, loading and other operational processes. Workers who have undergone simple training can quickly start working.

»»»» • 模块化方案 Modular solution

交叉带分拣机得益于标准化的组成结构、轻量化的整体造型，设备从生产、运输、组装、调试使用的过程效率极高，可快速满足客户的快速反应需求。同时，模块化的方案可提高设备维护保养等工作的效率，提高设备的使用率。

The Cross Belt Sorter benefits from its standardized composition structure and lightweight overall design. The equipment has extremely high efficiency in the process of production, transportation, assembly, and commissioning, which can quickly meet the customer's rapid response needs. At the same time, modular solutions can improve the efficiency of equipment maintenance and increase the utilization rate of equipment.

»»»» • 节省运营成本 Save operating costs

交叉带分拣效率高，可极大程度缓解操作工作量上涨带来的分拣效率的压力，优化人力资源的配置，节约企业的人力成本和管理成本，促进企业的快速发展。

The Cross Belt Sorter has high efficiency, which can greatly alleviate the pressure of increased operational workload on sorting efficiency, optimize the allocation of human resources, save labor and management costs for enterprises, and promote rapid development of enterprises.

设备名称 Device Name	环形交叉带分拣机	直线交叉带分拣机
型号 Model	RKSORT-CBS600C	RKSORT-CBS500L
分拣物品 Sorting items	各种包裹、纸箱、服装、图书等	
小车节距 Car pitch	600mm	500mm
分拣准确率 Sorting accuracy	99.99%	
运行噪音 Operating noise	≤72dB (A)	
供包方式 Supply method	人工导入 / 供包台自动导入	
分拣货物尺寸 Sorted cargo size	MAX:700*600*500mm MIN:150*150*8mm	
扫描方式 Scanning method	顶扫 / 三相五面扫 / 六面扫	
分拣货物重量 Sorted cargo weight	0.03kg≤M≤20kg	0.1kg≤M≤30kg
运行速度 Running speed	2.0m/s	1.5m/s
分拣效率 Sorting efficiency	22000p/h	8000p/h

Product Application

产品应用 >>>>

1

交叉带分拣机大量应用于邮政快递企业区域的直营中心、中转场以及一些大中型网点。这些场地的特点是自身的分拣需求量大，对自动分拣设备的处理量要求高。

近年以来，随着中小型网点的分拣量增加，人力成本越来越高，交叉带分拣设备凭着其独特的优势也越来越受欢迎。尤其是直线型交叉带，凭借其占地面积小，布置灵活的特点有着广泛的应用。

The Cross Belt Sorter are widely used in direct operation centers, transfer centers, and some large and medium-sized branches in postal and express delivery enterprise areas. The characteristic of these venues is that they have a high demand for sorting and require high processing capacity from automatic sorting equipment.

In recent years, with the increasing sorting volume of small and medium-sized outlets, labor costs have become increasingly high, and cross belt sorting equipment has become increasingly popular due to its unique advantages. Especially for linear intersections, they have a wide range of applications due to their small footprint and flexible layout.



2

随着电商的需求大增，各大购物节活动节点包裹数量更是成倍增长，交叉带分拣机的高效率分拣满足各大市场和行业的需求，其应用的领域有烟草、服装、母婴产品、商超、医药等行业。

With the increasing demand for e-commerce, the number of packages at major shopping festival events has doubled. The efficient sorting of Cross Belt Sorter meets the needs of various markets and industries, and their application fields include tobacco, clothing, maternal and child products, supermarkets, pharmaceuticals, and other industries.



Product Advantages

产品优势 >>>>

• 视觉巡检技术 >>>>

Visual inspection technology



锐尔凯交叉带分拣机可根据用户需要配置智能视觉巡检功能，对所有在工作中的小车进行实时跟踪故障巡检，对有问题的小车系统会主动隔离不再循环上包，并进行及时封锁和告知用户，以免造成上包冲突或再次下包失败（该功能须配置自动供包台）。

The Realkey Cross Belt Sorter can be configured with intelligent visual inspection function according to user needs, which can track and inspect all working cars in real time for faults. The system will actively isolate problematic cars and no longer cycle to load packages. It will also block and inform users in a timely manner to avoid conflicting loading or failure to load packages again (this function needs to be equipped with an automatic package supply platform).

