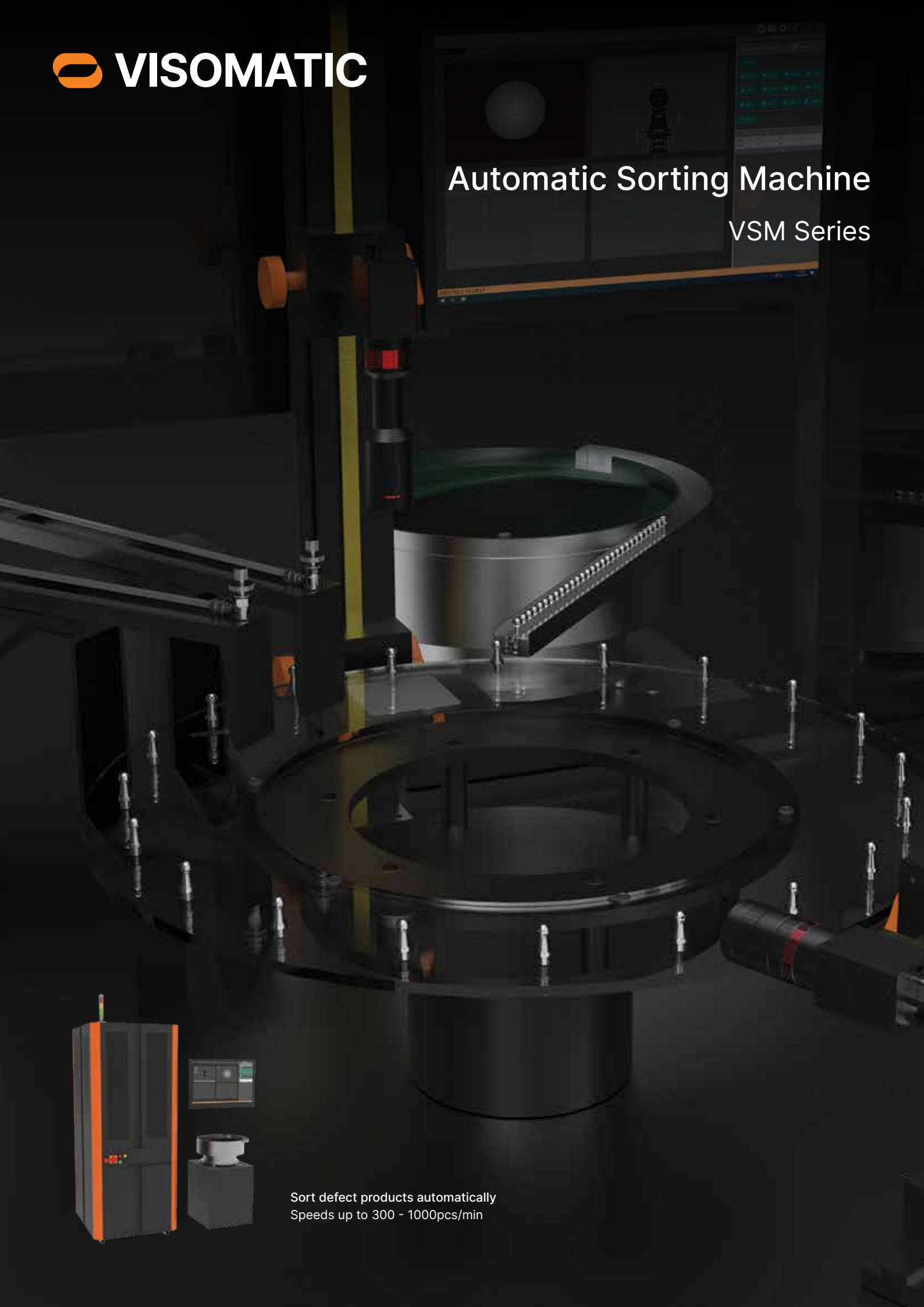




Automatic Sorting Machine

VSM Series



Sort defect products automatically
Speeds up to 300 - 1000pcs/min

About VISOMATIC

High speed industrial CCD cameras

Automatic sorting of product with software

Full inspection with 360° view of product

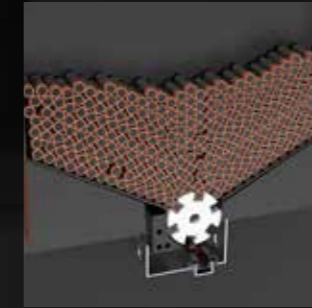
VISOMATIC is a Japanese and Singapore automation company specialising in optical inspection equipment.

With over 30 years in the manufacturing industry, we have experience in the manufacturing processes and understand the importance of a reliable sorting system, working towards Zero PPM.

Therefore, we created a research and development team dedicated to designing and creating automated inspection machines to help companies be more competitive by reducing production cost and increasing efficiency.

