



SPARK Pro+
Simple and Robust

Exceeding industry expectations

Designed for diverse industry requirements

We listened to you. Supplier prices are soaring. Harvests are unpredictable. And competition is high. We analyzed every component and pushed down every profit margin to create our most simple and robust sorter ever. Giving you the Bühler quality, and 75 years of industry-leading experience with unbeatable value.

In line with Bühler's vision to create innovation for a better world, SPARK invites everyone to access food safety standards via optical sorting. **With SPARK, businesses can access quality and consistent performance to create safe food for all without a heavy price tag.**

Simple operation

Zero-spillage

Multi-commodity

Bühler performance

SPARK: Simple and Robust



Meet SPARK, a revolution in simple, reliable performance

Critical design elements explained:



- 1 Zero spillage concept to avoid product losses
- 2 Multiple modules available from 1 to 10 chutes
- 3 Bühler developed HD full colour cameras
- 4 Newly developed HD IR camera
- 5 Five times faster setup due to "Hue Saturation Value"
- 6 Higher size sorting capacity
- 7 DynamoAi, newly developed sorting engine
- 8 2x more light with full spectrum LED lighting

Sorting, Simplified

Core features



Hue Saturation Value

HSV is the fastest and easiest way to set up and sort to the highest possible performance without deeply depending on skilled staff/operators. SPARK is five times faster to set up in comparison to previous models.



Ease of use

With the newly developed sorting algorithm, operating SPARK is child's play. From the dashboard to the engine, everything is designed for ease of use, inviting peak performance without the need for highly skilled operators.



Size sorting

Experience the new DynamoAI engine on simple undersize and oversize sorting tasks.



Reflection and transparency sorting modes

SPARK is able to sort in reflection and/or transparent sorting modes. This core feature is linked to the product mode.

Bühler SPARK Pro+

Core features

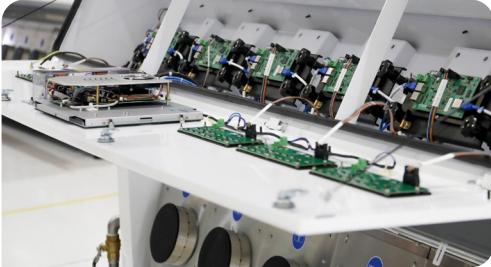
Digital services - Bühler SPARK remote control

Bühler SPARK remote control will allow you to control and check the sorter's performance from anywhere in the world.



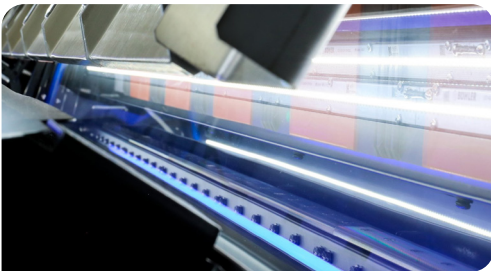
Designed for performance

New developments that make the difference



New cameras

Bühler's inhouse developed HD full colour cameras combined with our brand-new developed HD IR camera will help you to detect and successfully eject all kind of visible and invisible defects down to a size of only 0.0025mm².



New lighting

Bühler's inhouse developed Full Spectrum LED lighting system will enhance your sorting performance to the next level. Achieve higher differentiation between good and bad product especially on transparency sorting applications.



Zero spillage

Reduce product losses with SPARK's zero-spillage design, ensuring no single kernel leaves the machine and loses money.



