



## SORTING CREATES VALUE

### HEFEI SORTDEK VISION TECHNOLOGY CO., LTD.

Hefei Sortdek Vision Technology Co., Ltd. is located in Hefei, Anhui Province, a famous lake city and innovation highland. The technical team is from the elite of Chinese University of Science and Technology, Chinese Academy of Sciences and other industries with many years of work experience in the field of optoelectronic detection. Sortdek has a number of industry experts such as special allowances of the State Council and subject leaders, which has built a number of optical and visual detection

technology research and development platforms. At the same time, Sortdek is committed to the future technology research and development and product services in the fields of artificial intelligence, high-end intelligent sorting equipment, food detection, etc. Developing intelligent equipment suitable for modern production, implanting Internet cloud technology, making products more digital and intelligent, easy to seamlessly dock with modern production lines, and covering the fields of rice, grains, tea and

industry products like fasteners, magnetic tile, sealing ring and other industrial fields. Sortdek adheres to customer-centered, providing customers with a full range of digital solutions and high cost-effective visual detection system, maximizing the core competitiveness and commercial value of products for each enterprise. Sortdek is always in response to made-in-China 2025 and to achieve industrial cooperation and win-win situation.



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# OPTICAL SORTING AND VISION INSPECTION



# GRAIN AND FOOD OPTICAL SORTER

## 01-Key Components

- 15" LCD Touch Panel
- True Color Camera
- HD CCD Sensor
- Stainless Steel Ejector
- SMC™ Pneumatic System

## 02-Sorting Solutions

- Sniper Targeted Sorting
- Rgb+shape Sorting
- InGaAs Infrared Sorting

## 03-Service Life

- Ejector > 10 Billion Times
- Led > 50,000 Hours
- Power Supply > 50,000 Hours

## 04-Intelligent System

- Smart Sorting Mode
- Remote Control
- Auto Self-Diagnosis
- Program Backup

### > SUPER BRAIN INTELLIGENT RECOGNITION MULTI-CORE PARALLEL IMAGE PROCESSING SYSTEM

Ultra-brain intelligent recognition, combined with image recognition machine learning algorithm, improve optical error and realize color-selective adaptive operation