Modular and Upgradable

Different loading methods



Different CCD cameras



Selection of CCD cameras available to suit a variety of applications

Pixels	1.35 MP	5 MP	12 MP	25 MP
Stationary Accuracy	Below 5 µm			
Moving Accuracy	Up to 10 µm			
Inspection Speed	300 - 1000 pcs/min			

Versatile solution for any industry

GD&T

Instant measurement of drawing dimensions

Profile / Outer diameter

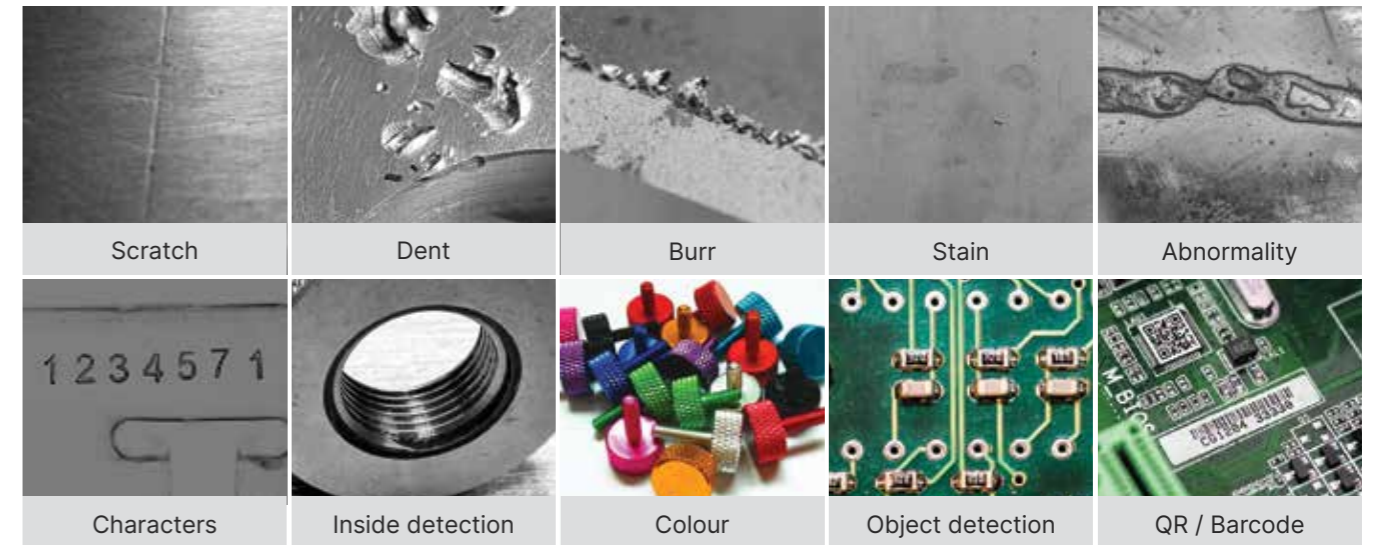
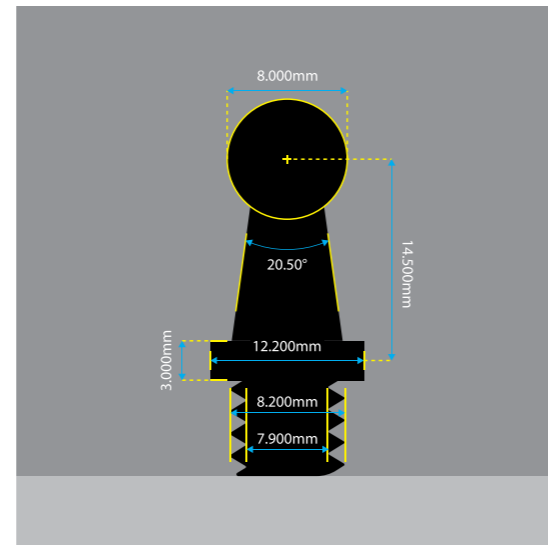
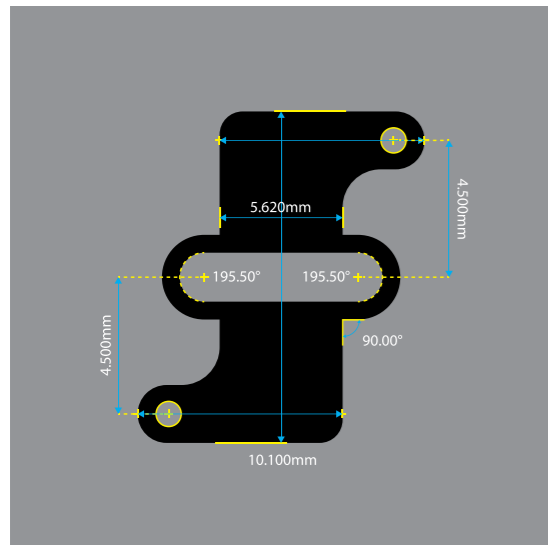
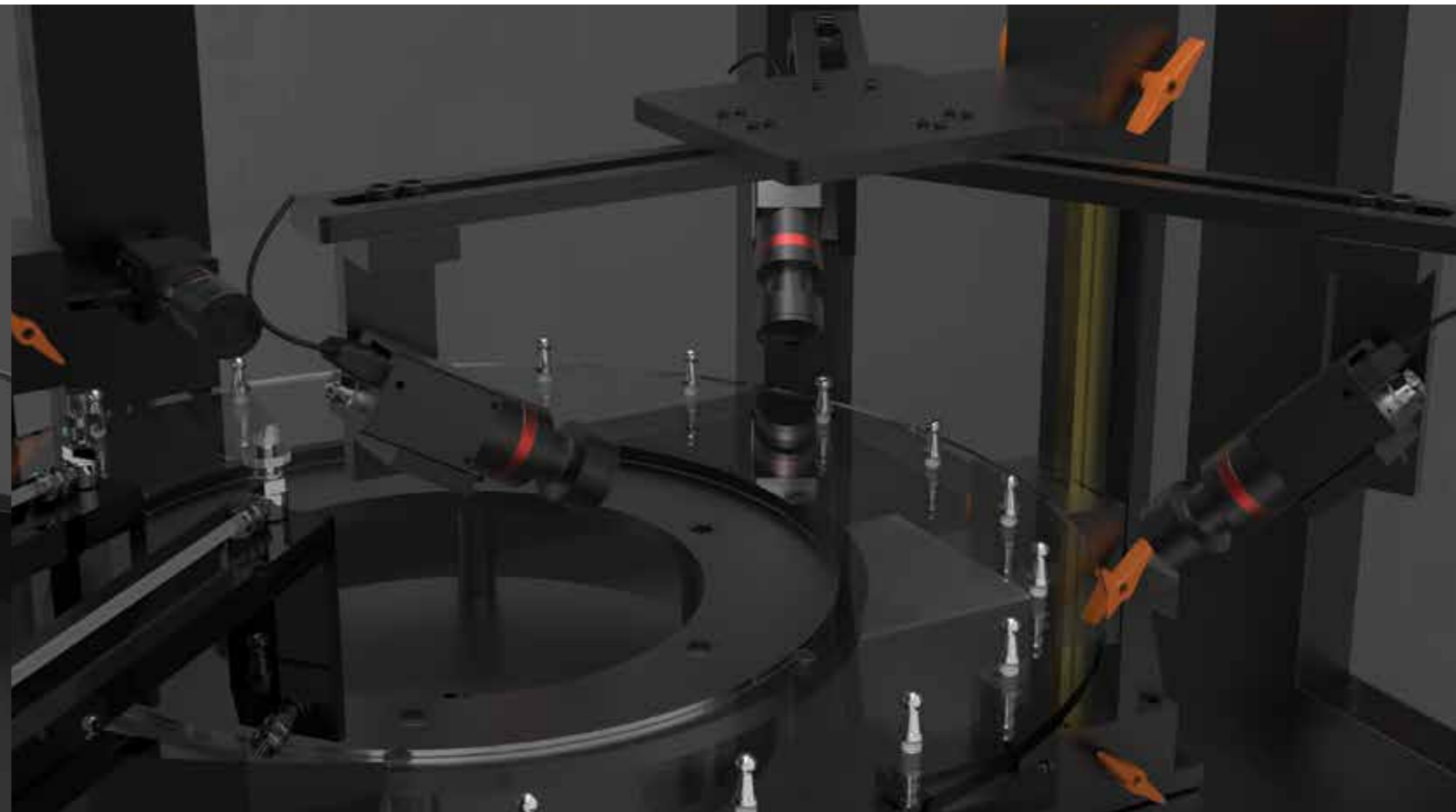
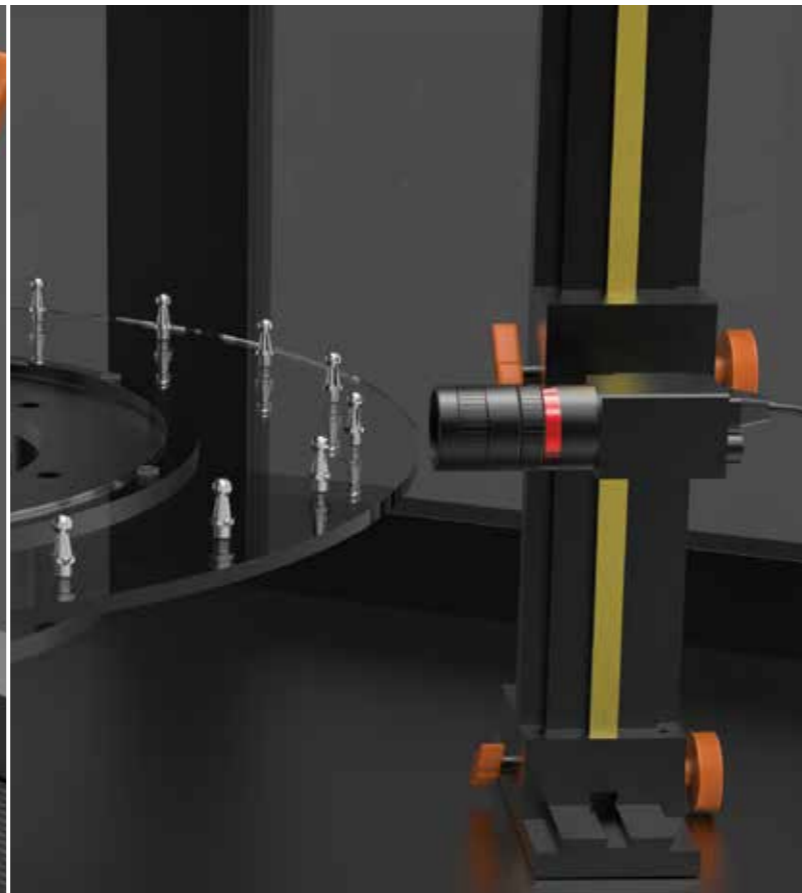
Measure surface profile dimensions such as diameter, height, radius, concentricity, etc

