

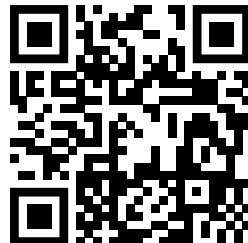


ENABLE THE MACHINE TO UNDERSTAND THE RESOURCE
THE BEST NUT X-RAY & SORTING TECHNOLOGY

Company Profile



www.ifsquareafrica.com





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About Us

IFSQUARE AFRICA specializes in advanced X-ray inspection technology for agricultural products. Established in 2019 and headquartered in Hangzhou, China, we develop cutting-edge solutions that enhance quality control and efficiency in nut processing.

Our flagship Valor Series scanners, including the latest Valor 5, accurately detect internal defects such as insect damage, mold, and discoloration in in-shell nuts like macadamias, almonds, walnuts, and pecans. Designed for precision and automation, our technology helps processors reduce waste, improve productivity, and maintain superior quality standards.



Industries

Powering Quality Control Across Diverse Sectors

- ✓ Agriculture & Farming
- ✓ Nut Processing
- ✓ Safety & Quality Control
- ✓ Export & Import
- ✓ Supply Chain & Logistics
- ✓ Automation & Robotics



“Discover the advantages of our Valor series – precision, efficiency, and durability in every machine.”





ALMONDS

A wooden bowl filled with almonds, with some almonds scattered around it on a dark surface.



MACADAMIAS

Macadamia nuts, including whole nuts and some that are cracked open to show the white, buttery kernel.



WALNUTS

A collection of walnuts with their characteristic wrinkled, brown shells.



PECAN NUTS

Pecan nuts, showing the characteristic ridged shape of the shells and some cracked open to reveal the kernel.





Products | Valour 3

Unmatched Sorting Performance for In-Shell Nuts

The Valour 3 offers the industry's leading sorting capabilities for in-shell macadamias and other nuts.

With advanced X-ray technology, it detects internal defects like insect bites, mold, and discoloration, ensuring only the highest quality nuts make it to market.

Easy to use, safe, and equipped with IoT connectivity for remote upgrades, the Valour 3 sets a new standard in agricultural sorting technology.



Macadamia sorting data:



