



Bühler W  
**High capacity  
optical sorting.**

# Optical Sorting from Bühler

## **An integral part of the rice industry.**

For 70 years, Bühler has taken the lead to deliver innovative optical sorting solutions in rice. Built into all Bühler rice sorters is the ethos of superior machine performance, revolutionary technologies and balanced stable sorting. This is the Bühler competitive edge and the reason why Bühler is the leading brand of choice for so many rice processors.

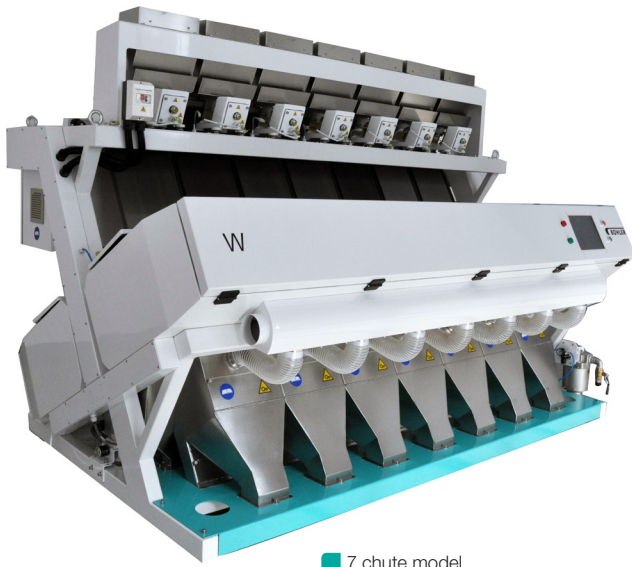
Offering innovative technologies, Bühler has the right solution for you, no matter the capacity, requirement or budget.

Bühler's wide range of optical sorting solutions offer rice processors flexibility of choice, without compromising on quality. The Bühler range of optical sorters is suitable for small, medium or large-scale processing and for a wide variety of rice applications including raw, parboiled and steamed.

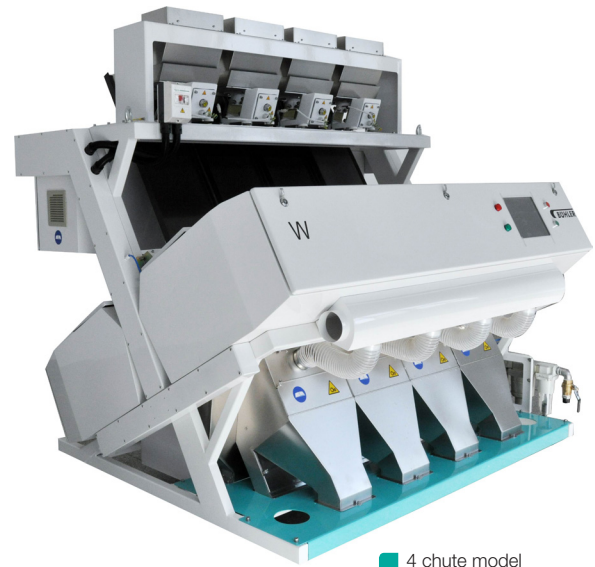
### Why Bühler?

- High processing capacity
- Consistent product quality
- Simple ease of use
- Trusted Bühler design and reliability

# High capacity, cost-effective rice sorting. **Bühler W Optical Sorter.**



■ 7 chute model



■ 4 chute model

Purposely designed as a cost effective rice sorting solution for processors looking for a high capacity optical sorter to deliver a reliable and consistent sorting performance.

Designed for mainstream, everyday sorting, removing obvious defects including yellows, pecks, streaks and foreign materials.

Featuring Bühler proprietary technologies including custom-built cameras, LED lighting and processing software, the Bühler W is the only optical sorter within the same industry class, to be equipped with Automatic Product Tracking - a technology that helps maintain peak performance and capacity throughout the day.

# Precision and Power

## Reliable performance.

Discoloured grains, by-product and foreign material can all affect food safety and product value. Bühler technology significantly reduces these issues to maximise yield, increase profitability and ensure consistent product safety.

Accept Reject



### Short Grain

Trials conducted by Bühler experts on short grain white rice showed the successful removal of spots, peck, and various foreign materials including husks, stones and seeds.

### Parboiled

Bühler trials on parboiled rice showed the successful removal of various rice discolouration from the sample, including obvious black tips, yellows, streaks and foreign materials.

### Basmati rice

Trials using basmati rice successfully removed unwanted colour from pale to dark yellow.

Suitable for all rice varieties.