• 双车联动技术 >>>>

Dual vehicle linkage technology



锐尔凯智能识别技术及程序算法，实现了小包一车运载、大包双车同时运载并分拣入格口中的应用，帮助用户在不降低分拣效率及成本的前提下，能适应长至 1.2 米包件的分拣，大大拓展了设备应用范围。

Realkey intelligent recognition technology and program algorithms have achieved the application of small packages being transported in one vehicle and large packages being simultaneously transported and sorted into the grid, helping users adapt to sorting packages as long as 1.2 meters

• 故障小车检修自动入维修工位 >>>>

Automatic entry into maintenance station for repairing faulty cars



当用户需要对某台小车进行检修时可以通过操作界面启动某部小车的检修指令，该小车会自动运行到固定的专用检修工位，而不是人工去寻找该小车，提高了设备的维护效率。

When users need to perform maintenance on a certain car, they can activate the maintenance command for the car through the operation interface. The car will automatically run to a fixed dedicated maintenance station instead of manually searching for the car, which improves the maintenance efficiency of the equipment.

• 可靠性 >>>>

Reliability



锐尔凯在物流运输和自动分拣领域拥有 17 年的经验，在帮助客户制定分拣解决方案方面具有独特的优势，产品以扎实耐用而著称。我们是您可以信赖的合作伙伴。

Realkey has 17 years of experience in logistics conveying and automatic sorting, and has a unique advantage in helping customers develop sorting solutions. Its products are known for their solid and durable nature. We are your trusted partner.

About Realkey

关于锐尔凯 >>>>>

青岛锐尔凯机械有限公司专业从事自动化输送与分拣设备的研发与制造。

Qingdao Realkey Machinery Co., Ltd. specializes in the research and manufacturing of automated conveying and sorting equipment.

公司成立于 2007 年，坐落于青岛市莱西姜山镇昌平路 111 号，占地面积超过 20000 平方米，厂房面积 12000 平方米。公司通过了 ISO9001 质量管理体系认证、ISO14001 环境管理体系认证、知识产权管理体系认证，获得国家“高新技术企业”、青岛市“专精特新”企业、青岛市“科技型中小企业”、“青岛市小型快递包裹智能分拣技术创新中心”等称号。公司已成功申报并获得自主研发的发明与实用新型专利 20 余项。

Realkey was established in 2007 and located at 111 Changping Road, Jiangshan Town, Laixi, Qingdao. It covers an area of over 20000 square meters and has a factory area of 12000 square meters. The company has passed ISO9001 quality management system certification, ISO14001 environmental management system certification, and intellectual property management system certification, and has been awarded titles such as National "High tech Enterprise", Qingdao "Specialized, Refined, Unique and New" Enterprise, Qingdao "Science and Technology oriented Small and Medium sized Enterprise", and "Jidao Small Express Parcel Intelligent Sorting Technology Innovation Center". The company has successfully applied for and obtained more than 20 independently developed invention and utility model patents.

锐尔凯秉持优质、高效、服务、创新的企业精神，致力于高品质、低成本、短交期的实现，为物流企业与制造业工厂提供优质、高效、稳定的物流系统解决方案。

Realkey upholds the corporate spirit of quality, efficiency, service, and innovation, committed to achieving high quality, low cost, and short delivery time, providing high-quality, efficient, and stable logistics system solutions for logistics enterprises and manufacturing factories.

17 年

17 年研发生产经验

12000 平方

拥有 12000 m² 生产车间

50 名

50 名研发人员

200+

200 多个自动分拣项目案例



Partner and Honorary Certificates

合作伙伴及荣誉证书 >>>>



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