



*Colaborated
with*



MEYER COLOR SORTER TEA SORTING SOLUTIONS



MEYER WHOLE SCENE SOLUTIONS FOR TEA COLOR SORTING AND GRADING

Tea Color Sorting/Grading → Infrared Sorting → Light Floating → Impurities Sorting → Packaged Tea Impurities Sorting



**Meyer Tea Color Sorter
Five-stage Sorter**

- Strong Grading Ability
- 30% Increase in Output
- Brand New Structure



**Meyer Tea Color Sorter
Four-stage Sorter**

- 30% Increase in Output
- Brand New Structure
- Optional UHD AI Deep Learning



**Meyer Tea Color Sorter
Three-stage Sorter**

- 30% Increase in Output
- Brand New Structure
- Optional UHD AI Deep Learning



**Meyer Tea Color Sorter
Three-stage Infrared Sorter**

- NIR Infrared Technology
- Strong Grading Ability
- Intelligent Anti-broken



**Meyer Tea Color Sorter
KR Series**

- Accurately removing the light and fluffy foreign impurities, avoiding the manual picking after sorting.



**Meyer Tea Color Sorter
XM Series**

- Detection of foreign impurities not recognizable to the naked eyes after packaging
- Abundant and flexible rejection device

Tips Reverse Sorting From FTGFOP-1



Raw Material

Tips Accepts

Tips Rejects

Dryer Mouth Material Sorting



Raw Material

Accepts

Rejects

FOP Sorting



Final Accepts
(1st outlet)

Rejects to Be Circulated
(2nd outlet)

Dull Stalks
(3rd outlet)

Yellow Leaves and Yellow Stalks
(4th outlet)

OP Color and Size Sorting



Raw Material

Final OP Accepts
(1st outlet)

Big Leaves from OP Accepts
(2nd outlet)

Dull Stalks
(3rd outlet)

Yellow Leaves and Yellow Stalks
(4th outlet)