Basmati



Jasmine



Parboiled



Shortgrain



Brown

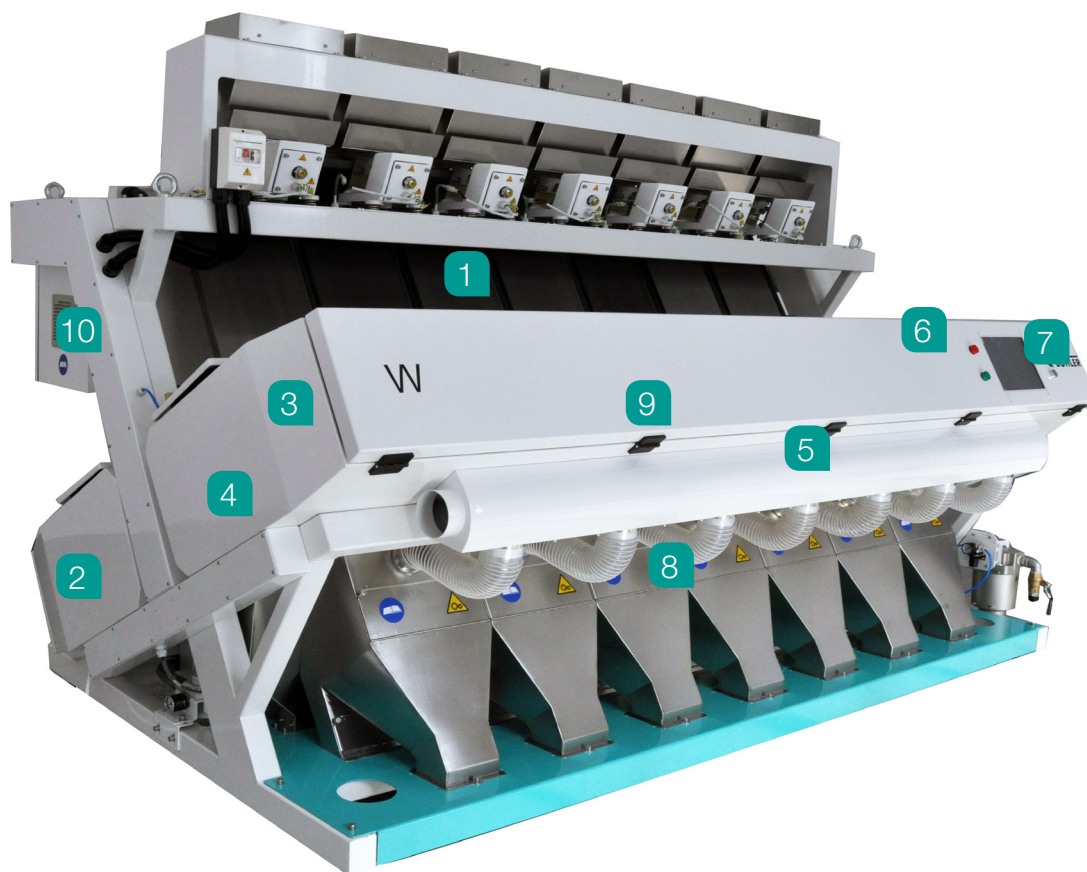


Red



# Features at a glance.

## Bühler W Optical Sorter.



### 1 High processing capacity

Available with up to 7 chutes to deliver up to 12 tonnes per hour

### 2 LED Lighting

Enhanced defect recognition through long-life LED solid state illumination

### 3 Custom-built cameras

Front and rear high resolution CCD visible cameras to detect all common defect types

### 4 Auto-Calibration

The optical sorter automatically reviews and adjusts the sorter set-up on start-up, removing the need for laborious manual set-up

### 5 Automatic Product Tracking

The optical sorter consistently scans and automatically adjusts to changes in the incoming product, removing the need for manual intervention and improving sort quality

### 6 Balanced and Stable Performance

Consistent accept quality and minimised product re-circulation maximise revenue and reduce wear on the optical sorter

### 7 Product Modes

Up to 100 user-defined modes can be saved

### 8 Long life powerful ejectors

64 powerful, high speed ejectors per chute for accurate rejection of defects and high capacity

### 9 Fixed Background

Static background ensures that all vibration is minimised

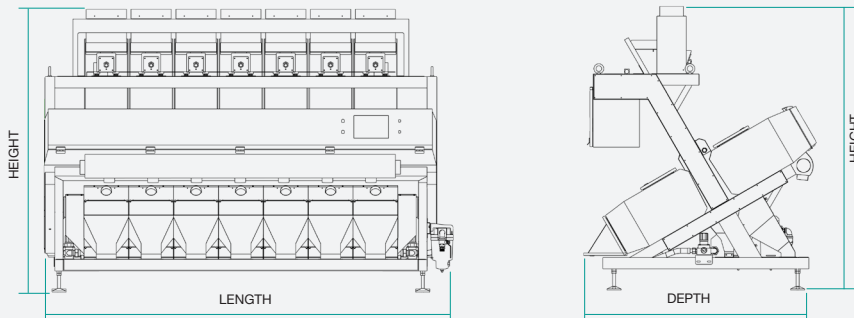
### 10 Bühler robust design quality

Designed and constructed to Bühler's high quality standards. Including sealed optical and control boxes for dust containment

