Bühler YJT Optical Sorters.

Affordable and dependable optical sorting.
Bühler YJT.
An integral part of the Bühler optical sorting family.

Bühler manufactures the YJT range of optical sorters for selected markets, operating from a new and modern 160,000 square metre factory and office in Hefei, central China.

With the YJT optical sorters Bühler is committed to deliver competitively priced, efficient and reliable sorting solutions, supported by our continual investment in technology and production systems.

Why Bühler YJT?
Bühler YJT is the first choice for processors seeking ownership, assurance and functionality of Bühler’s optical sorting heritage and technology at an affordable price.
- Trusted Bühler quality and reliability
- Access to Bühler optical sorting heritage and expertise
- High capacities and reliable performance
- Extensive sales and service network across Asia, Middle East and Africa
Strong collaboration

Bühler YJT is an integral member of The Bühler Group and has close links with the established Bühler China headquarters and manufacturing facilities in Wuxi.

Subsequently, YJT customers benefit from modern local manufacturing facilities, production at appropriate local prices and an effective spare parts distribution service.

A strong export and fulfilment team works for machine projects from installation and commissioning to start up training and hand-over to customers.

Bühler YJT innovation and training

Bühler in China has become an important innovation hub. We continuously invest in research and development, working on new products and solutions.

State of the art application centres and training facilities ensure that YJT customers stay ahead in the market.

Trained specialists are available for other sales service since customer needs vary greatly across different countries.

Bühler YJT provides optimised cost-effective solutions in order to guarantee maximum customer benefits.
YJT W.
Cost-effective advanced high capacity rice sorting.

Bühler YJT W - offering up to 7 chutes for high processing capabilities of up to 12 tonnes per hour. Featuring Bühler developed processing software and LED illumination detection systems, the new Bühler YJT W range offers rice processors entry into Bühler’s optical sorting technology and processing expertise, delivering accurate and reliable accept quality and cost-effective operation.

Based on industry proven Bühler optical sorting technologies, the new YJT W range features monochromatic inspection technology, tertiary sorting capabilities and LED illumination to provide a dependable and reliable colour sorting with high processing capabilities.

The new YJT W is the first choice for rice processors seeking ownership, assurance and functionality of Bühler’s optical sorting heritage and technology at an affordable price.
YJT W DualVision.
High efficiency, cost-effective light and dark sort for pulses, spices & sesame seeds.

Bühler YJT W DualVision - offering a simultaneous light and dark sort on up to 7 chutes for high processing capacities. The YJT W DualVision is targeted to give processors of pulses, spices and sesame seeds advanced performance at an affordable price.

An inspection system that offers simultaneous light and dark sorting. When combined with LED lighting, this optical sorter improves the level of sorting performance, provides better plant efficiency, and saves on manpower costs.

The YJT W DualVision is the natural choice for processors of pulses, spices and sesame seeds who are looking for a stable and consistent high performance, with the flexibility for multi-product sorting at an affordable price.
YJT WB.
High definition CCD sorter for nuts, coffee, seeds and plastics.

The YJT WB optical sorter is equipped with advanced vision technology and features, designed for processors with high performance requirements and consistent yield.

Combined with its advanced technologies, high definition CCD cameras, customised lighting and high speed ejectors, the YJT WB is designed to provide a high sorting performance and uptime.

Suitable for medium and large scale processors, the YJT WB sorter is available in various configurations to suit different processing requirements in nuts, coffee, seeds and plastics.

- High definition bichromatic cameras detect colour variations, spot defects and foreign material
- Simultaneous resort option allows the recovery of good product from the reject stream
- Graphical User Interface (GUI) stores over 100 sorting modes for fast product changeovers
- Durable high speed ejectors minimise sorter downtime and maintenance
What is a balanced and stable sorting performance system?

A Bühler optical sorter configured for tertiary sorting returns the accept from the secondary sort into the primary input, and the accept from the tertiary sort into the secondary input. A balanced sorting system is one where the product that is being re-circulated is the same or lower contamination than the incoming product, and grains categorised as more subtle such as brown and yellow, are either rejected or accepted as per individual requirement.

What are the benefits?