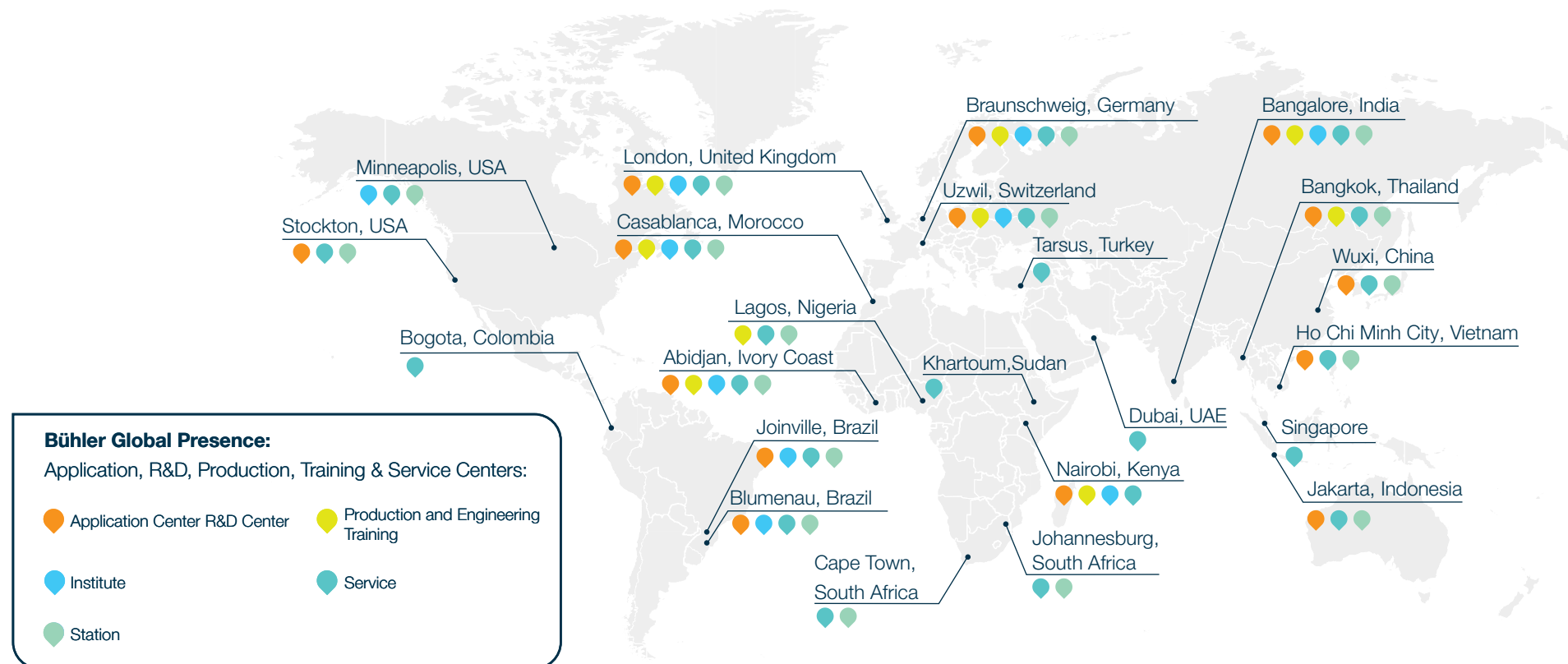
Localization services: Application, Training & Service Centers

Bühler customers are represented in more than 140 countries worldwide. By providing customer services such as maintenance, parts supply and training courses, you can be confident that your color sorters are kept running efficiently, at optimum capacity and with maximum return on investment.

To date, Bühler has more than 25,000 color sorters installed worldwide, operating in production plants of all sizes and helping customers achieve higher productivity and profitability.

With a global presence, customers can experience our broad range of functions locally, including the provision of equipment, service and support to local customers. In addition, we have application centers in key grain markets including India and China, each with some of the world's best grain technology experts.

With more than 150 years of engineering experience, Bühler is able to meet the different needs of grain handling, processing and storage in each region, developing appropriate grain processing and value-added technology solutions for its customers.