AI Detection

AI learning algorithm to detect abnormalities such as scratches, dents, burrs, stains, colours, etc

360° View

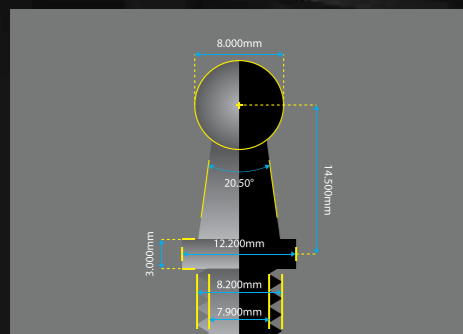
Full 360° view inspection covering all areas by using multiple cameras



Automated sorting with minimal training

Telecentric lens

Low distortion lens provide more accurate measurements



Silhouette or image based analysis

Calibrated to your product needs

Fast and consistent accuracy

The telecentric lens and controlled lighting ensures measurements are accurate and consistent, reducing human error and increasing efficiency.

Modular and upgradable

VSM series machines are reprogrammable and able to change hardware for different products.

Turnkey sorting system

Each VSM machine is calibrated and designed to sort your product with minimal training, allowing you to start immediately.

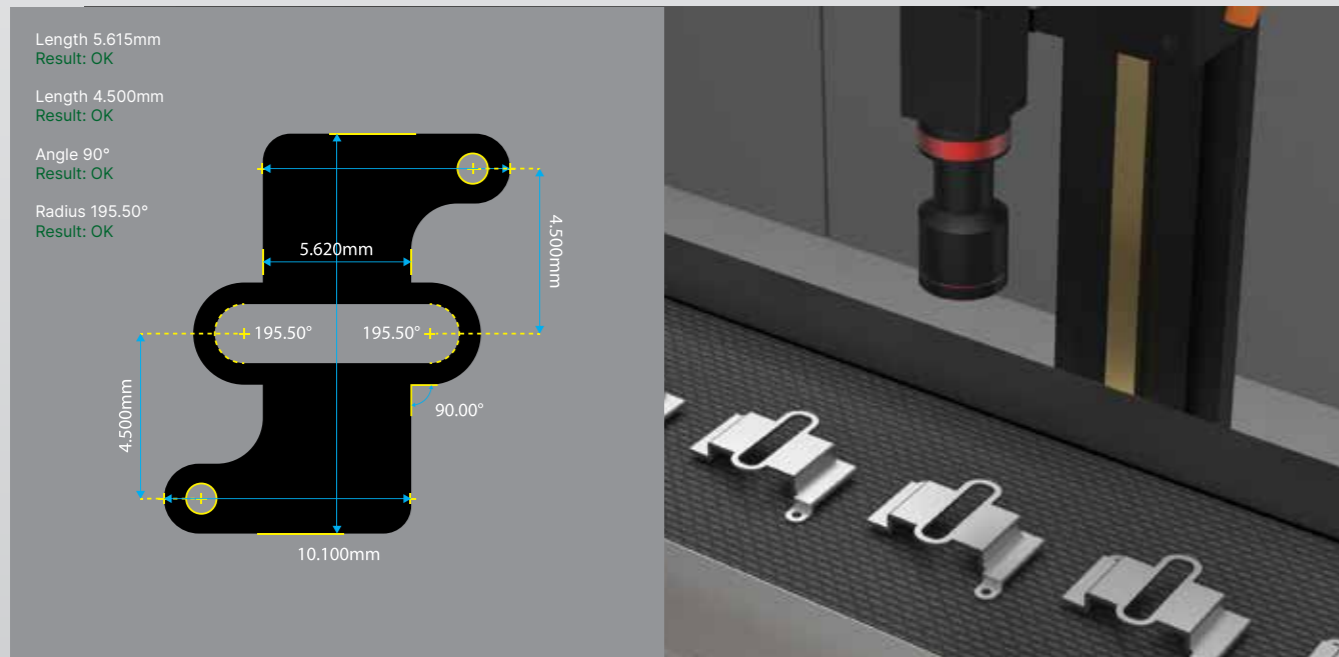
Automatic Sorting Machine
VSM-500 with Bowl Feeder



Fast and consistent accuracy

Reduce human error and increase efficiency

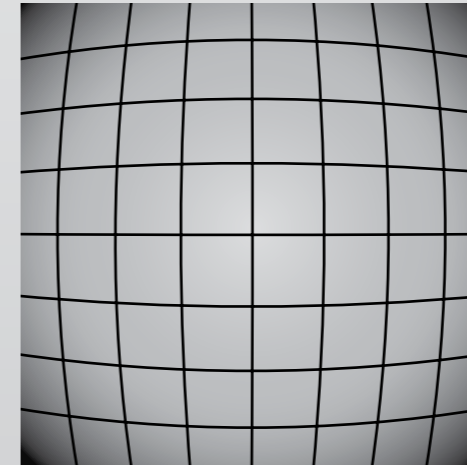
Pairing our controlled lighting system with the use of telecentric lenses, measurements are consistent and accurate. Reaching average checking speeds of 300 - 1000 pcs/minute without worrying about human error caused by fatigue or visual mistake, improving overall efficiency and consistency in quality control.



Accurate results using telecentric lens

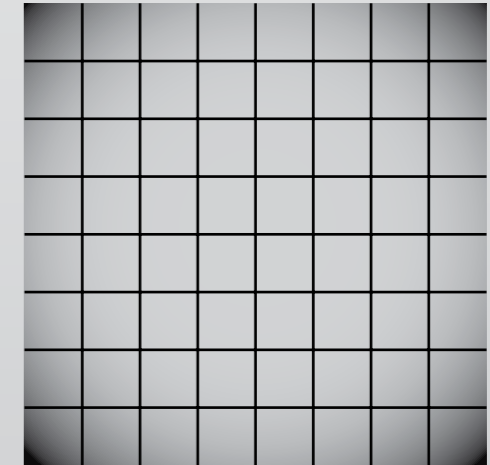
Low-distortion lenses help minimise distortion of the captured image, paired with our controlled lighting system, measurements will be more accurate and consistent.