Insect Bites

Tiny: 50%
Big: 80%
Many spots: >80%



Mold

60%-90%



Shrink

>95%



Core Red

60%-90%



Immature

70%-80%



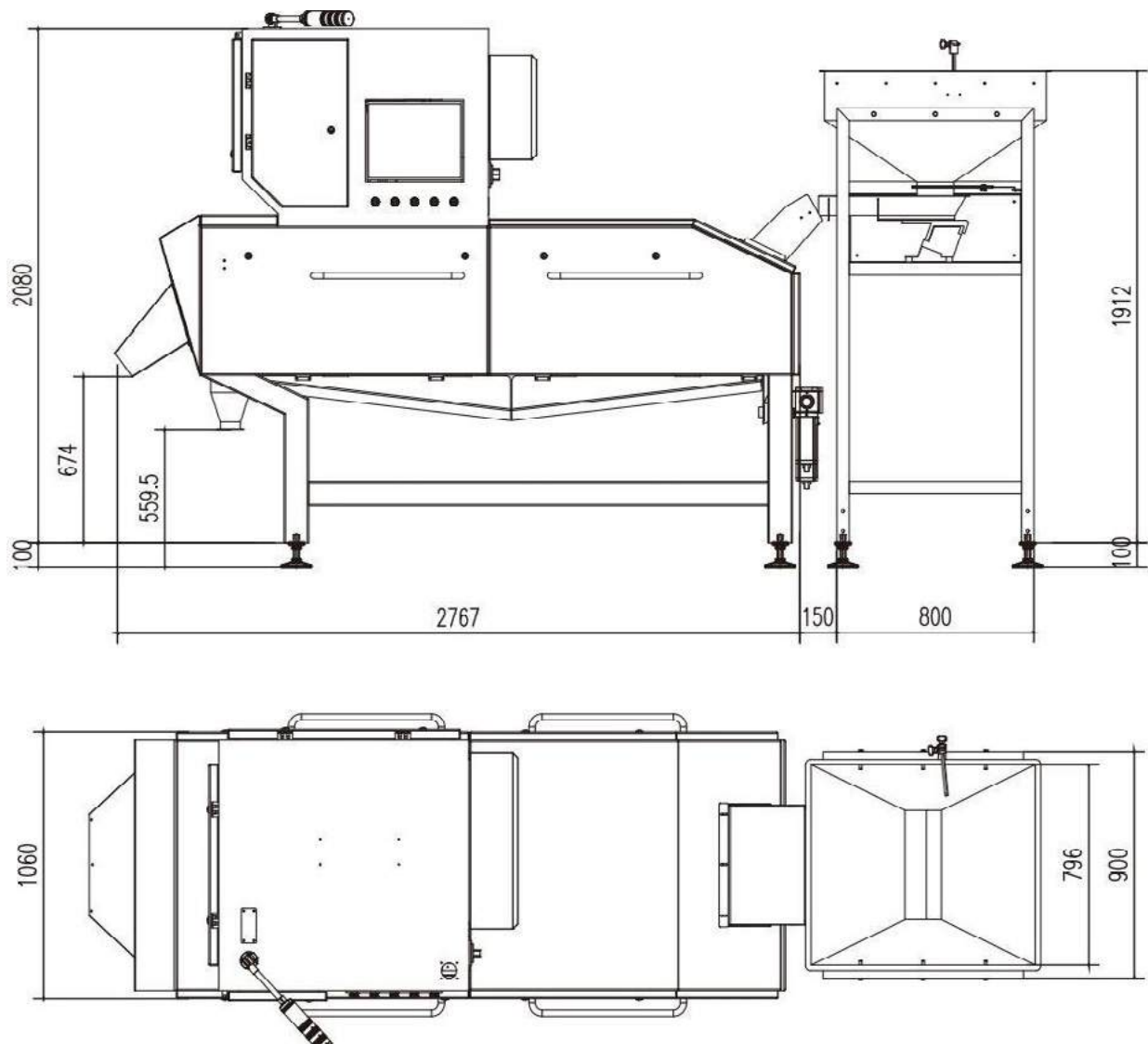
Oil Spot

50%-70%

Raw (by weight)	ACC	GIB (after recycling)	Capacity
Below 3%	Below 0.6%	Below 3%	2-4 ton/hour
Below 7%	Below 1%	Below 3%	
7% - 10%	Below 1.3%	Below 3%	



Valour 3 | Specifications



Production capacity:	2-4ton/hour
Host machine:	2 880 x 2 250 x 1 100mm
Vibration table:	940 x 910 x 2 020mm
Gas consumption:	0.6Mpa
Power consumption:	4.5Kw





Products | Valour 5

Next-Level Sorting for Larger Volumes

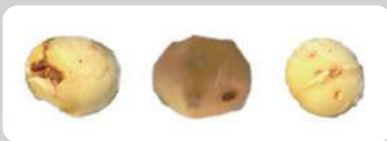
Designed for high-capacity sorting, the Valour 5 delivers exceptional accuracy with its advanced detection system. This machine is also capable to do optical sorting as an advanced added option if needed.

Capable of processing up to 8 tons per hour, it's ideal for businesses looking to scale operations while maintaining superior quality control.

With an intuitive interface and cloud-based support, the Valour 5 makes precision sorting faster, safer, and more efficient than ever.