Impurity Removal



Dead Insect

Twig

Broom

Glass

Butt

Metal

Stone



Butt



Hair



Packaged Tea



Plastic



Feather



Packaged Tea



Insect



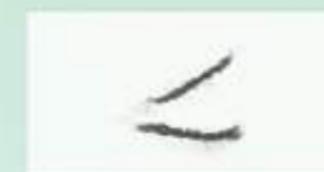
Insect



Packaged Tea



Strap

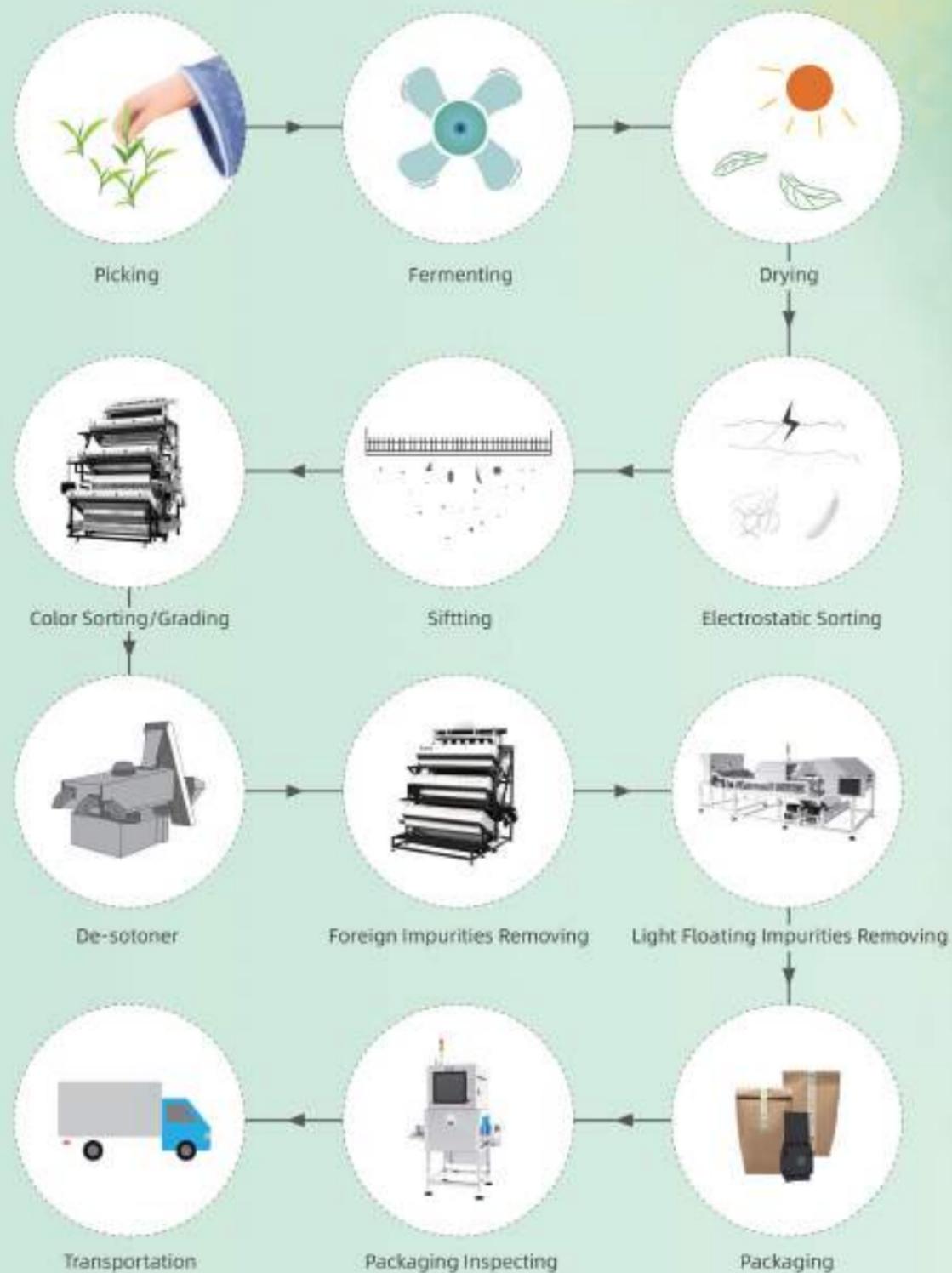


String



Packaged Tea

Tea Comprehensive Solutions



Brand New Structure For Tea Sorting



- **Large Output**
30% increase in output compared to traditional color sorters.
- **Brand New Structure**
Sorting process is fully upgraded for easier maintenance and upkeep.
- **Optional UHD AI Deep Learning Technology**
Effectively removes stalks from tea leaves with high sorting accuracy.
- **Strong Grading Ability**
- **Engineered Design, Intelligent Manufacturing**

Meyer Tea Color Sorter·Three-stage Sorter

The product suits for tea color sorting and grading. Brand new structure is easier for maintenance and upkeep, and 30% increase in output. Optional UHD AI deep learning technology, can recognize subtle color differences, and strong grading ability.

| Name | Model | Power (kW) | Voltage (V) | Air Pressure (MPa) | Air Consumption (m ³ /min) | Dimension (L*W*H mm) | Weight (kg) |
|---------|--------------|------------|----------------|--------------------|---------------------------------------|----------------------|-------------|
| 1080TD3 | 6CSX-1080TD3 | 10.0 | 340-420 (50Hz) | 0.6-0.8 | <6.4 | 3500X2600X3700 | 3000 |

M Expert Level to Guarantee Tea Sorting Quality



- **Large Output**
30% increase in output compared to traditional color sorters.
- **Brand New Structure**
Sorting process is fully upgraded for easier maintenance and upkeep.
- **Optional UHD AI Deep Learning Technology**
Effectively removes stalks from tea leaves with high sorting accuracy.
- **Strong Grading Ability**
- **Engineered Design, Intelligent Manufacturing**