Consistent accept quality

On a balanced system, the input contamination doesn’t increase over time. The effect of this is that the accept quality remains consistent instead of slowly deteriorating throughout the day. Maximum revenue is returned and the chance of customers returning product diminished. Additionally there is not unsorted product left in the system once the batch has been completed.

Product circulation avoided

Defective grains end up in the reject stream and good grains in the accept stream, there is no constant re-circulation of product stuck in a loop, neither good enough to meet the accept criteria, but not being rejected in an attempt to provide a very concentrated reject. The result is a reduction in the consumption of compressed air and energy, and additionally a reduction in the wear of the sorter as it is not having to feed and eject the same grains over and over. On top of this, the capacity over time is not negatively affected and batches of product can be completed in a faster time. On an unbalanced system with product re-circulating the effective capacity of the sorter drops, slowing the processing capacity of a milling line.

Greater product control

With no re-circulation, the accept and reject streams are a true representation of the performance the sorter is achieving. This allows the operator full control to adjust the accept quality and reject ratio to meet customer requirements. Automatic Product Tracking (a feature unique to Bühler) maintains this performance quality and consistency over the entire batch or product run.
YJT CLV.
Tertiary sorting and LED lighting technology.

The YJT CLV is the enhanced CCD technology rice sorter from Bühler. Featuring updates to inspection, sorting and lighting systems, the CLV controls product quality while minimising yield loss and delivering efficient sorting results for rice. Sensor technology detects a variety of defects and foreign material, such as discoloured and immature grains, yellows or pecks and stones in rice.

Operator control is made easy via a touch screen and allows for easy product change over or sorting performance adjustment if needed.

Tertiary sorting is offered as an option and provides the maximum yield and highest reject ratios possible, with the minimum in good product rejected.

- Tertiary sorting as an option
- Long-life LED illumination system
- Removes colour defects as well as general foreign material
- Operation made easy with simple user interface
- Delivering value for money
- Different machine sizes available to cover high processing capacities
YJT CMOS Optical Sorter.
Designed for a wide variety of applications.

The YJT CMOS has been designed to sort a wide variety of products, especially rice. It is equipped with a CMOS and digital processing system to deliver a consistent and reliable sorting performance.

The simple and robust design of the YJT CMOS optical sorter is designed to deliver dependable performance in the most challenging of sorting environments:

- Enhanced CMOS and digital processing system
- Removes colour defects and foreign material
- Excellent value for money
- Operation made easy with simple-to-use Graphical User Interface (GUI)
- Machine options available to cover processing capacities of up to 12 tonnes per hour
- Offers simultaneous sorting, discolour sorting, reverse sorting and transparent sorting
YJT Technology and Performance.  
Cost-effective and efficient.

Flexibility and ease of use
The YJT W range is available with Bühler’s proprietary operational software with its easy to use graphical user interface (GUI). Developed by Bühler software engineers, the software can support more than 100 user defined modes to provide operators with effortless handling of product changeover and changes in input and product variation. This valuable system, featuring alerts and performance monitoring, also helps to maximise uptime and ensures faster service responses.

Inspection system with LED lighting
High resolution CCD cameras are developed with optic sensors that deliver the colour registration needed to detect defects and foreign material. When combined with the long life LED advanced lighting system, the YJT range of optical sorters, can target defects within the entire visible spectrum.

Tertiary sorting
Thanks to a flexible sorting configuration, tertiary sorting is an available option on some YJT sorters to deliver exact customer accept quality requirements.

High speed ejectors
Powerful and reliable ejectors feature on YJT sorters that are built for high speed and long life. Through constant development, the ejectors’ life span has been increased significantly. This efficiency of operation and maintenance enables the low cost ownership of the YJT sorter.
Bühler YJT
An integral part of the Bühler optical sorting family.

Bühler YJT Sales and Support Network

Bühler YJT optical sorters are available in selected markets through exclusive partners.

Local experts who speak your language, are close to you and provide professional advice, fast support and original spare parts.

Plus as part of the global Bühler Group, YJT customers benefit from access to advice and application information from the world leader in optical sorting technology and heritage.

Bühler YJT Customer Care.

Bühler YJT solutions and service ensure that your optical sorter performs to maximum efficiency, delivering maximum productivity and making a maximum return on investment.

Bühler’s worldwide Customer Care organisation delivers the highest quality local support by offering a variety of services through the YJT sales and service network.