# Technical specifications.

## Bühler W Optical Sorter.

### Bühler W



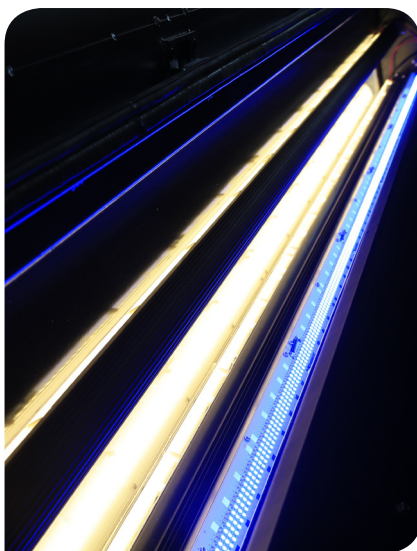
### Dimensions, air and power requirements

	<b>4 FRAME</b> For 2 , 3 and 4 chutes	<b>7 FRAME</b> For 5, 6 and 7 chutes
Length (mm)	2,060	2,920
Depth (mm)	1,610	1,620
Height (mm)	2,000	2,020
Weight (kg)	≤1,000	≤1,600
Air Pressure	0.6 - 0.8 Mpa	0.6 - 0.8 Mpa
Voltage	200–240v, 50/60 Hz	200–240v, 50/60 Hz
Power	3 kW	4 kW
Capacity*	up to 6 tonnes/hour	up to 12 tonnes/hour
Air consumption	≤3.2m <sup>3</sup> /min	≤4.5 m <sup>3</sup> /min

Remarks: ±10mm tolerance is acceptable by real calculation.  
 Figures will vary based on machine specifications.  
 \*Figures will vary based on throughput and input contamination levels.

# Benefits.

## Bühler W Optical Sorter.



### High capacity and product quality

#### Up to 7 chutes delivering capacities of up to 12 tonnes per hour

Easily upgraded to meet changing business requirements. Available in 2, 3, 4, 5, 6 and 7 modules in two different machine frame sizes.

#### Reliable sorting performance

Equipped with Bühler inspection and lighting systems to reliably detect colour defects including spots, chalky, peck, yellows and various foreign material.

#### Flexible configuration

Easily configured for primary, secondary and tertiary sorting. This option allows for a more balanced and stable performance for higher yield.

### Trusted Bühler design and reliability

#### Reliable performance and robust build quality

Built to Bühler's stringent quality and product design standards for longer life span and consistent performance.

#### Durability and consistent performance

Combination of cameras, LED lighting and high speed ejectors allows the optical sorter to operate at its peak performance over a long period of time.

#### High productivity and improved operational stability

Combination of Bühler lighting system including the fixed background and low voltage vibrator, auto-adjusts varying light levels, minimises vibrations and produces consistent throughput across the chute.

### Flexibility and ease of use

#### Bühler proprietary operating system

Features proprietary operating system and processing software embedded on an easy to use graphical user interface (GUI).

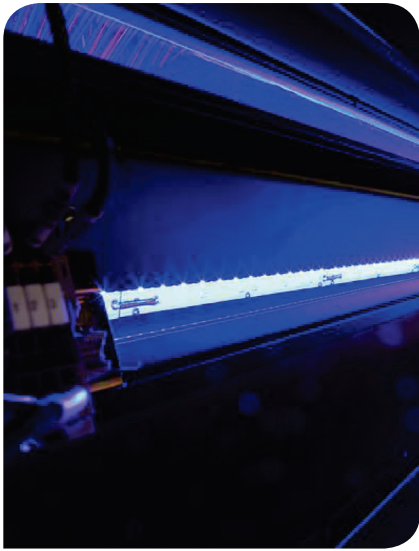
#### Effortless product changeover

Developed by Bühler software engineers, the software can support up to 100 user defined modes to provide operators with effortless handling of product changeover.

#### High productivity

Alert and performance monitoring capability - maximising uptime and ensuring faster service responses.





## Balanced and Stable Performance

### Balanced Sorting

The optical sorter consistently maintains accept quality levels by automatically scanning and adjusting to changes in the incoming product, removing the need for manual intervention, improving sort quality and minimising product re-circulation.

### Product tracking

The only optical sorter in the industry, within the same-class, to be equipped with an Automatic Product Tracking - a technology that helps maintain peak performance and capacity throughout the day.