Meyer Tea Color Sorter-Four-stage Sorter

The product suits for tea color sorting and grading. Brand new structure is easier for maintenance and upkeep, and 30% increase in output. Optional UHD AI deep learning technology, can recognize subtle color differences, and strong grading ability.

| Name | Model | Power (kW) | Voltage (V) | Air Pressure (MPa) | Air Consumption (m ³ /min) | Dimension (L*W*H mm) | Weight (kg) |
|---------|--------------|------------|----------------|--------------------|---------------------------------------|----------------------|-------------|
| 1440TD3 | 6CSX-1440TD3 | 6.9 | 340~420 (50Hz) | 0.6~0.8 | <6.5 | 3900X3650X4685 | 3800 |

M Large Output Tea Sorting Specialist



- **Strong Grading Ability**
Sorting out 6 sizes of tea leaves at one time, saving time and labor.
- **Large Output**
30% increase in output compared to traditional color sorters.
- **Brand New Structure**
Sorting process is fully upgraded for easier maintenance and upkeep.
- **Optional UHD AI Deep Learning Technology**
Effectively removes stalks from tea leaves with high sorting accuracy.
- **Engineered Design, Intelligent Manufacturing**

Meyer Tea Color Sorter-Five-stage Sorter

The product is with strong grading ability, can sort out 6 sizes of tea leaves at a time, saving time and labor. Brand new structure is easier for maintenance and upkeep, and 30% increase in output. Optional UHD AI deep learning technology, can recognize subtle color differences, and remove stalks from tea leaves.

| Name | Model | Power (kW) | Voltage (V) | Air Pressure (MPa) | Air Consumption (m ³ /min) | Dimension (L*W*H mm) | Weight (kg) |
|---------|--------------|------------|----------------|--------------------|---------------------------------------|----------------------|-------------|
| 1800TD3 | 6CSX-1800TD3 | 7.4 | 340~420 (50Hz) | 0.6~0.8 | <7.5 | 3900X3650X4685 | 4500 |

M With NIR Infrared Tech Remove All Impurities



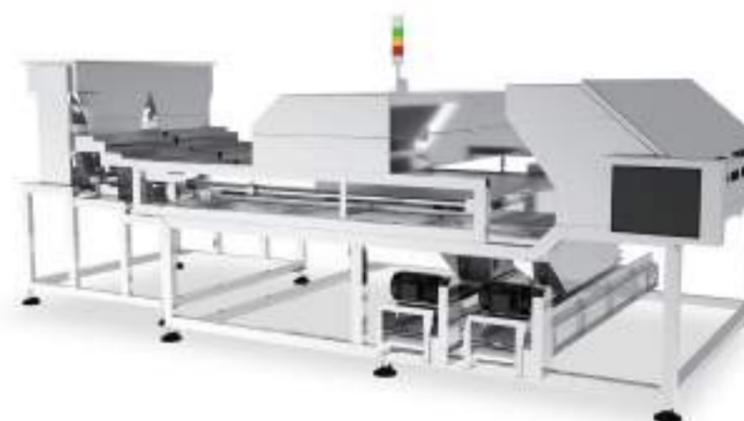
- **NIR Infrared Technology**
Removing insects, plastics, cigarette butts, wood chips and other impurities.
- **Large Output**
30% increase in output compared to traditional color sorters.
- **Optional UHD AI Deep Learning Technology**
Effectively removes stalks from tea leaves with high sorting accuracy.
- **Strong Grading Ability**

Meyer Tea Color Sorter·Three-stage Infrared Sorter

The product is equipped with visible light and NIR infrared technology, not only can removes stalks from tea leaves, but also can remove cigarette butts, plastics, stones, insects, woven bags and other impurities. It is also with strong grading ability and 30% increase in output.

| Name | Model | Power (kW) | Voltage (V) | Air Pressure (MPa) | Air Consumption (m ³ /min) | Dimension (L*W*H mm) | Weight (kg) |
|-------|------------|------------|----------------|--------------------|---------------------------------------|----------------------|-------------|
| 900TF | 6CSX-900TF | 6.0 | 340-420 (50Hz) | 0.6-0.8 | <5.4 | 2950×2930×3860 | 4000 |

