

# 公司实力

Company Strength

深圳市天和双力物流自动化设备有限公司(简称“天和双力”)创建于1993年,是一家行业领先的协同智造与物流装备系统集成商,灯塔工厂践行者。经过30年的发展,公司已成为大型高新技术企业,现有产品线涵盖智能存储系统、分拣系统、输送系统、装卸系统、机器人应用及专用设备、工业软件等六大产品系列。目前,天和双力市场已遍布全球五大洲,客户行业覆盖30+,品牌在业内具有广泛的知名度和影响力,已成为生产智造、流通配送和公共服务领域优选供应商。

Founded in 1993, Tianwo Shuangli (referred to as TWSL) is an industry-leading collaborative intelligent manufacturing and logistics equipment system integrator, as well as a practitioner of Lighthouse Factories. After 30 years of development, Tianwo Shuangli has become a large-scale high-tech enterprise. The company's core product lines covers six major series, including intelligent storage systems, sorting systems, conveying systems, loading and unloading systems, robot applications, special equipment and industrial software. At present, TWSL's market has spread all over the five continents of the world, and the customer industry covers 30+. It has become a preferred supplier in the fields of intelligent manufacturing, logistics distribution and public services.

100+ | 行业资深工程师  
Industry Senior Engineer

50+ | 智慧物流系统工程项目经理  
Intelligent Logistics System Engineering  
Project Managers

500+ | 物流装备技术服务人员  
Logistics Equipment Technical  
Service Personnel

一家设计研究院  
One Design and Research Institute

三家子公司  
Three Subsidiaries

三个制造基地  
Three Manufacturing Bases



集团总部 · 深圳罗湖  
Group Headquarter:  
Shenzhen Luohu



综合物流装备制造基地 · 深圳光明  
Comprehensive Logistics Equipment Manufacturing Base:  
Shenzhen Guangming



智慧物流装备制造基地 (东莞产业园)  
Intelligent Logistics Equipment Manufacturing Base:  
Guangdong Dongguan



新产品试制研发中心 (研发产业园)  
New Product Trial Production R&D Center:  
Shenzhen Guangming

专注智慧物流系统30年  
30 Years of Experience in Automatic Logistics

30年

智慧物流系统集成项目成功交付  
Over 4000 Intelligent Logistics System Integration Projects

4000+

产品覆盖五大洲  
行业覆盖30+  
Markets Covering Five  
Continents Around the World and Over 30 Industries

30+

分拣机、伸缩机、输送机、机器人等  
智慧物流装备成功交付  
Delivering Over 350 Thousand Intelligent Logistics Equipment,  
Such as Sorter, Telescopic Conveyor Equipment, Conveyor and Robot