# In the region – for the region: Centres of competence, training and service.

Bühler's worldwide Customer Care is a service organisation with presence in over 140 countries.

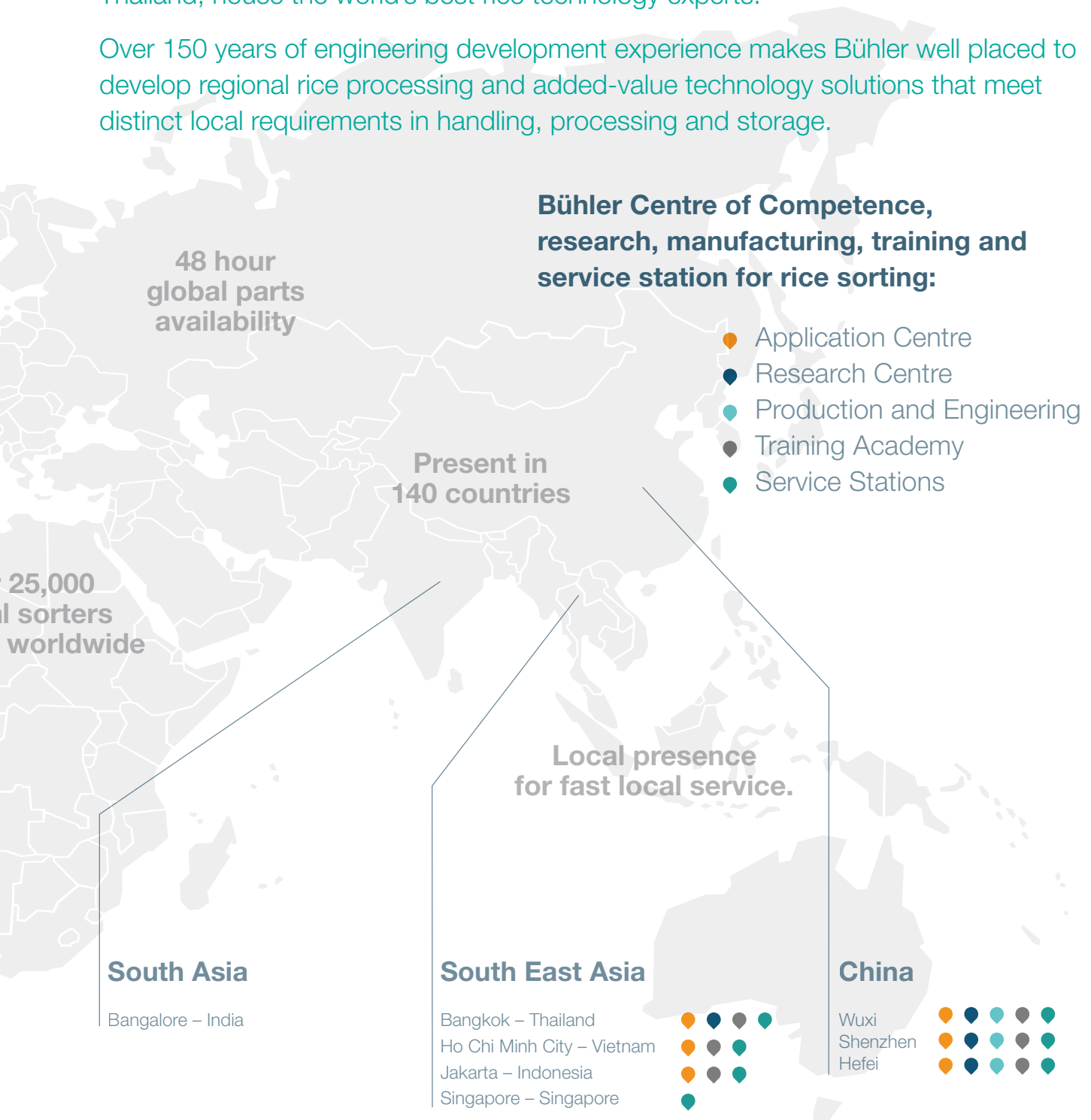
Providing customer support through a variety of solutions including maintenance, spare parts and training courses. These are all designed to help ensure your optical sorter performs efficiently, delivering optimum capacity and making a maximum return on investment.

To date, we have installed over 25,000 optical sorters around the world, working with processors of all sizes to deliver productivity and profitability.




Our global reach gives you unparalleled access to our wide range of capabilities, successfully delivering equipment, services and support locally. Furthermore, Centres of Competence located in major rice producing markets, including India, China and Thailand, house the world's best rice technology experts.

Over 150 years of engineering development experience makes Bühler well placed to develop regional rice processing and added-value technology solutions that meet distinct local requirements in handling, processing and storage.



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