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## ANYSORT

# Nut/Kernel/Seed Cloud Quality Sorting Solutions

AI QUALITY SORTING SOLUTIONS

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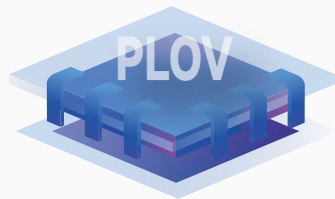Address：No.6 Xiaocheng Road of New Station Industrial District, Hefei

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# Everything is Sortable under **AI** Cloud Quality Sorting

## 6
## Core Technologies

### PLOV Platform 2.0

Ensure that the materials in the channel are evenly laid without stacking during high-speed falling of sorted materials.

### AI Quality Sorting Large Model

AI large model in sorting industry and super computing power platform
Intelligent dynamic adaptive sorting of materials
Artificial intelligence leaps from image recognition to understanding and judgment levels.
Building a qualitative universe where 「everything can be sorted」.

**AI large model of sorting industry is a leap from artificial intelligence**

### Hawkeye Camera Technology 3.0

Bionic hawkeye recognition technology 3.0
High speed dynamic recognition

### MPF Multi-pixel Fusion Technology

VISIBLE    NIR    SWIR

Based on the characteristics of infrared spectra of different substances, different substances are essentially distinguished.

### Independent Environmental Purification Technology

Independent environmental purification technology ensures that the sorting accuracy is not affected by factors such as dust during the production and processing.

### Intelligent Control System

Closed loop control system for production line, efficient linkage
Leading the era of unmanned 3.0 intelligent factories

# AI Cloud Quality Sorting Solutions

It is comprehensively applied in the sorting scenarios of peanut kernel, peanut with shell, fried peanut kernel, melon seed, sunflower seed kernel, almond, pistachio, cashew nut, pecan, snakegourd seed, walnut, raisin, etc. The comprehensive application of AI quality sorting massive data model greatly improves the accuracy and efficiency of materials sorting. Customization of sorting standards can also be made according to different sorting needs to improve processing quality for customers.

| | | | |
|---|---|---|---|
| peanut kernel | peanut with shell | fried peanut kernel | sunflower seed |
| sunflower seed kernel | cucumber seed | pumpkin seed | pumpkin seed kernel |
| watermelon seed | snakegourd seed | gourd seed | raisin |

| | | | |
|---|---|---|---|
| almond with shell | walnut | pistachio | pine nut |
| pine nut kernel | cashew nut | pecan | macadamia nut |
| hazelnut | hazelnut kernel | almond with shell | almond |
| Chinese chestnut | Chinese torreya | walnut kernel | jujubae |

# TK

## Cloud Quality Sorting Product

## TK PRO Series

Open design by using stainless steel ensures higher standard food safety level.

PLOV physical structure platform technology achieves soft landing of materials, and in the scenario of fast speed belt sorting, materials fall gently with low breakage.

Supported by AI quality sorting large model, it accurately identifies subtle differences in color, shape, size, and material.

MPF multi pixel fusion technology ensures more accurate identification and removal of defects and foreign objects.

It fully achieves fine sorting of color, shape, and size to meet the customized product processing needs of factories.

## TKD Series

PLOV double-layer belt physical structure technology ensures material falling more gently with low breakage.

Hawkeye camera technology is being upgraded to 3.0, with the support of AI quality sorting large model, to achieve subtle differences identification in color, shape, size, and material, and to achieve fine sorting requirements such as color sorting, shape sorting, and material sorting.

### Product Parameters

| Model | Throughput (t/h) | Accuracy (%) | Carryover Ratio | Power (kw) | Power Supply (V/Hz) | Dimension (L*W*H mm) |
|---|---|---|---|---|---|---|
| TKD64 | 0.5-3 | ≥99.50 | > 30:1 | 4.6 | 380/50 | 4870*1940*2950 |
| TKD128 | 0.5-6 | ≥99.50 | > 30:1 | 6.2 | 380/50 | 4870*2260*2950 |
| TKD192 | 0.5-9 | ≥99.50 | > 30:1 | 8.3 | 380/50 | 4870*2580*2950 |
| TKD256 | 1.5-12 | ≥99.50 | > 30:1 | 9.1 | 380/50 | 4870*2900*2950 |
| TKD320 | 1.5-16 | ≥99.50 | > 30:1 | 11.2 | 380/50 | 4870*3220*2950 |
| TKD384 | 2.0-18 | ≥99.50 | > 30:1 | 11.6 | 380/50 | 4870*3540*2950 |

The specific parameters may vary depending on the environment, materials, and impurities.

# TK Series

Hawkeye camera technology accurately identifies subtle differences in color and shape of materials.

PLOV physical structure technology achieves efficient sorting and grading, higher output and high precision.

Based on quality sorting massive data model, it can effectively sort nut kernels, shells, as well as various foreign objects and color defects to improve consistency of product quality.