### > ELIMINATE A VARIETY OF IMPURITIES CASE

AI machine self-learning OS gives more sorting possibilities

### > SHAPE SORTING WITH INTELLIGENT GRADING TECHNOLOGY

Complete — Half Broken — Fine Broken

## PRODUCT PARAMETERS

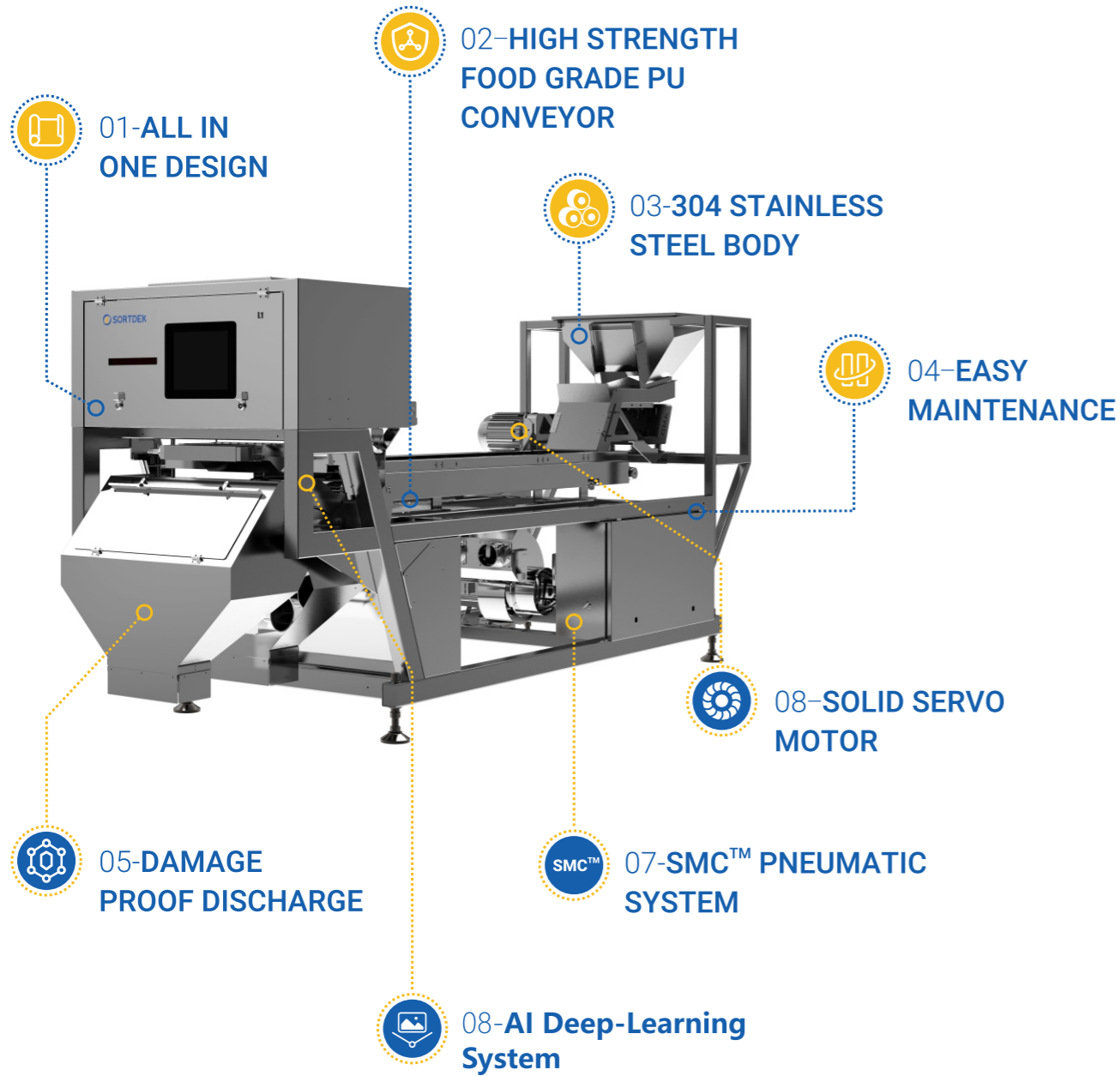
Model	Channel No.	Throughput (T/H)	Power (KW)	Air pressure (Mpa)	Air consumption (m³/min)	Weight(kg)	Dimension(mm)
A1	64	0.5-1.5	0.5-0.8	0.6-0.8	<1	270	875*1550*1320
A2	128	1-3	0.65-1.1	0.6-0.8	<1.8	460	1240*1710*1720
A3	192	1.5-4	0.85-1.4	0.6-0.8	<2.5	650	1555*1710*1720
A4	256	2-6	1-1.8	0.6-0.8	<3.0	840	1870*1710*1720
A5	320	2.5-8	1.3-2.2	0.6-0.8	<3.5	1030	2185*1710*1720
A6	384	3-9	1.7-2.8	0.6-0.8	<4.0	1220	2500*1710*1720
A7	448	3.5-10	1.9-3.2	0.6-0.8	<5.0	1350	2815*1710*1720
A8	512	4-12	2.2-3.7	0.6-0.8	<6.0	1510	3130*1710*1740
A10	576	4.5-16	2.5-4.2	0.6-0.8	<7.0	1850	3760*1710*1740
A12	640	5-18	2.8-4.8	0.6-0.8	<8.0	2190	3935*1710*1740

- 01 Black Beans
- 02 Chickpeas
- 03 Coffee Beans
- 04 Lentil
- 05 Maize
- 06 Mung Beans
- 07 Peanuts
- 08 Pine Nuts



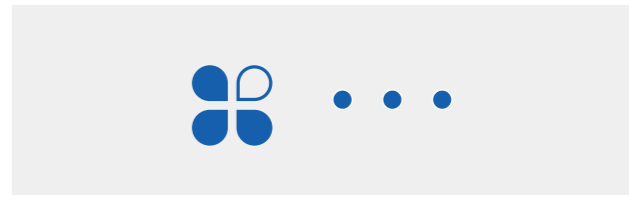
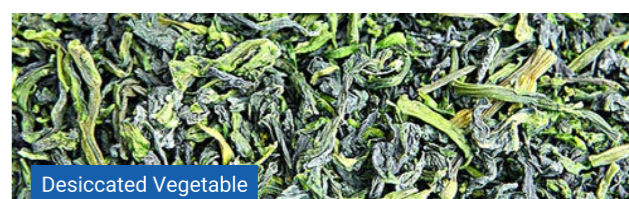
- 09 Quinoa
- 10 Raisin
- 11 Red Bean
- 12 Rice
- 13 Sesame
- 14 Sunflower Seeds
- 15 Wheat
- 16 White Kidney Beans