35w+



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Version: TWSL-202310



## 高速摆轮分拣系统

### High Speed Balance Wheel Sorting System





## 产品介绍

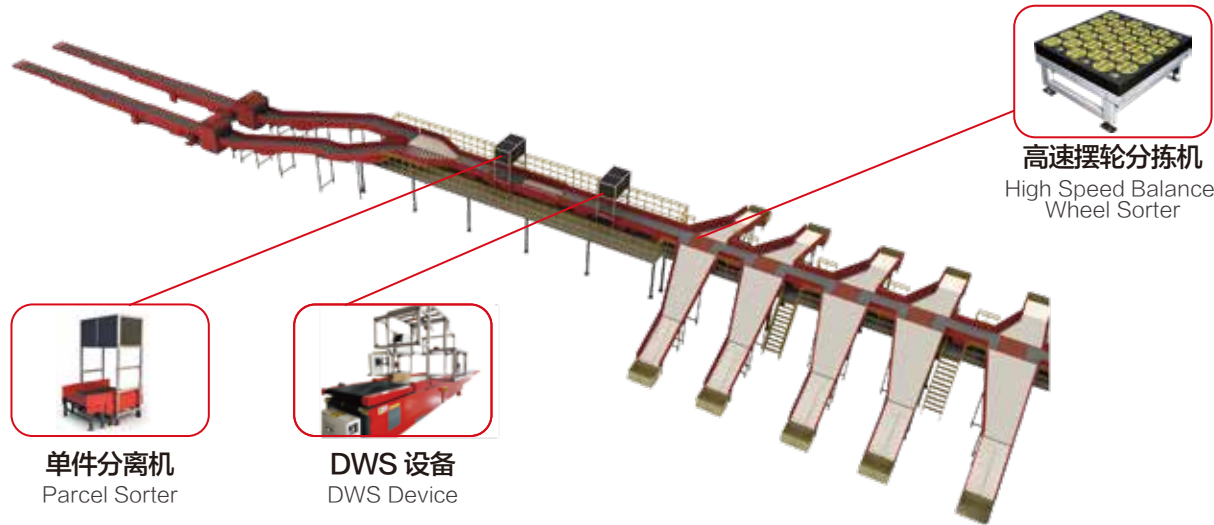
### Product Introduction

高速摆轮分拣系统主要由高速摆轮分拣机、单件分离机、水平输送机、RFID / DWS 设备组成，实现对纸箱、包裹、周转箱、编织袋等不同类别输送物的输送分离及转向分拣，分拣高效准确，主要应用于快递、电商、食品饮料、生鲜冷链、3C 电子等行业的分拣场景。

The high-speed balance wheel sorting system is mainly composed of a high-speed balance wheel sorter, a parcel sorter, a horizontal conveyor, and RFID / DWS equipment. It can realize the transportation and separation of different types of conveyed objects such as cartons, parcels, turnover boxes, and woven bags efficiently and accurately. It is mainly used in sorting scenarios in express delivery, e-commerce, food and beverage, fresh cold chain, 3C electronics and other industries.

## 性能特点

### Performance Characteristics



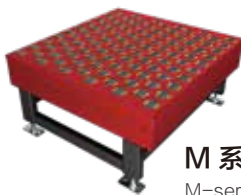
- ▲ 分拣效率高，可双向分拣，分拣效率达 10000 件 / 小时。  
High sorting efficiency, reaching 10,000 pieces/hour. Being able to sort in two directions.
- ▲ 负载范围大，可承载输送物重量范围为  $0.1\text{kg} \leq W \leq 100\text{kg}$ 。  
Large load range, with weight range  $0.1\text{kg} \leq W \leq 100\text{kg}$ .
- ▲ 应用场景广，适用多个行业，可分拣所有标准包装物品。  
With a wide range of application scenarios, it can be used in multiple industries, and can sort all standard packaging items.
- ▲ 定位精度高，采用伺服控制，分拣动作柔性，可控精度高。  
High positioning accuracy, servo control, flexible sorting action, high controllable accuracy.
- ▲ 快速易维护，功能模块化设计，可对零部件快速更换及维护。  
Fast and easy maintenance, functional modular design, quick replacement and maintenance of parts.
- ▲ 智能控制系统，自带内部逻辑控制，通过 PROFINET 总线与总控系统完美适配。  
Intelligent control system with internal logic control. Being perfectly adapted to the master control system through the PROFINET bus.

## 核心产品及技术参数

### Core Products and Technical Parameters

#### 高速摆轮分拣机 / High Speed Balance Wheel Sorter

##### 系列分类 / Series classification



**M 系列高速摆轮分拣机**  
M-series High Speed Balance Wheel Sorter



**S 系列摆轮机分拣机**  
S-series High Speed Balance Wheel Sorter



**中物联 2021 年度“物流技术创新奖”产品**  
Products of the "Logistics Technology Innovation Award" of China IoT in 2021

##### 技术参数 / Technical Parameter

序号 No.	设备规格(mm) Equipment Specifications(mm)		输送物尺寸(mm) Parcel Size(mm)				分拣效率(件/小时) Sorting Efficiency(pieces/hour)		额定功率(KW) Rated Power(KW)		最大负载(kg/m²) Maximum Load(kg/m²)	最小件重量(kg) Minimum Piece Weight(kg)
	L	W	Lmax	Wmax	Lmin	Wmin	4K机型单机效率 4K Model Single efficiency	6K 机型单机效率 6K Model Single efficiency	4K机型 4K Model	6K机型 6K Model		
1	850	860	600	500	150	150	≥6000	≥10000	1.3	2	60	0.2
2	1050	1060	800	700	150	150	≥6000	≥10000	1.7	2.6	60	0.2
3	1000	1260	1000	900	150	150	≥6000	≥10000	2.6	4.7	60	0.2
4	1400	1460	1200	1000	150	150	≥6000	≥10000	4	6.2	60	0.2

##### 产品定制 / Product customization

低温版：采用耐低温的电气元器件，可用于冷库等寒冷场地，能耐 -30 度。  
Low temperature version: Using low-temperature resistant electrical components, it can be used in cold areas such as cold storage, and can withstand -30 degrees Celsius.

四向版：支持四向分拣，可设置多个分拣格口。  
Four way version: supports four way sorting and can set up multiple sorting slots.