## Product Parameters

| Model | Throughput (t/h) | Accuracy (%) | Carryover Ratio | Power (kw) | Power Supply (V/Hz) | Dimension (L*W*H mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|
| TK64 | 0.5-2 | ≥99.50 | > 30:1 | 2.4 | 380/50 | 3650*1080*2450 | 510 |
| TK128 | 0.5-2 | ≥99.50 | > 30:1 | 2.7 | 380/50 | 3650*1400*2450 | 1120 |
| TK192 | 0.5-3 | ≥99.50 | > 30:1 | 4.0 | 380/50 | 3650*1720*2450 | 1390 |
| TK256 | 1.5-12 | ≥99.50 | > 30:1 | 4.3 | 380/50 | 3650*2040*2450 | 1730 |
| TK320 | 1.5-16 | ≥99.50 | > 30:1 | 5.3 | 380/50 | 3655*2380*2450 | 2050 |
| TK384 | 2.0-18 | ≥99.50 | > 30:1 | 5.8 | 380/50 | 3650*2680*2450 | 2350 |

The specific parameters may vary depending on the environment, materials, and impurities.
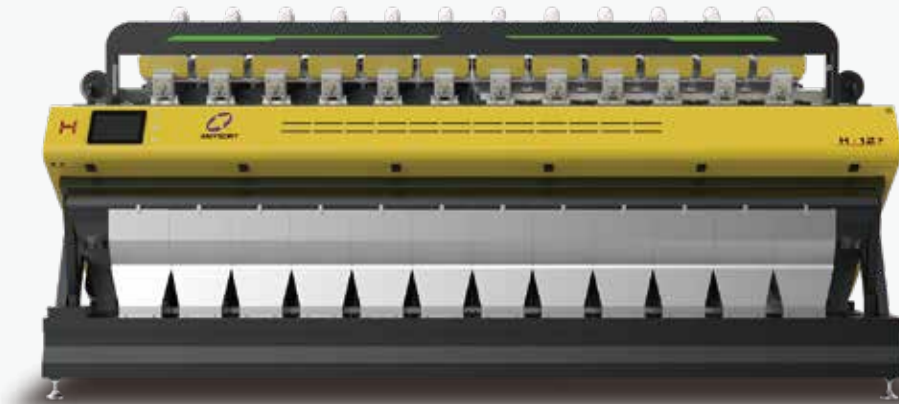
# H

## Cloud Quality Sorting Product

PLOV physical structure platform technology ensures even materials falling in high-yield production, with ultra-high sorting accuracy. One sorter equals two sorters.

Supported by AI quality sorting large model, it accurately identifies subtle differences in color, shape, size, and material of seeds, kernels and crushed kernels, etc.

MPF multi pixel fusion technology can accurately remove color defects, shape defects, size defects, and foreign objects.

## Product Parameters

| Model | Throughput (t/h) | Accuracy (%) | Carryover Ratio | Power (kw) | Power Supply (V/Hz) | Dimension (L*W*H mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|
| H-1 | 0.5-2 | ≥99.99 | > 30:1 | 1.0 | 220/50 | 1400*1727*2177 | 792 |
| H-2 | 0.5-3 | ≥99.99 | > 30:1 | 1.6 | 220/50 | 1400*1727*2177 | 885 |
| H-3 | 1.0-6 | ≥99.99 | > 30:1 | 2.1 | 220/50 | 2080*1727*2177 | 1180 |
| H-4 | 1.0-6 | ≥99.99 | > 30:1 | 2.7 | 220/50 | 2080*1727*2177 | 1270 |
| H-5 | 5.0-15 | ≥99.99 | > 30:1 | 3.2 | 220/50 | 2420*1727*2177 | 1470 |
| H-7 | 5.5-20 | ≥99.99 | > 30:1 | 4.6 | 220/50 | 3100*1727*2177 | 1850 |
| H-8 | 5.5-20 | ≥99.99 | > 30:1 | 5.2 | 220/50 | 3440*1727*2177 | 2050 |
| H-10 | 7-28 | ≥99.99 | > 30:1 | 6.4 | 220/50 | 4120*1727*2177 | 2410 |
| H-12 | 7-30 | ≥99.99 | > 30:1 | 7.6 | 220/50 | 4800*1727*2177 | 2800 |

The specific parameters may vary depending on the environment, materials, and impurities.

# AI X-ray Machine

## Cloud Quality Sorting Product

Relying on massive data model of AI quality sorting, it can achieve multi-dimensional detection of color, shape, size, density, material, etc., and effectively detect and remove internal defects in nuts such as worm eaten nuts, empty nuts, shrivelled nuts, oily nuts, moldy nuts, etc., and high-density impurities mixed in raw materials such as metals, stones, glass, ceramics, rubber, etc.

PLOV physical structure platform technology can synchronously achieve various detection needs such as external impurities and internal defects with high output and low loss.

### Let the whole world enjoy the best quality food.
—— Jiexun Vision

Founded in 1999, Jiexun Optoelectronic is a global leading provider of artificial intelligent sorting technology and equipment. With the concept of "quality sorting", Jiexun redefines color sorting and introduces third-generation artificial intelligent color sorters for rice, tea, cereal crops, ores, and other industries, leading the sorting industry towards a new era of intelligence. Jiexun quality sorting has mature applications in many sorting fields such as agriculture and industry, providing professional and reliable sorting solutions for more than 80 countries and regions.

## Product Parameters

| Model | Belt Speed (m/s) | X-ray Output (W) | Rejection Mode | Best Detection Accuracy | Power (V/Hz) | Dimension (mm) | Weight (Kg) |
|---|---|---|---|---|---|---|---|
| RX64 | 1.2-1.5m/s adjustable | 350W(max) 80KV/8mA | Blow to remove with 64 valves | Stainless Steel Ball≥φ0.3 Stainless Steel Line≥φ0.2X2 | 380/50 | 3950*1170*1930 | 650 |
| RX96 | 1.2-1.5m/s adjustable | 350W(max) 80KV/8mA | Blow to remove with 96 valves | Stainless Steel Ball≥φ0.3 Stainless Steel Line≥φ0.2X2 | 380/50 | 3950*1355*1930 | 950 |

The specific parameters may vary depending on the environment, materials, and impurities.

ANYSORT®

## The Global Leading Provider of Intelligent Sorting Technology and Equipment