Color sorting solution

Applications

White peas



Split chickpeas



Millet



Barley with skin



Maize



Red lentils



Black gram



Green gram



Sorghum



Barley without skin

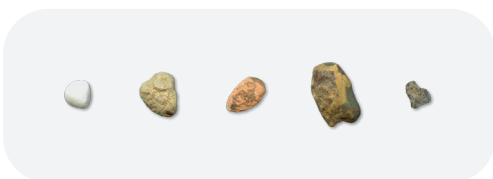


Peanuts with skin

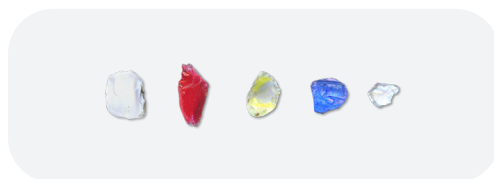


Pigeon pea/ Toor dal

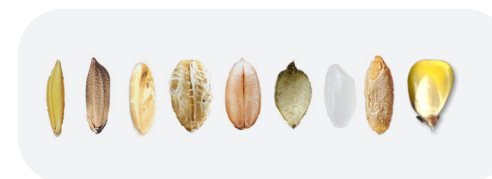
Defects and foreign material



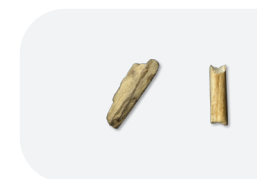
Stones



Glass



Foreign seeds



Sticks

Mung beans



Green coffee beans



Soybeans



Sunflower seeds



Red sichuan peppers



Blanched almonds



Red beans



Roasted
coffee beans



Sesame seeds



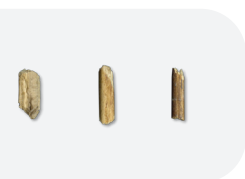
Cotton seeds



White peppers



Pet plastic flakes



Color



Various



Mudballs

Bühler intelligent color sorting solutions

Technical details



Model	Weight	Width	Depth	Height	Air pressure	Air consumption	Power consumption (With channel heating)	Power consumption (No channel heating)
	(kg)	(mm)	(mm)	(mm)	(MPa)	(m ³ /min)	kW	kW
SPARK 1	420	900	1668	1900	≥0.6	<1.5	1,8	1,5
SPARK 2	800	1643	1668	1900	≥0.6	<2.0	2,6	2,2
SPARK 3	1000	1643	1668	1900	≥0.6	<2.5	3,0	2,3
SPARK 4	1200	2283	1668	1900	≥0.6	<3.0	4,0	3,4
SPARK 5	1400	2283	1668	1900	≥0.6	<3.5	4,7	3,5
SPARK 6	1600	2710	1668	1900	≥0.6	<4.0	6,0	4,6
SPARK 7	1700	3350	1668	1900	≥0.6	<4.3	6,4	4,8
SPARK 8	1750	3350	1668	1900	≥0.6	<4.5	6,8	0,5
SPARK 9	1950	3990	1668	1900	≥0.6	<5.5	7,1	5,0
SPARK 10	2120	3990	1668	1900	≥0.6	<7.0	8,5	6,2

Bühler SPARK Pro and SPARK Pro+

Overview of core features

Index	Project	SPARK Pro	SPARK Pro+
Core components	Artificial Intelligence DynamoAI	•	•
	15" LCD touch screen	•	•
	Full Colour HD Camera	•	•
	HD NIR Imaging System	-	•
	InGaAs Imaging System	-	-
	High frequency Sniper Valve	•	•
Color sorting indicators	Single Channel Throughput	1.5-2.0t/h Depending on the application	1.5-2.0t/h Depending on the application
	Shape (Size Sorting)	•	•
	LED Full Spectrum Illumination system	•	•
	Cross Target localization	•	•
Life expectancy indicators	Sniper Ejector	• • •	• • •
	LED Light Source Life	• • •	• • •
	Power Supply of the whole machine	• • •	• • •
FM sorting capabilities	Glass, Wood, Metal, Textile	• •	• • • •
	Plastics	• •	• • •
	Others	•	• •
Feeding System	Chute Covers	○	○
	Flow Control System	○	○
	Load Cell		
Dust Extraction System	Chute aspiration (TOP)	○	○
	Optical area	•	•
Intelligent IOT	Bühler SPARK remote control	•	•

• Standard - Not Available ○ Optional

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