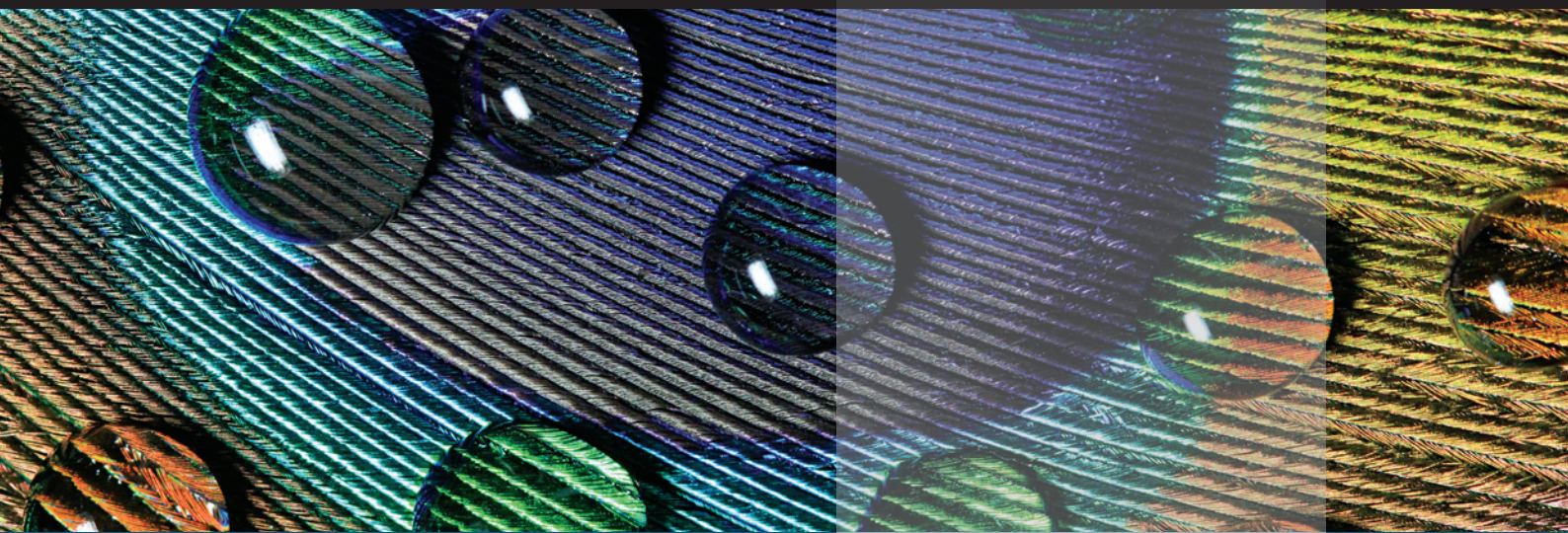




SENSUM



SPINE HYPO

Automatic Visual Inspection
and Sorting of Highly Potent
Tablets & Capsules

Computer
Vision
Systems

SPINE HYPO

Automatic Visual Inspection and Sorting of Highly Potent Tablets & Capsules

Sensum | 02

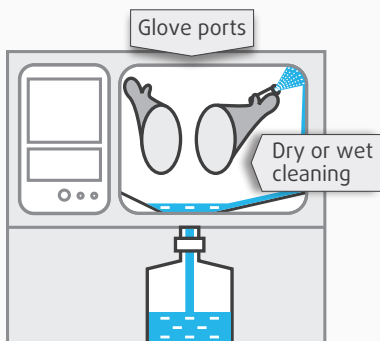
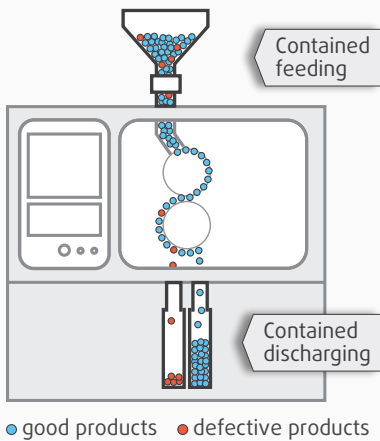
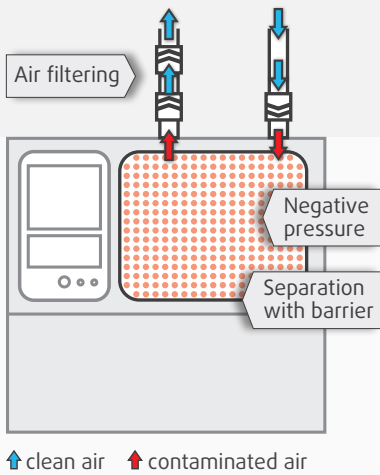


A growing number of highly potent APIs and tightening regulations on operator and environment protection are demanding contained production processes.

Sensum SPINE HYPO machine is designed for contained automatic visual inspection and sorting of highly potent tablets and capsules.

Highlights

- Contained automatic visual inspection and sorting of highly potent products
- Minimization of contaminated parts
- Contained feeding and discharging systems
- Glove ports and RTP for safe access
- Dry cleaning with aspiration
- Wet cleaning for powder binding and wash down
- Ergonomic and tool-free design with IP54 housing
- Same inspection performance as standard Sensum SPINE machine



CONTAINMENT STRATEGIES

Separation of process area with barrier

Separation is a primary containment protection, achieved by inflatable seals, gaskets and silicone sealing.

Negative pressure in process area

Negative pressure is a secondary containment protection, preventing contamination if primary containment protection is broken.

Inlet and outlet air filtering

Inlet air is filtered with protection filter that prevents eventual backflow of contaminated air. Outlet air is filtered with two filters, the first filtering contaminated air, while the second protecting from eventual damage of the first filter.

Feeding and discharging in containment

Contained docking station for feeding and discharging with IBCs containers and continuous liners.

Safe access with glove ports and RTP

Glove ports and RTP are used for safe access and interaction without breaking the containment.

Dry and wet cleaning in containment

Dry cleaning with aspiration enables removal of excessive surface powder. Wet cleaning enables airborne powder binding and wash down.

Technical data

	Application	• Tablets and capsules
	Inspection speed	• Up to 360.000 products/hour
	Inspection performance	• Same as for standard Sensum SPINE machine
	Media connections	• Electrical connection, compressed air, cleaning water
	Dimensions (L×W×H)	• 2000 × 1350 × 2200 mm
	Weight	• 1800 kg
	IP protection of housing	• IP 54



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Specialised in high quality assurance in pharmaceutical industry by integrated computer vision systems.

R&D collaboration with the Imaging Technologies Lab, Department of Electrical Engineering, University of Ljubljana.

30 years of experience in image processing and analysis.