

SORTER MACHINE

COFFEE COLOR SORTER 6VLM-136



VOLTUMACHINE
INGENIERÍA CAFETERA



WHY INVEST IN A COFFEE SORTING?


Our coffee sorting machine uses AI technology to automatically sort and remove impurities from raw and roasted coffee beans. This helps you create a precise roasting and high-quality coffee. Our coffee sorting machine will ensure you have clean beans for better taste and aroma, improving the quality and consistency of your coffee while streamlining the production process.



SORTER MACHINE

AI DEEP LEARNING 2 CHUTES COFFEE COLOR SORTER 6VLM-136



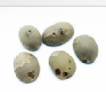
Capacity (kg/h)	Sorting precision (%)	Power (Kw)	Air source pressure (Mpa)	Air consumption (L/min)
800-1000	≥ 99	1.1-1.4	0.5-0.7	<1000
1259mm*1571mm*1769mm  370 kg				

COFFEE COLOR SORTER

Green Coffee Sorting



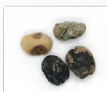
Accept of green beans



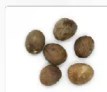
Insect damage



Shell



Mouldy

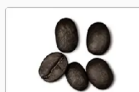


Dark waxy

Roasted Coffee Sorting



Accept of roasted beans



Black

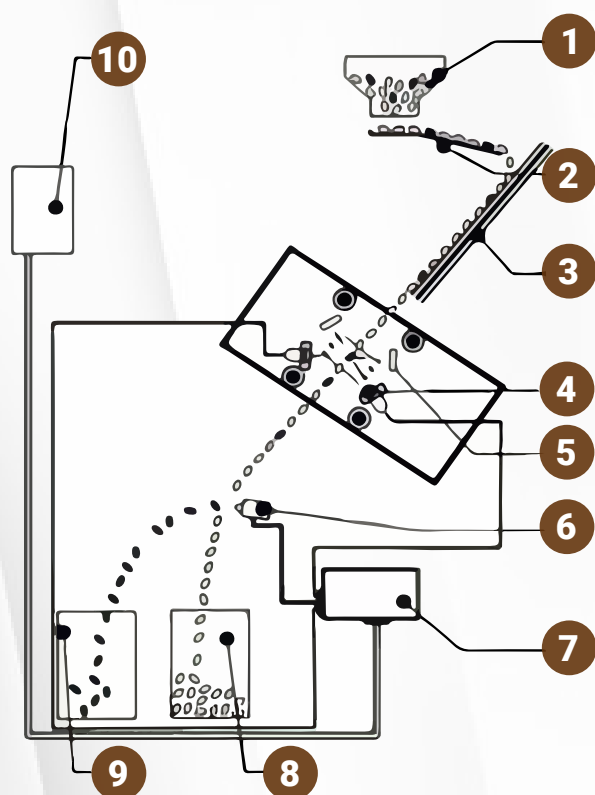


Shells



Light - colored

WORKING PRINCIPLE



1. PRODUCT IN-FEED HOPPER
2. VIBRATING PLATE
3. SLOPING CHUTE
4. FULL-COLOR RGB CCD CAMERAS
5. REFLECTOR PANEL
6. EJECTOR
7. CONTROL BOX
8. DISCHARGING HOPPER FOR SORTERD PRODUCT
9. REJECT PRODUCTS DISCHARGING HOPPER
10. DPS

Raw materials are loaded into the in-feed hopper and move along a vibrating plate until they flow onto channels, where they are separated from each other. At the end of the channel, the materials are individually detected by RGB-Full color sorter cameras. Depending on the signals received by the optical device, the sorter software controls a pneumatic device that physically separates the unwanted products from the ones that meet the specified criteria. The conforming products naturally reach the discharging hopper, while the rejected products are diverted by a jet of compressed air and discharged into the front side hopper.



ADVANTAGES OF VOLTUMACHINE SORTERS

1 High precision

The newest 4th generation Area array RGB full color CCD sensor offers high precision and can identify even the subtlest color differences as small as 0.01 mm². This is significantly more accurate and efficient than the 0.08 mm² linear array CCD of the 3rd generation, resulting in a sorting accuracy of up to 99.9%. The 4th generation CCD has a sorting capacity that is 8 times greater than that of the 3rd generation or monochrome machine.

2 Multifunction

Our machine is capable of removing a wide variety of impurities from both green and roasted coffee beans, as well as sorting the beans according to their quality.

3 AI deep learning

Our machine uses advanced AI deep learning algorithms to automatically identify and classify good and defective products. This allows for efficient and accurate sorting without the need for manual inspection. The system automatically records information about the good and defective products for further analysis.

4 Remote control

Our machine offers remote control and one-key operation via a mobile app for easy access from a remote location. The detachable tablet features a user-friendly operating system and comes pre-loaded with 30 memorized sorting programs.



5 Magnetic Ejector

Equipped with an Italian high-precision magnetic suspension valve that offers a high-frequency of 1200/s and a response time of 0.6 ms. This ensures reliable and efficient operation, with a long service life of more than 20 billion times.

6 YSC Filter

The YSC filter effectively removes water, oil, and other contaminants from the air, ensuring clean and safe operation.

7 Food-safe stainless steel construction

Our sorters are built with 304 food-grade stainless steel to ensure that the sorted products are free from contamination and meet the highest standards for food safety.

8 SMC Rodless cylinder

Durable SMC rodless cylinder made of 3004 anti-rust food-grade standard aluminum alloy. 304 food-grade stainless steel rack for cleaning brushes.





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