Macadamia sorting data:



Insect Bites
85% - 95%



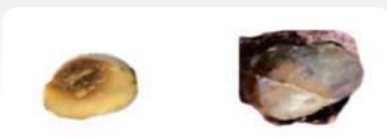
Immature & Shrink
90% - 95%



White & Oil Spot
80% - 90%



Brown Center
Left: 90%
Right: 50% - 70%



Mold
80% - 95%
depending on the level of mold

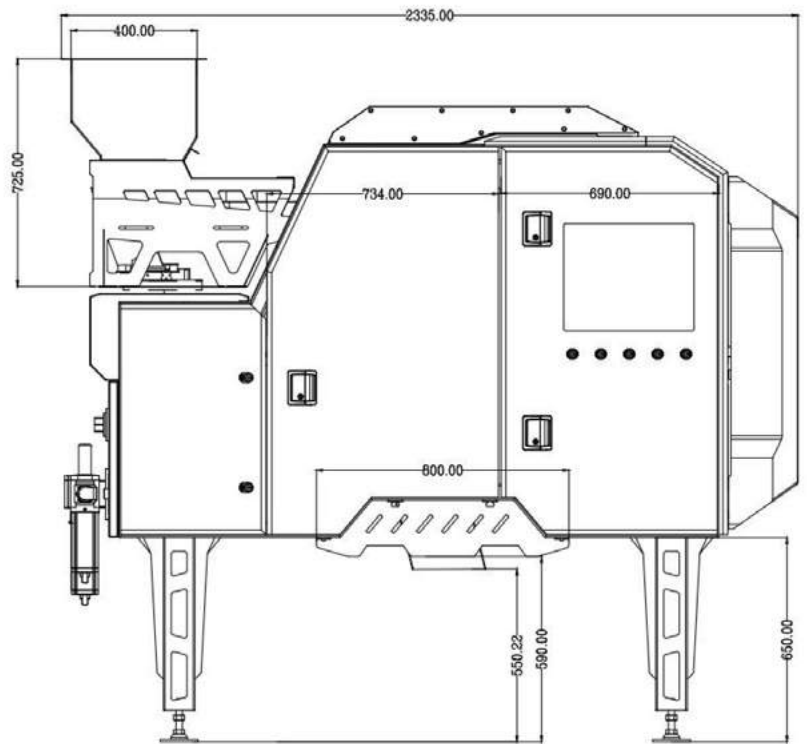
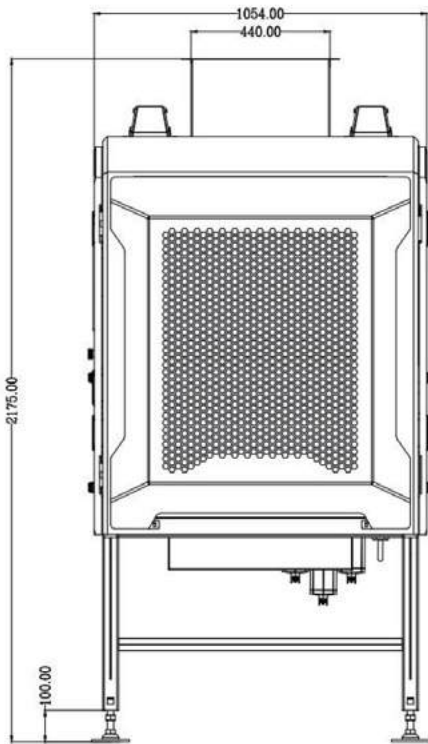


Key Features:

- ✓ High Precision Sorting
- ✓ Easy-to-Use Interface
- ✓ Remote Monitoring & Maintenance
- ✓ Ultra-Low X-Ray Leakage
- ✓ Increased Productivity & Efficiency
- ✓ Robust & Durable Build



Valour 5 | Specifications



X-ray tube	320w
X-ray detector	0.4mm
Maximum detection width	500mm
Maximum detection height	50mm
Working environment	Temperature -20°C ~ 45°C, humidity<90%
X-ray leakage	<0.2usv/h uncovered
Screen	17 inch
Rejecter	96
Production capacity	5-8 ton/hour
Machine material	SUS 304 (3mm thickness)
Sorter size	2 350 x 2 200 x 1 100mm
Infeed hopper size	800 x 730 x 730mm
Air pressure	0.6Mpa
Power consumption	5.5Kw
Power supply	220vac 50hz
IP level	IP55
Machine condition	New







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