

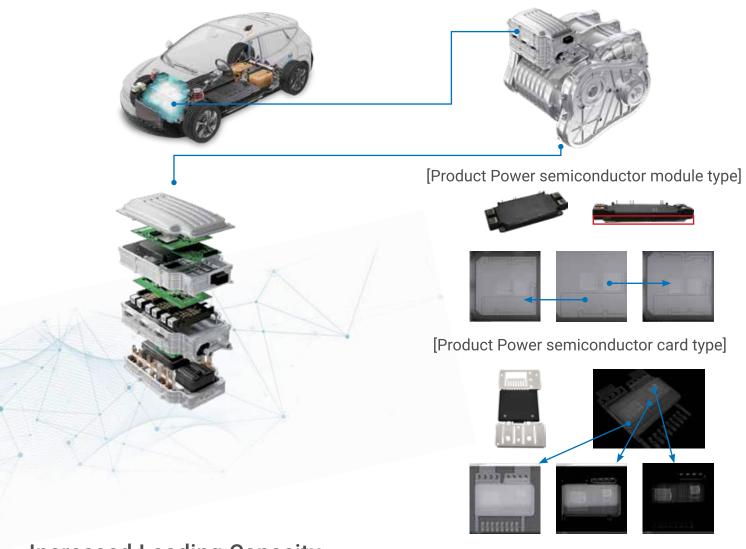
# The Automated In-Line Heavy Capacity CT X-Ray Inspection System



## Specifically Designed to Meet the Inspection Needs of the EV Industry

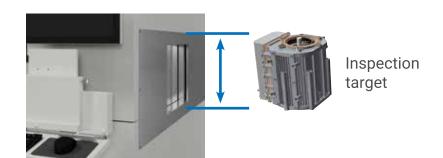
#### **High Powered X-Ray Tube**

A closed X-Ray tube enables better contrast and imaging for thick applications such as Insulated Gate Bipolar Transistors (IGBTs), EV Power Modules, and eAxle assemblies.



#### **Increased Loading Capacity**

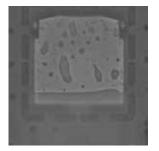
The VT-X850 is specifically designed with reinforced conveyors, powerful motors, and larger doors to effortlessly handle heavier samples, such as IGBTs and eAxle modules.



#### **AI Enhanced Inspection Algorithms**

By harnessing advanced AI image analysis techniques, the automated inspection logic effortlessly identifies and highlights defects, enabling operators of varying skill levels to easily comprehend and interpret the results.

Raw X-Ray Image

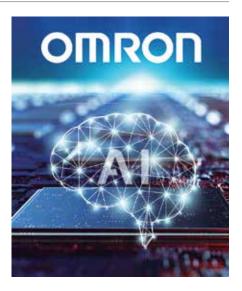


**Default Logic** 



Al Enhanced Logic



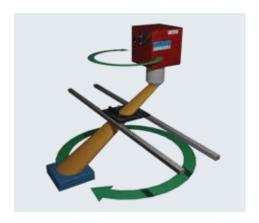




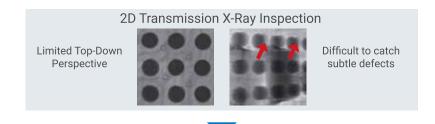
#### Benefits of OMRON 3D CT X-Ray Technology

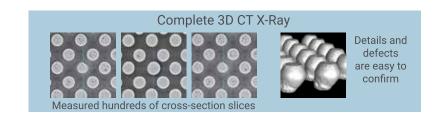
#### The OMRON CT Advantage

Fast cycle-time paired with a full set of automatic solder measurements provide complete, 3D, in-line X-Ray inspection.

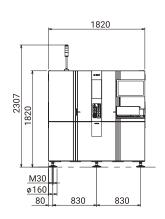


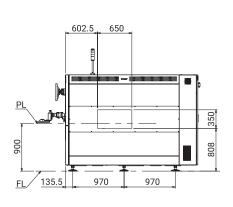
## CT provides industry-leading image quality and defect detection

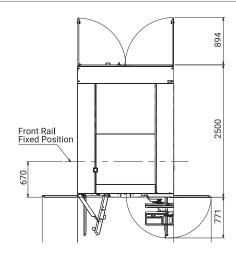




### **Outline Dimensional Drawing**







#### Hardware Configuration/Functional Specifications

Item		Description		
Model		VT-X850		
Туре		T1	T2	ТЗ
Inspection object		Power devices, etc.	Power device,Inserted components, Press-fit,Connectors,etc.	Inserted components, Press-fit,Connectors,etc.
Inspection items		Voids, bridges, through-hole solder filling, foreign matter/solder scraps, presence/absence of leads, etc. (selectable depending on the object to be inspected)		
Imaging system	Imaging system	3D-slice imaging by using parallel CT		
	Imaging resolution	15,20,25,30µm Selectable by inspection target	25,30μm Selectable by inspection target	
	X-ray source	Micro-fucus closed tube		
	X-ray detector	Flat panel detector		
Inspection target	Workpiece size	150×100±0.2 ∼ 610×400±0.2mm	150x100±0.2 ∼ 610x515±0.2mm	
	Workpiece thickness	1.00mm~5.00mm		
	Workpiece weight	Less than 40.0kg		
	Workpiece height*	90mm	230mm (Optional: 265mm)	335mm
Main body	Dimensions	1,820 (W) ×2,500 (D) ×1,820 (H) mm (excluding protrusions, signal towers, and displays)		
	Weight	Approx. 5,500kg		
	Conveyor height	900mm±20mm		
	Power supply	Single phase 200/208/220/230/240 VAC, 50/60Hz		
	Rated power	3.3kVA		
	X-ray leakage	Less than 0.5 μSv/h		
	Air supply	0.4~0.6MPa		
	Safety standard	CE,UKCA,KC * Acquiring		

<sup>\*(</sup>including the sum of top and bottom, warp, deflection, and internal board)

- The application examples described in this brochure are for reference only. Please check the functions and safety of the equipment before using it
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