# Suzhou Dream Vision

## Suzhou Dream Vision color sorter machine
### DCS series

**Material · color sorting of experts**

- The perfect combination of visible light and multi-band infrared provides a perfect solution for nut shell kernel separation and Malignant impurities sorting
- Double buffer soft landing system, no damage reception, with flexible reject, fully guarantee the integrity of nut
- Unique anti-running deviation belt design, without manual adjustment, more stable operation
- The new sealed chamber structure, waterproof, dust-proof, oil resistance, further ensure the sorting effect
- Engineering design, modular design, standardized production, the whole machine structure is highly stable and reliable

## Tree nut sorting

| Walnut | | | Almond | | |
|--------|--------|----------|--------|--------|----------|
| shell | kernel | discolor | shell | kernel | discolor |

| Hickory | | | Pistachio | | |
|---------|--------|----------|-------------|--------------|-------------|
| shell | kernel | discolor | black seeds | yellow defect | empty shell |

| Badam | | | | | |
|-------------|-----------------|-------|-------------|----------------|--------------|
| green shell | white mold spot | black | decrustation | insect damaged | size sorting |

| Pecan | | | | | |
|-------|-------|--------|----------|-------|------------|
| | shell | kernel | discolor | black | germinated |

| Pine nut | | | | | |
|----------|-------|-------|-------|--------------|----------------|
| | black | white | oiled | size sorting | unclean peeling |

| Malignant impurities | | | | | |
|----------------------|-------|-------|-------|----------|---------|
| | metal | stone | glass | ceramics | plastic |

# Suzhou Dream Vision

## ■ Core technology

### InGaAs composite infrared camera

Using InGaAs infrared band signal recognition technology, the difference in composition between nuts and impurities can be identified, easy to remove impurities of the same color from nuts

### 5G architecture

Reserve 5G interfaces, AR/R coordination, high bandwidth, low latency, and wide connectivity

### Solenoid valve drive system

The solenoid valve drive system uses a new type of high anti-wear material, high frequency low loss valve, flexible contact, fast response, no exhaust gas, low take-out
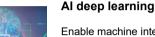
### Matrix valve

Using the original imported SMC or MATRIX high-quality injection valve, high reliability, good stability, long life

### Soft landing feed and discharge system

The material receiving part adopts a flexible design and uses food grade silicone curtains, greatly reducing product damage

### AI deep learning

Enable machine intelligence to learn and recognize complex impurities, meeting the changing sorting needs of customers

## ■ Parameter configuration

| Name | Model | Channel number | Layer | Voltage (V) | Power (Kw) | Machine dimension (L*W*H) mm) | Weight (kg) |
|---|---|---|---|---|---|---|---|
| DCS series | DCS-300S-S | 64 | Single layer | AC220V/50Hz | ≤3.0 | 3098*820*1660 | 525 |
| | DCS-600S-S | 128 | Single layer | AC220V/50Hz | ≤3.5 | 3098*1130*1660 | 850 |
| | DCS-1200D-S | 512 | Double layer | AC220V/50Hz | ≤9.5 | 5215*1928*3093 | 3000 |

| | Index | Item | DCS series | | Index | Item | DCS series |
|---|---|---|---|---|---|---|---|
| performance index | Key devices | 12-inch LCD touch screen | ● | performance index | Solutions | Hazelnut shell kernel separation | ★★★★☆ |
| | | Ultra HD full color CCD sensor | ● | | Life index | Ejector life | ★★★★★ |
| | | Infrared imaging system | ● | | | LED source life | ★★★★★ |
| | | High quality imported ejector | ● | | | Machine operation life | ★★★★★ |
| | Solutions | Targeted localization | ● | | LED source | Full spectrum color adjustment system | ● |
| | | Flexible removal | ● | Intelligent Index | Intelligent system | Easy operation | ● |
| | | Shape sorting | ● | | | Color sorter chamberlain | ● |
| | | Walnut shell kernel separation | ● | | | Remote debugging | ● |
| | | Badam shell kernel separation | ★★★★★ | | | Intelligent diagnosis | ● |
| | | Almond shell kernel separation | ★★★★★ | | | One key backup | ● |
| | | Hickory shell kernel separation | ★★★★★ | | Air circuit system | Point-to-point dust-exhaust system | ● |
| | | Pecan shell kernel separation | ★★★★★ | | | Large capacity pneumatic system | ● |

The above parameters are determined at room temperature of 25℃ and 2% contamination of raw material, and specific indexes will change according to different environment, materialscontamination conditions;
☆ represents functional strength;
●: Standard; ○: optional; -: None