



Human-inspired automated visual inspection for high-mix / low-volume production

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What inspired our vision ...











As of today, roughly 50% of all parenteral drug products are inspected manually.



Can we replace MVI
for high-mix/
low-volume
production?

The solution

How can robotic human-inspired AVI enhance pharma production processes?

 <p>Suitable for clinical production</p>	 <p>Designed for small-scale production</p>	 <p>Works with liquid and lyophilized vials (2R-30R)</p>	 <p>Fully automated visual inspection</p>	 <p>Rule-based and AI algorithms</p>
 <p>Fast recipe development cycle</p>	 <p>Quick format changes</p>	 <p>Very small footprint (2.5x1.15x2.25m)</p>	 <p>Fleet concept for scalability</p>	 <p>System speed of up to 20 vials/min</p>





EVO CAX

EVO CAX functional overview



Technical Highlights

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Product-centric processes for least impact on drug product and CCS



Gentle robot handling
to prevent CCS
damages



Advanced lighting for
reduced energy
impact on the drug
product



Human-inspired
particle mobilization
prevents spinning



Temperature
controlled
environment

ROI Considerations

Labor is cost driver in inspection process

Application field for the EVO CAX

Small Batch inspection

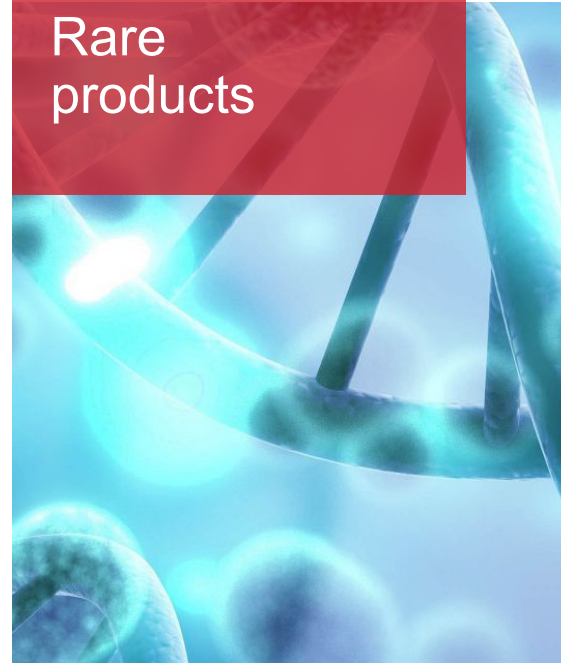
Clinical trials



Eject
inspection of
large scale
AVI systems



Small
commercial
batches /
ATMPs /
Rare
products



Media Fill /
APS
Samples



The vision became reality.

Besides all the technical features and highlights ..

... it looks damn sexy

