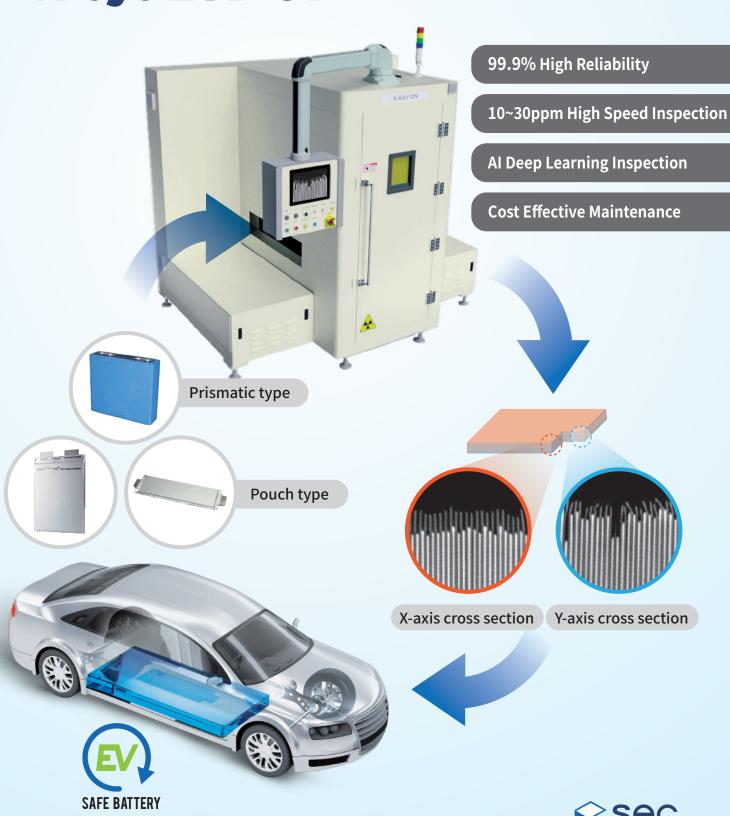
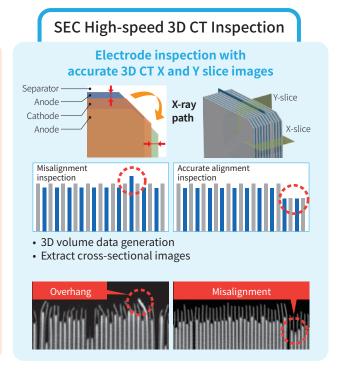
High-speed Inline X-ray Electric Vehicle Battery CT Inspection System

X-eye EVB-CT

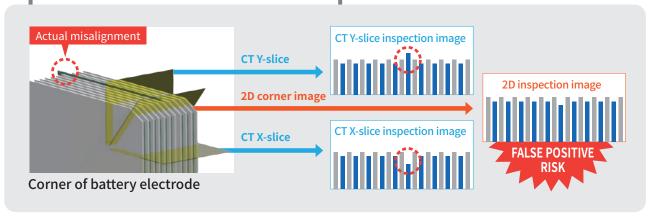


2D vs 3D CT Inspection Comparison

Conventional 2D Inspection Electrode alignment inspection with projected corner X-ray image Separator Anode Cathode Anode V-ray path • Unable to detect the defect due to the limitations of 2D X-ray image → Defect leakage risk

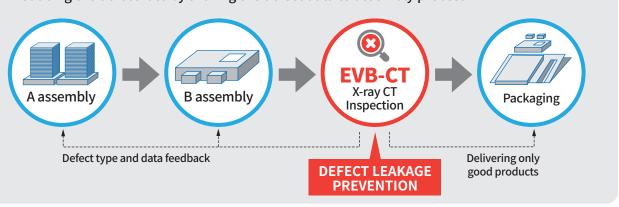


Quality Comparison between 2D and 3D



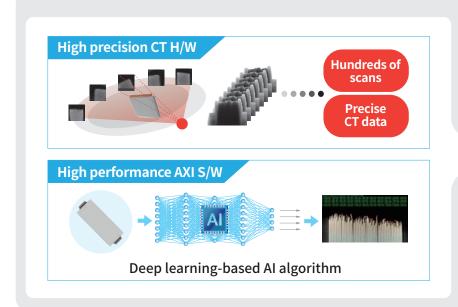
Production Process Feedback

- Preventing defect leakage through accurate 3D CT inspection
- · Reducing the defect rate by sharing the defect data to assembly process



X-eye EVB-CT Features and Key Points

High Reliability Inspection

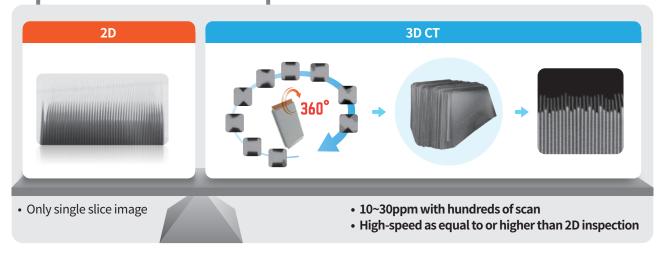


[Inspection Reliability]



Actual data from Inline production and Gauge R&R

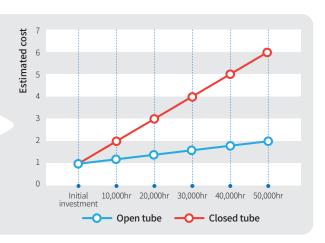
High Speed 3D CT Inspection



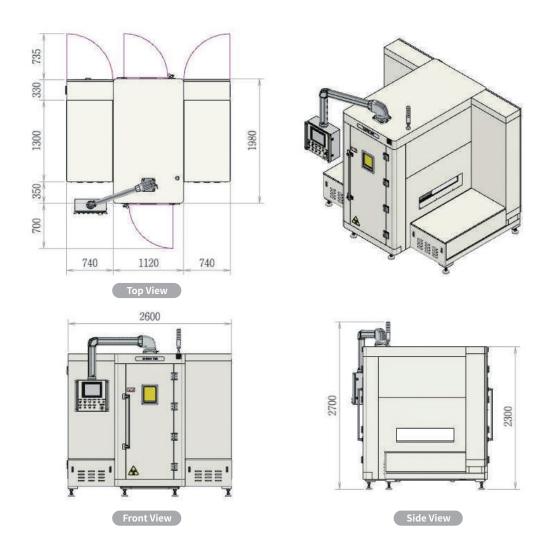
Cost Effective Maintenance



• Cost-effective than Closed tube 2head structure



X-eye EVB-CT Specifications and Layout



Model		X-eye EVB-CT	X-eye EVB-CTL
X-ray Tube	Tube Voltage	240kV(160kV Option)	
	Tube Type	Battery inspection Open tube	
Detector	Туре	FPD (Flat Panel Detector)	
Battery	Size	Min. W110, H95, T3	Max. W340, H160, T12
		Min. W510, H75, T7	Max. W600, H110, T12
Cycle time		2 to 6 cells(10ppm ~ 30ppm), Depends on thickness and inspection point	
Hardware	Machine	W2,600 x D2,000 x H2,250 mm	W3,300 x D2,650 x H2,250 mm
	Weight	About 5,000kg	About 8,000kg
	Power	220 V / single phase	
	External Leakage Dose	<1uSv/h	
	Loader, Unloader	Option	
AXI	Scope	Electrode alignment, distance, count	
	Inspection Tool	3D CT inspection + AI deep learning inspection S/W	



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