Conventional lens



Distortion near the edges

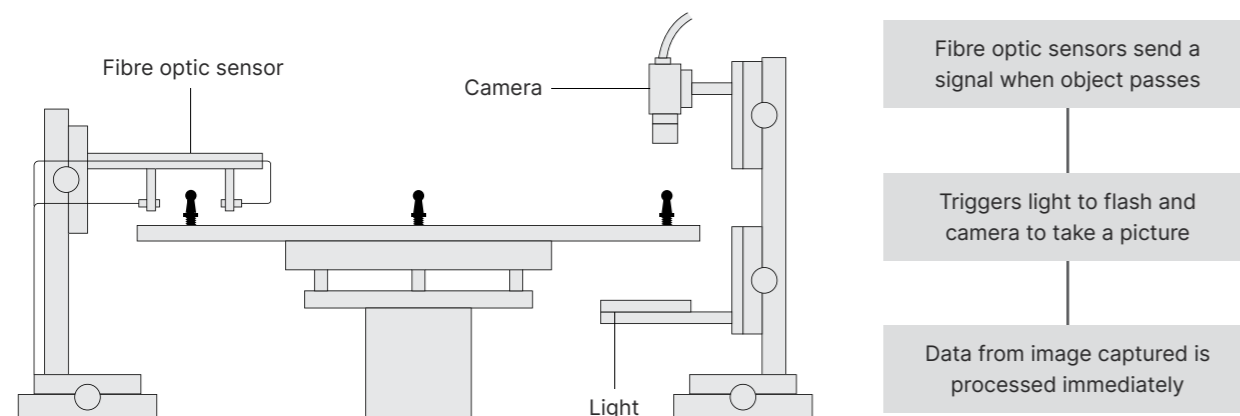
Telecentric lens



Minimal distortion

Controlled lighting system

A controlled lighting system is designed within the machine, resulting in negligible to no effects from surrounding ambient light and thus minimising error during measurements.



Calibration certification

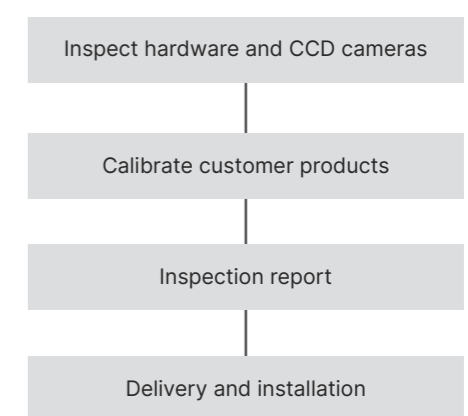
To ensure reliable measurements, VISOMATIC guarantees measurement accuracy and repeatability before the product is shipped and recalibrates again on-site after delivery.