# BELT-TYPE OPTICAL SORTER



## PRODUCT PARAMETERS

Model	Ejector No.	Power(KW)	Air pressure (Mpa)	Air consumption (m³/min)	Weight(kg)	Dimension(mm)
L1	64	2.9	0.6-0.8	<1.0	780	3266*1025*1562
L2	128	3.4	0.6-0.8	<1.8	1000	3266*1326*1562
L4	256	4.4	0.6-0.8	<3.5	1400	3266*1928*1562
L6	384	5.4	0.6-0.8	<5.0	2020	3266*2530*1562
DL4	512	5.5	0.6-0.8	<6.0	2000	3266*1955*2265

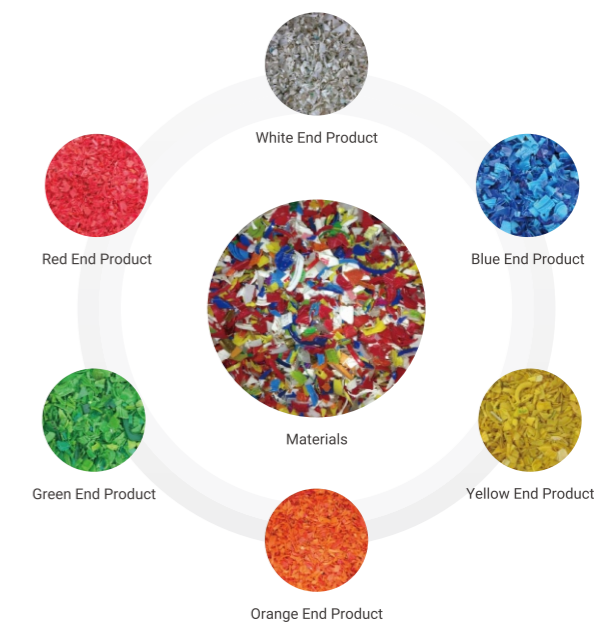
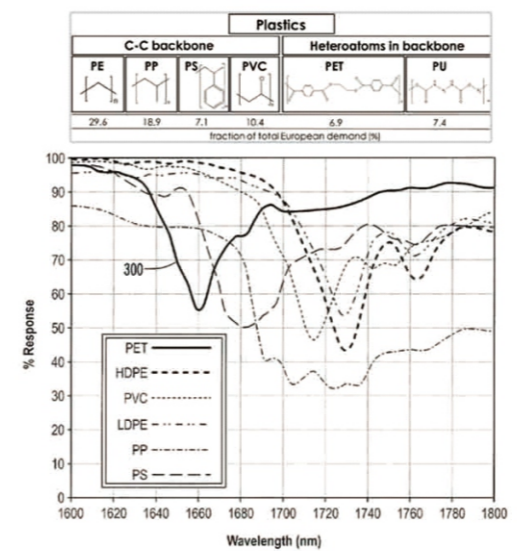


# COLOR + InGaAs PLASTIC SORTER



## PRODUCT PARAMETERS

Model	Ejector No.	Power(KW)	Air pressure (Mpa)	Air consumption (m³/min)	Weight(kg)	Dimension(mm)
PM3	192	3	0.6-0.8	<2.0	940	2612*1741*2108
PM5	320	4	0.6-0.8	<3.0	1330	3252*1741*2108
PM7	448	5	0.6-0.8	<5.0	1650	3892*1741*2108