#### 单件分离机 / Parcel Sorter

序号 No.	设备规格(mm) Equipment Specifications(mm)		输送物尺寸(mm) Parcel Size(mm)				分拣效率(件/小时) Sorting Efficiency(pieces/hour)		额定功率(KW) Rated Power(KW)		最大负载(kg/m²) Maximum Load(kg/m²)	最小件重量(kg) Minimum Piece Weight(kg)
	L	W	Lmax	Wmax	Lmin	Wmin	4K机型单机效率 4K Model Single efficiency	6K 机型单机效率 6K Model Single efficiency	4K机型 4K Model	6K机型 6K Model		
1	6000	1630	1000	700	150	150	≥4000	≥6000	15	20	60	0.3
2	6000	1830	1000	700	150	150	≥4000	≥6000	15	20	60	0.3

#### DWS( 量方称重扫码一体机 ) 设备 / DWS(Dimension Weight Scanning) Device

序号 No.	设备规格(mm) Equipment Specifications(mm)		输送物尺寸(mm) Parcel Size(mm)				识别效率(件/小时) Identification Efficiency(pieces/hour)	额定功率(KW) Rated Power(KW)	最大负载(kg/m²) Maximum Load(kg/m²)	最小件重量(kg) Minimum Piece Weight(kg)
	L	W	Lmax	Wmax	Lmin	Wmin	DWS 单机效率 DWS Single efficiency	DWS		
标准规格 Standard Specifications	1400	1000	1000	700	150	150	≥6000	1	60	0.3



**单件分离机**  
Parcel Sorter



**DWS 设备**  
DWS Device

## 应用案例

### Application Cases

不断追求物流的科学合理化，为广大客户提供满足特殊业务与定制化需求的物流系统解决方案。

Constantly pursue the scientific rationalization of logistics, and provide customers with logistics system solutions that meet special cases and customized needs.



某速递项目 / A Cold Chain Project

顺丰速运、嘉里物流、DHL、菜鸟物流、中国邮政、极兔速递、韵达快递、德邦快递、跨越物流。

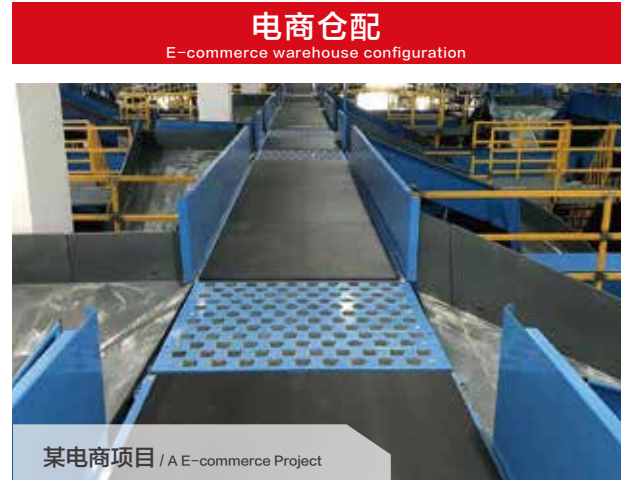
SF Express, Kerry Logistics, DHL, Cainiao Logistics, China Post, J&T Express, Yunda Express, Deppon Express, Kuayue-Express.



某冷链项目 / A Cold Chain Project

顺丰冷运、沃尔玛、太平洋恩利、天虹商场、华润万家、华都集团。

SF Cold Chain, Wal-Mart, Pacific Andes, Rainbow Shopping Mall, Vanguard, Huadu Group.



某电商项目 / A E-commerce Project

京东、唯品会、苏宁、越海国际（小米仓）、华润医药商业、国药物流、大参林、世通国际、通商急便。

JD, Vipshop, Suning, Yuehai International (Xiaomicang), China Resources Pharmaceutical Commercial, Sinopharm Logistics, Da Canlin, Shitong International Express, Tusho Express.



某食品项目 / A Food Project

百事可乐、可口可乐、统一饮料、汇源果汁、加多宝、天地壹号、星巴克、嘉里粮油、奥桑味精、玛氏食品、双汇集团、海天味业、嘉顿食品。

Pepsi Cola, Coca Cola, Beijing Uni-President Food, Huiyuan Juice, Jiaduo-bao, Tiandi No.1, Starbucks, Kerry Grain and Oil, Orsan Monosodium Glutamate, Mars Food, Shuanghui Group, Foshan Haitian Flavouring&Food, Jiadun Food.