M Light Floating Impurities Sorting Specialists of Premium Tea



- **Equipped with UHD AI Deep Learning Technology**
Resolution increased by 4 times, the sorting accuracy is fully increased, in addition to the traditional tea color sorting, but also refine the grading ability by size and length, easy to identify hair, string and other light floating impurities.
- **Special Blowing and Reject Mode**
Significantly reduce the probability of intermixing of final accepts and rejects with high sorting accuracy and lower loss.
- **Intelligent Anti-broken System**
Adopting the new variable-speed belt transmission structure, the sorting process is fully upgraded, effectively reducing the broken rate and greatly improving the material transfer efficiency.

Meyer Intelligent Sorter·KR Series

It is suitable for light floating impurities rejection in tea. Equipped with UHD deep learning system, low-speed belt drive structure and brand-new blowing mode, fully removes feathers, hair, insects, glass, plastic, sand, and other defects such as breakage and abnormality also can be controlled flexibly according to users' real-time demand, avoiding manual re-sorting after traditional color sorting.

| Name | Model | Power (kW) | Voltage (V) | Air Pressure (MPa) | Air Consumption (m ³ /min) | Dimension (L*W*H mm) | Weight (kg) |
|------|-------------|------------|----------------|--------------------|---------------------------------------|----------------------|-------------|
| KR | 6SXZ-120KR5 | 3.84 | 180-240 (50Hz) | 0.6-0.8 | ≤2.0 | 4200×1760×1550 | 850 |
| | 6SXZ-240KR5 | 4.94 | 180-240 (50Hz) | 0.6-0.8 | ≤3.0 | 3800×2350×2100 | 1150 |
| | 6SXZ-360KR5 | 7.34 | 180-240 (50Hz) | 0.6-0.8 | ≤4.5 | 3800×2950×2100 | 1450 |

MY Packaged Tea Inspecting Specialist



Meyer X-ray Machine · XM series

- Clear Imaging**
 350W German beryllium window radiation source can detect impurities with similar density.
- Outstanding Foreign Impurities Detection**
 Detect metals, stones, clods, glass, ceramics and other impurities.
- Abundant and Flexible Rejection Devices**
 Equipped with a variety of rejection structures such as swing-arm, flap, push-plate and air blowing to meet the needs of multiple scenes.
- Support AI deep learning technology**
 Match the optimal recognition algorithm for more accurate detection.

XM series X-ray inspection machine for packaged tea is mainly used for the detection of foreign impurities in small and medium-sized packages, which can provide comprehensive detection and precise rejection of all kinds of impurities such as metal, stone, glass, soil, hard rubber, etc. in the bags to provide the ultimate guarantee for the quality of tea.