## — ORE COLOR SORTER M SERIES



CHUTE TYPE ORE POWDER SORTER

- RESORTING SOLUTION ENSURE HIGH ACCURACY AND LOW CARRYOVER
- HIGH DENSITY ALLOY MATERIAL CHUTES REDUCE ABRASION
- DUST RESISTANCE
- FLOATING DESIGN WIPER
- HIGHEST INDUSTRIAL CONFIGURATION OF 4 NOS CAMERAS AND 128 NOS EJECTORS EQUIPPED WITH EACH CHUTE
- SMC™ PNEUMATIC SYSTEM

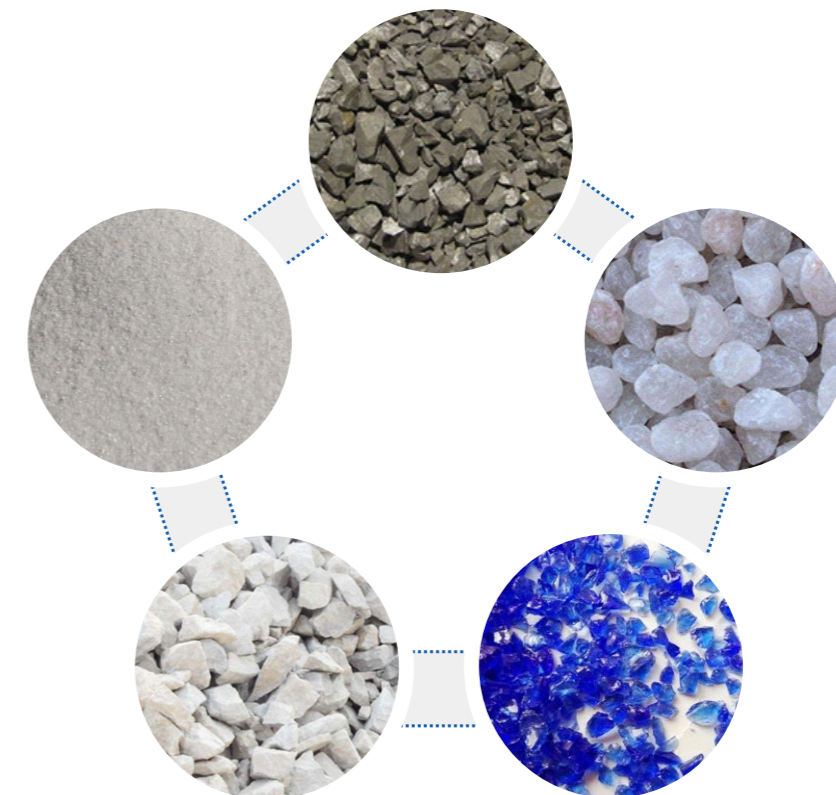


BELT TYPE ORE SORTER

- ALL IN ONE DESIGN
- HIGH QUALITY THICK CONVEYOR
- LARGER VOLUME EJECTOR
- SMC™ PNEUMATIC SYSTEM
- AJUSTABLE SPPED OF SERVO MOTOR

### PRODUCT PARAMETERS

Model	Layer No.	Ejector No.	Throughput(T/H)		Power(KW)	Air pressure (Mpa)	Air consumption (m³/min)	Weight(kg)	Dimension(mm)
LKD4	1	320	1-4cm	8-12	2.8	0.6-0.8	4	1650	2977*2883*1734
			4-8mesh	4-8					
			8-16mesh	3-6					
LKS4	2	640	1-5cm	8-12	4.4	0.6-0.8	5.6	3200	3562*2883*2734
			4-8mesh	4-8					
			8-16mesh	3-6					
MP4	2	512	26-40mesh	3-5	5	0.4-0.6	2.8	2400	2336*2233*2511
			40-70mesh	2-4					
			70-120mesh	1-2					



BASED ON OVER 20 YEARS R&D AND PRODUCTION EXPERIENCE, SORTDEK AIMS TO OFFER GLOBAL CUSTOMERS THE UNIQUE SORTING SOLUTIONS.