Calibration certificate



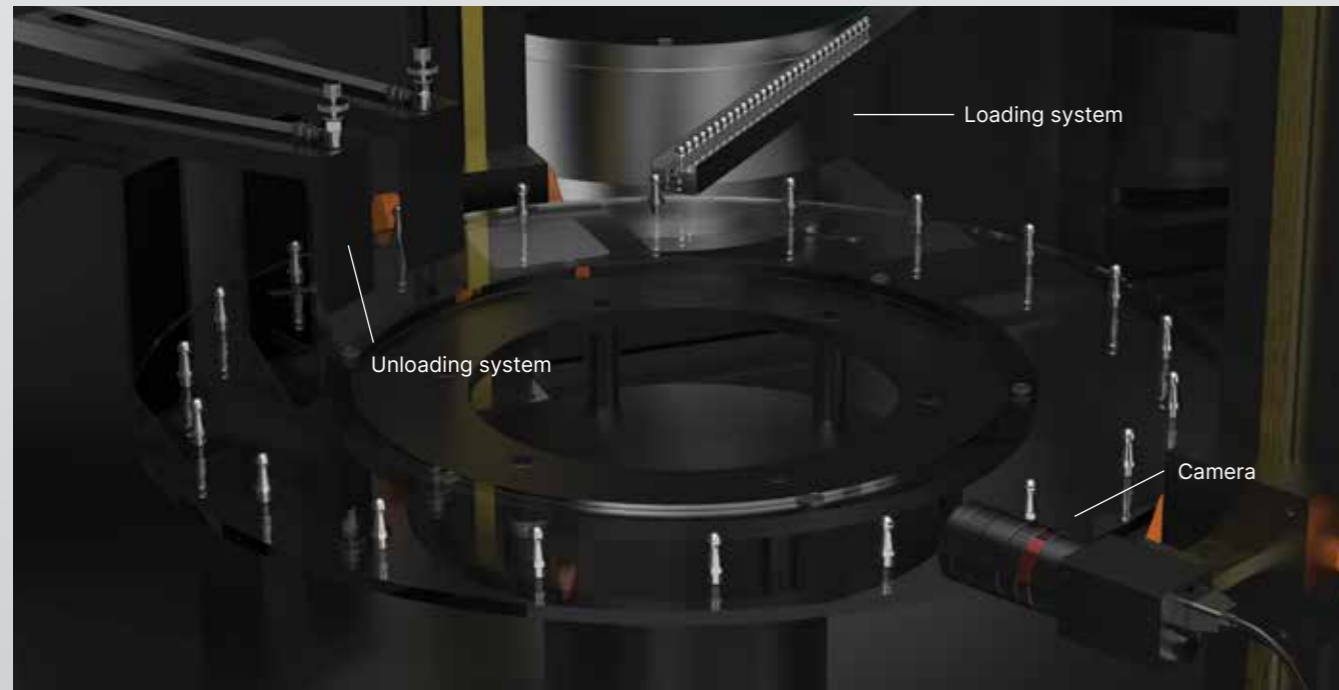
Inspection Report



Modular and upgradable

Reprogrammable and Upgradable

Our modular and upgradable system means your machine will never get obsolete. Our VSM series machines are reprogrammable and able to change hardware for when products reach end-of-life.

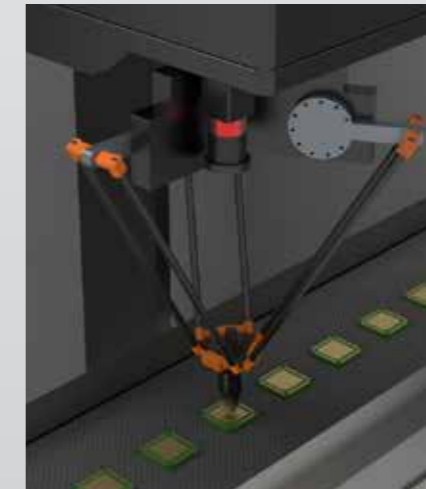


Customised solutions

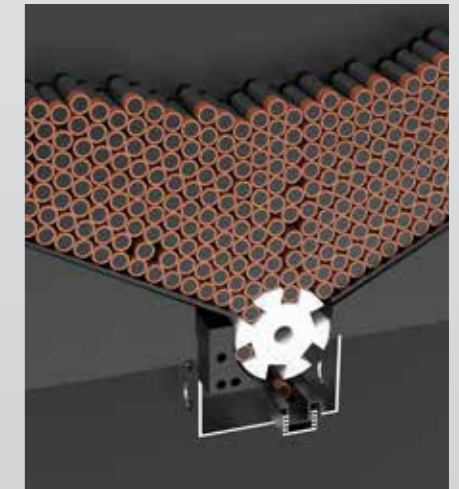
We offer different methods of checking and loading/unloading of products, depending on your product and handling requirements.



Conveyor belt



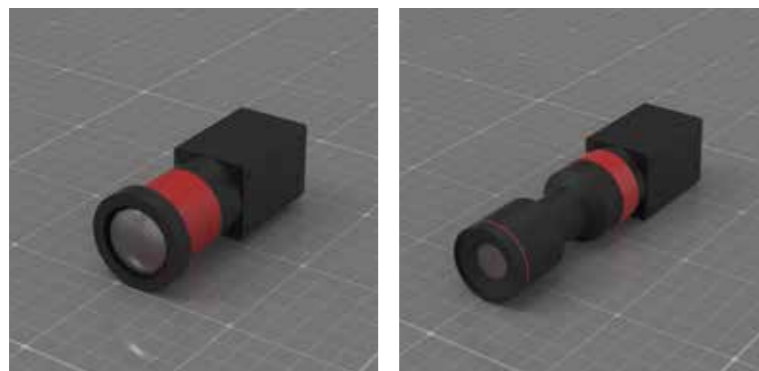
Robotic arm



Hopper

Wide variety of cameras and lenses

Different CCD cameras and lenses can be installed and upgraded to your required needs.



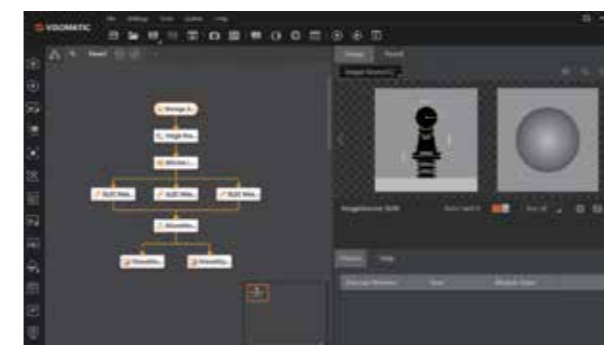
Install up to 8 cameras

1.35 MP | 5 MP | 12 MP | 25 MP

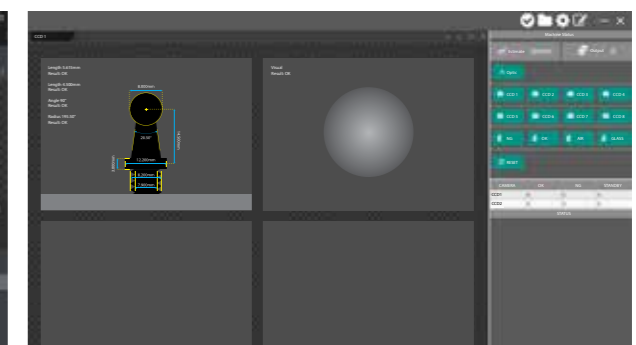
Mono and Coloured option

Flexible software

Software will have preset measurements for your products, where minimal to no training is required to use. It is reprogrammable to measure other parts, or change existing dimensions after revisions.