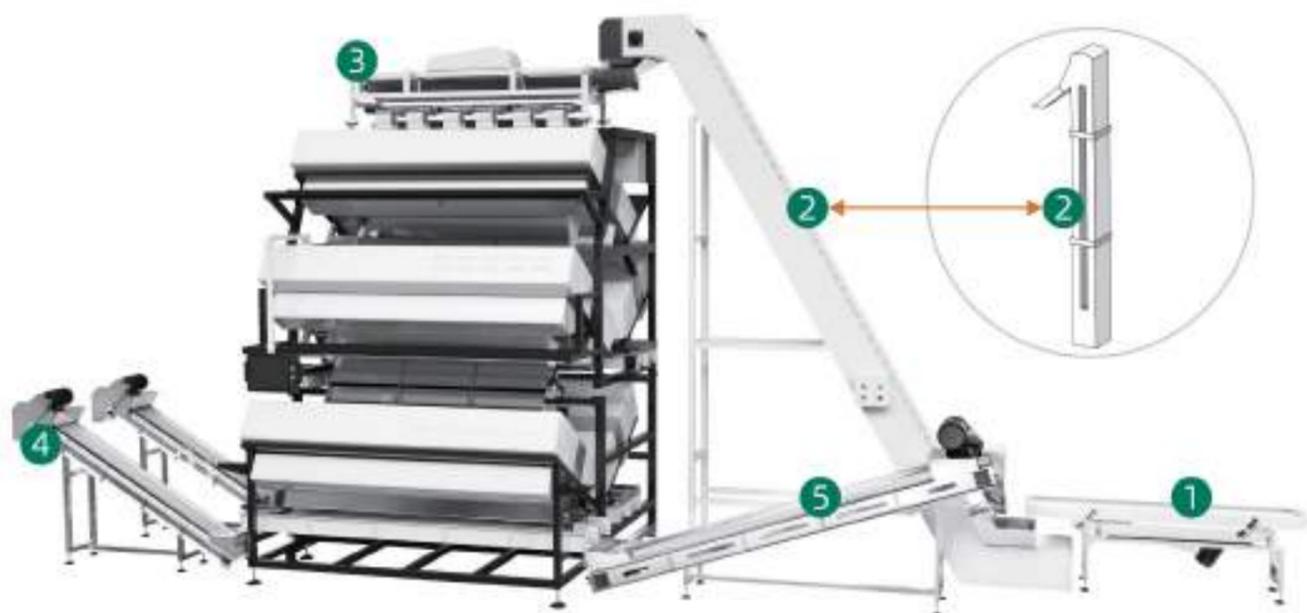
| | | | |
|----------------------------|--|------------------|------------------------------------|
| Model | MYB045-XM4 | Net Weight (kg) | 300 |
| Conveyor Belt Speed(m/min) | 10-80(adjustable) | Load(kg) | 10 |
| Conveyor Belt Width(mm) | 570 | X-ray Output | Beryllium 350W, Max90KV/8.0A |
| Size of Materials(mm) | Width≤445, Height≤200 (Trapezoidal detection area) | interface | 17inch LCD touch screen |
| Configuration LxWxH(mm) | 1108x1101x2045 | Protection Level | Transmission part IP66, Other IP65 |
| Service Environment | Ambient temperature: -0~40°C, relative humidity 30-90% No condensation, no freezing, upheaval. | Power Supply | AC220±10%, 50Hz±3, 2kW |
| Sensitivity (mm) | SUS ballφ0.3, SUS wireφ0.2x2.0, Ceramic ballφ1.0, Glass ballφ1.0 | | |

MY Configurations

| Item | 1080TD3 | 900TF | 1440TD3 | 1800TD3 |
|--------------------|---|-------|---------|---------|
| Key Parts | UHD AI Deep Learning System | ● | ● | ● |
| | 15-inch LCD Screen | ● | ● | ● |
| | Ultra HD True-Color Camera | ● | ● | ● |
| | Infrared Camera | - | ● | - |
| | Anti-Shattering Maglev Ejector | ● | ● | ● |
| Throughput | ★★★★ | ★★★★ | ★★★★★ | ★★★★★ |
| Performance | Sorting Accuracy | ★★★★★ | ★★★★ | ★★★★★ |
| | Carryover Rate (accept: reject) | ★★★★ | ★★★★ | ★★★★ |
| | Targeted Positioning | ● | ● | ● |
| | Flexible Removal | ● | ● | ● |
| | Grading | ★★★★★ | ★★★★★ | ★★★★★ |
| | Stalk & Leaf Separation | ★★★★★ | ★★★★ | ★★★★★ |
| Foreign Impurities | ★★★ | ★★★★★ | ★★★★ | |
| Service Life | Maglev Ejector | ★★★★★ | ★★★★★ | ★★★★★ |
| | LED | ★★★★★ | ★★★★★ | ★★★★★ |
| | Sorter Care APP | ● | ● | ● |
| | Remote Control | ● | ● | ● |
| | Intelligent Checkup | ● | ● | ● |
| Intelligent Backup | ● | ● | ● | |
| Air Circuit System | High-efficient Air Circuit System | ● | ● | ● |
| Machine Protection | Vibrator Anti-blocking | ● | ● | ● |
| | Multiple Protection For Wiper Cylinder | ● | ● | ● |
| | Long Distance Protection Of Sorting Chamber | ● | ● | ● |

Parameters above are tested on the environment of 25°C and 2% impurities rate and may change in different conditions.
 ☆: Function strength, ●: Standard, ○: Selection - : No
 The maglev ejector and LED can work throughout color sorters' life under ideal conditions.