**Innovation**



**01-University Cooperation**

Cooperation with USTC and CAS for Optical Science research and education



**02-R&D Investment**

Around 30% of annual revenue invested in R&D Center



**03-R&D Team**

Engineers and Specialists  
50% of Employees work in R&D Center  
20 years R&D experience



**04-Innovation Trend**

Vision Inspection  
Multi-Spectrum Technology  
Laser Sorting Technology

**Core Technologies**



**RGB Camera**

High-end CDD cameras



**Multi-Spectrum**

InGaAs and Laser Technologies



**AI Algorithm**

Advanced sorting algorithm



**IPS and OS**

Windows and Linux OS



**4G-5G IoT**

Remote and wireless control



**Customization**

Modular customized design

**Applications**

7 categories: Nuts, Grain, Pulses, Seeds, Tea, Plastic and Mineral.  
Over 200 kinds of product...

**Group Solutions**

Integrated Product R&D Team  
Customized Optical Sorting & Vision Inspection Solutions

**Customized Products Line**



**01-Outward Appearance**



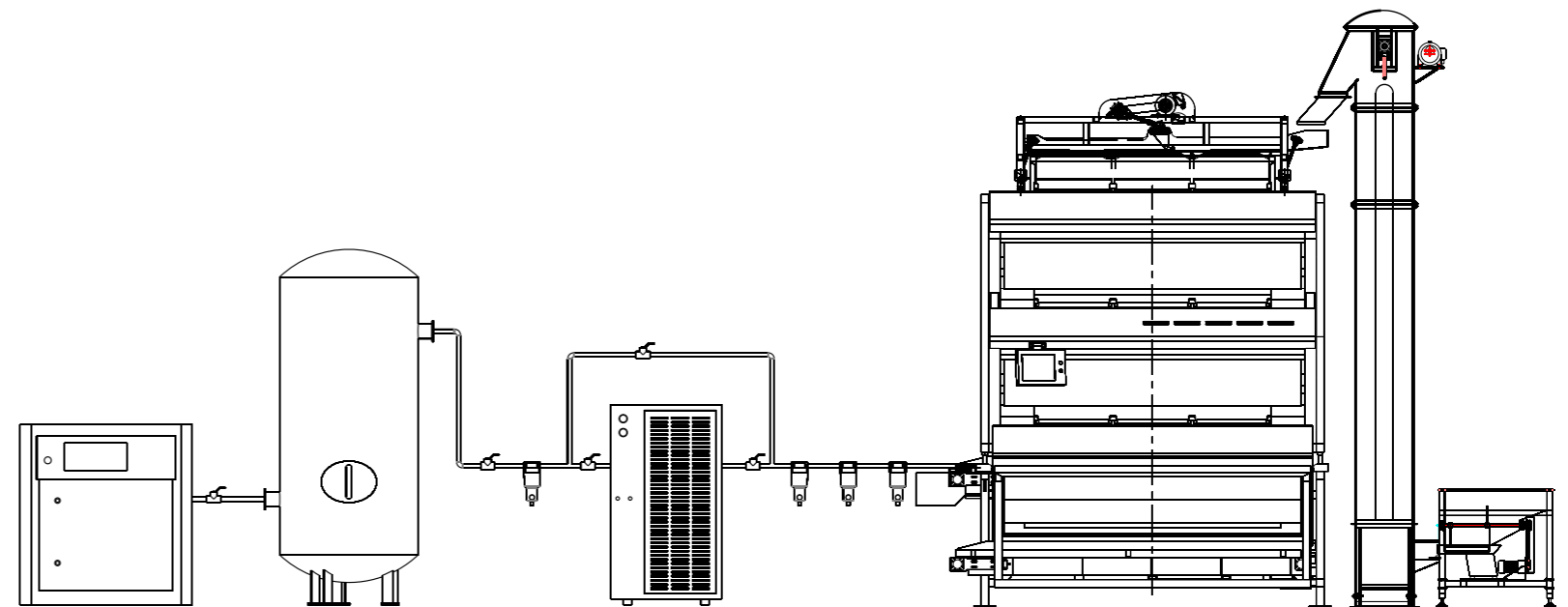
**03-Configuration**



**02-Mechanical Structure**



**04-Personalized Needs**



**Plant-1**

No.43 Yulan Avenue, Hefei, Anhui, China  
100,000 m<sup>2</sup>  
5000 sets annual productivity(2019)  
550 Employees

**Plant-2**

No. 123 Ziyun Road, Hefei, Anhui, China  
460,000 m<sup>2</sup>  
2000 sets annual productivity(2019)  
Increasing to 10,000 sets by 2022  
700 Employees