Software preset to your product so you can start immediately. Easy to change dimensions for revisions.

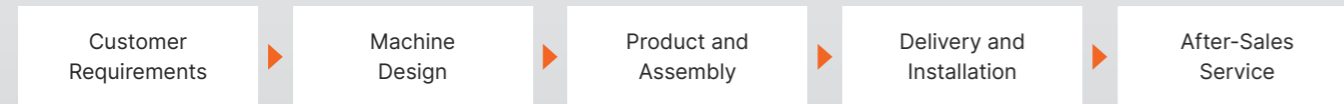


Easy to see how many pieces OK/NG on screen and estimated checking speed and output.

Turnkey sorting system

Designed to use immediately

VISOMATIC provides a turnkey solution to your sorting and inspection needs. Each VSM machine is calibrated, designed and tested to sort your products before delivery, allowing you to start using immediately with minimal training.



Comprehensive after sales service

VISOMATIC provides a comprehensive after sales service with remote assistance on machine, worldwide on-site assistance, yearly calibration requirements, advising and consulting, sorting service and upgrading of VSM machines for other products.

Achieve Zero PPM

Achieving a zero PPM (Parts Per Million) goal is not impossible as long as you have the right systems and measures in place. VISOMATIC aims to help companies achieve this goal with our affordable VSM machines, reducing human error and improving efficiency.

Reduce manpower cost

One VSM machine can check up to 300 - 1000 pcs/min. Running for 10 hours a day can replace up to 5 QC inspection employees. The reduction in manpower cost will provide a quick return on investment.

Industries

List of industries our VSM series machines can service

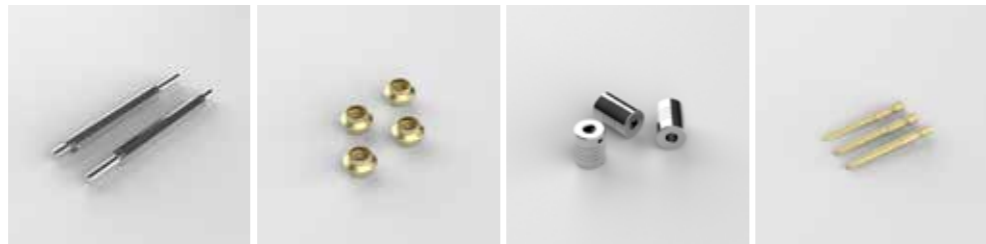
Automotive



Fastener



CNC Machining



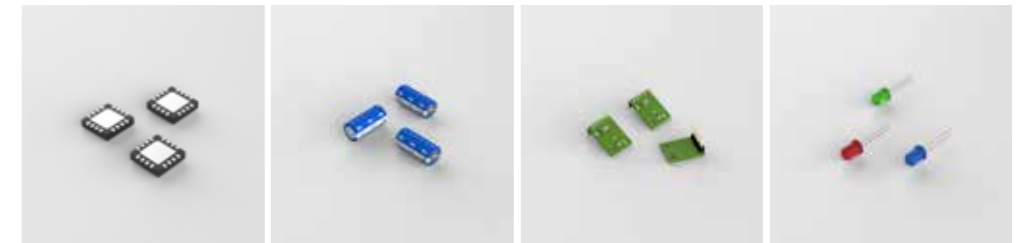
Stamping & Forging



Rubber & Plastic



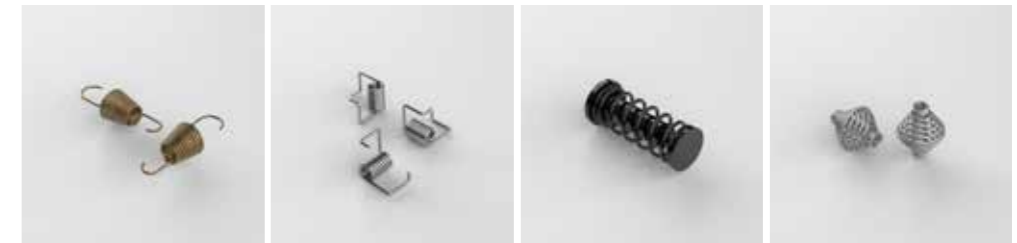
Electronics



Pharmaceutical



Springs



VSM Series Lineup

Standard model VSM-500 Series

Cameras	Max 4 cameras
Accuracy	Below 5 µm (Stationary)
Checking method	Glass plate + bowl feeder
Checking speed	300 - 1000 pcs/min



Large model VSM-800 Series

Cameras	Max 8 cameras
Accuracy	Below 5 µm (Stationary)
Checking method	Glass plate + bowl feeder
Checking speed	300 - 1000 pcs/min



Customised model VSM-X

Customised to requirements



Bowl feeder BF-X

Customised to requirements



Specifications

Model	VSM-500	VSM-800	VSM-X
Cameras	Max 4 cameras	Max 8 cameras	Customised to requirements
Accuracy	Below 5 µm ^{*1}		
Checking method	Glass plate + bowl feeder		
Checking speed	300 - 1000 pcs/min ^{*2}		
Weight	500 kg	600 kg	
Dimensions (L x W x H)	800 mm x 900 mm x 2000 mm	1080 mm x 1080 mm x 2000 mm	
Power supply	220V, 50Hz		
Air pressure	8 - 15 psi		
Operating temperature	10 to 55°C		