Tea Sorting Processing Line



1.Vibrating Screen
(Optional)

2.Z-type/Bucket
Elevator (Optional)

3.Color Sorter

4.Output Elevator
(Optional)

5.Resort Conveyor
(Optional)

Usually, a tea color sorter needs a complete set of supporting parts to meet the actual application scenario. When the tea enters into the input hopper, after vibrating screen to remove tiny impurities and flattening raw materials, it enters into the color sorter through Z-type elevator, after AI deep learning algorithms to identify and reject, the good tea will enter into the final product warehouse through the output elevator, the tea stalks or yellow leaves will enter into the corresponding waste bin, the rest of the tea mixture will enter into the vibrating screen through the resort conveyor to resort.

Intelligent Manufacturing



Meyer Intelligent Factory
(Component Assembly Production Base)

Through standardized, modularized design, more than 70% of the parts have achieved automated, intelligent production, and constantly achieve whether 1 or 10,000 units, the product quality is always the same!



Meyer Intelligent Factory
(Painted Sheet Metal Production Base)

The plant introduced the first sheet metal automated flexible processing line, intelligent plate bending center, robotic welding line, robotic painting line, etc., which will enhance the performance, reliability, environmental protection and production efficiency of Meyer products in all aspects.



Sheet Metal Automated Flexible Processing Line



Intelligent Plate Bending Center



Automated Racks Welding Production Line



Robotic Painting Line



Maglev Ejector 3.0 Unmanned Production Line



Color Sorter Assembly Line

Customer Production Lines





Pursuing Quality and Serving Customers

A-share Stock Code:002690

For the past thirty years, Meyer Optoelectronic has been dedicated to the research, development, and manufacturing of optical intelligent recognition equipment, with a strong focus on three major business sectors: food safety, healthcare, recycling. In 2012, Meyer was listed on the Shenzhen Stock Exchange market in China. In the field of food safety, we have accumulated over 600 authorized patents. Our main products include color sorters, X-ray foreign object detector, quality analyzers, Dental CBCT, etc. We can sort and detect over 500 types of materials. Our products are exported to over 100 countries and regions worldwide. We have over 60,000 customers and have sold nearly 100,000 units of equipment.

Meyer Optoelectronic has always adhered to the core values of 'pursuing quality and serving customers', and is committed to achieving excellence in products by focusing on key indicators such as performance and reliability, in order to create greater value for customers. We strive to implement the development strategy of 'promoting standardization, modularization, intelligence, digitization, and internationalization'. Through standardized, modular, and intelligent design at the source, we have built two intelligent factories, introduced multiple automated and unmanned production lines, as well as a flexible assembly workshop, to continuously achieve consistent quality for every single unit or batch of Meyer products. Additionally, Meyer equipment supports the interconnection of production lines, helping you realize digitalization.

Major Events

- | | | | |
|------|---|------|---|
| 1993 | -Ancoo, predecessor of Meyer was founded | 2014 | -Ranked 25th in Forbes China's Top 100 Listed Potential Companies -Designated as an A-class export enterprise by the Chinese Customs |
| 1994 | -China's first optical color sorter was released | 2020 | -The industry's first intelligent factory was put into operation -Ranked among the Hurun China 500 Private Enterprises |
| 2000 | -Meyer was founded | 2021 | -Second-time recipient of the Chinese National Science and Technology Progress Award |
| 2004 | -Led the export of color sorters from China to overseas markets | 2022 | -Ranked among the Top 500 New Economy Enterprises in China |
| 2006 | -First-time recipient of the Chinese National Science and Technology Progress Award | 2023 | -Ranked among the Top 500 Chinese Brands |
| 2012 | -Listed in stock market -The first China's Dental CBCT was released | ... | |

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