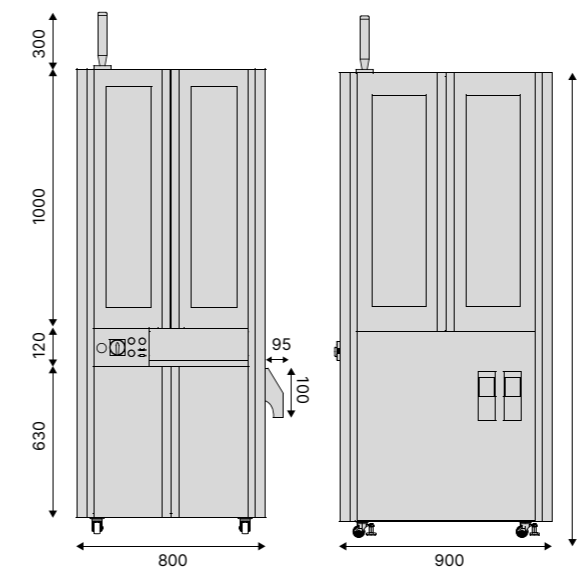
*1 Depending on camera used, speed of checking, stationary or moving.
*2 Depending on part size and tolerance requirements.

Sorting products

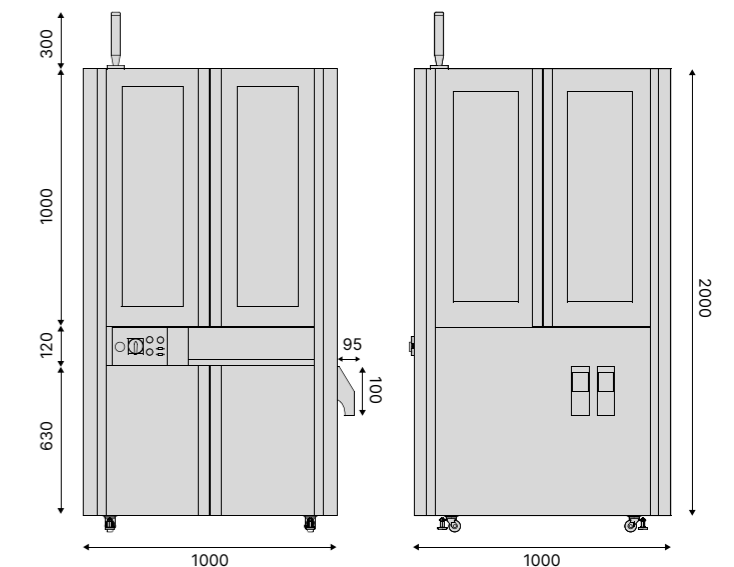
Metal manufacturing	Electrical components	Plastic and Rubber	Others
Nuts, washers, screws, bolts, studs, rivets, pins, fasteners, gears, springs, swivels, bearings, stamping parts, turning parts, milling parts, pistons, rods, shafts, valves, dies, chains, clamps	Mobile phone parts, electrical components, switch sockets, SIM cards, SD cards, HDMI, Cables, LEDs, LCDs, Connectors, Pin heads, Flat pins, Fuse, Batteries, Ring pieces, PTC wafers	Seal ring, O-rings, bottle caps, labels, plastic injected parts, bottles, buttons, switches, syringes, caps, tubes, picking fingers, pipes, valves	Packaging, cartridges, buttons, medicine tablets, stoppers, springs, ceramic products, food and beverages

Dimensions (Unit: mm)

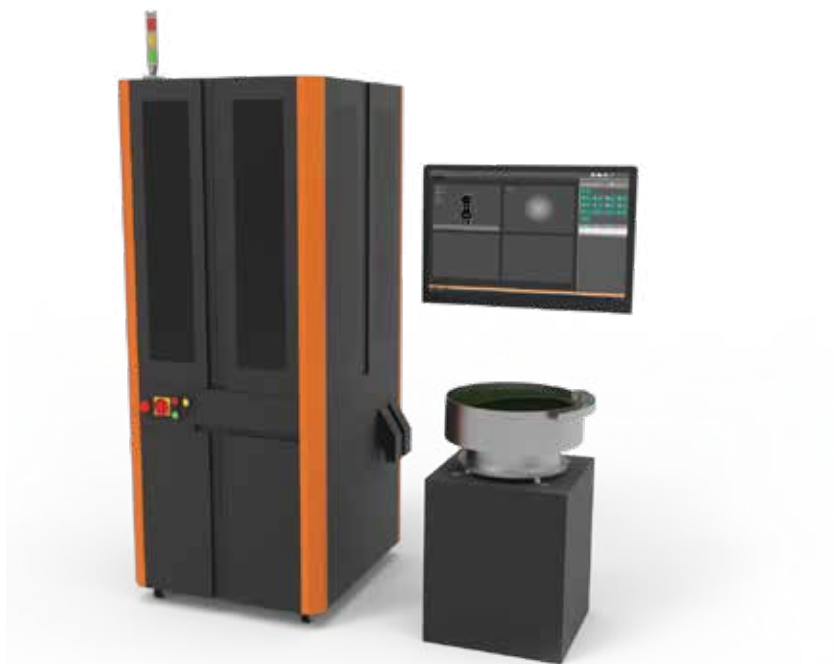
VSM-500 Series



VSM-800 Series



Automatic Sorting Machine VSM-500 Series



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