



Cambrion
VISION

Cambrion














Cambrian is an AI-based 3D-vision

for collaborative and industrial
robot arms


TRANSFORMING INDUSTRIES FROM AUTOMOTIVE TO FASHION

Industries

-  Automotive
-  Aerospace
-  Education, research
-  Pharma, Chemistry
-  Electronics & Technology
-  Metal & Machining
-  Whitegoods & Home Appliances
-  Agriculture
-  Food and Beverage
-  Fashion
-  Consumer goods

Example Use Cases




 Pick and place



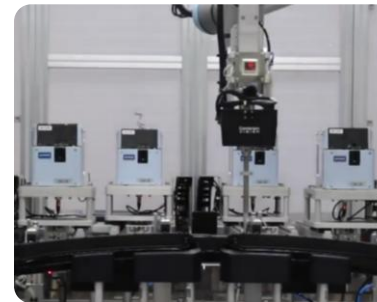
 Binpicking



 Feature detection




 Assembly




 Machine tending





 Cable, wire harness assembly


WHY CHOOSE CAMBRIAN?

Boost Profits


 Automate previously impossible tasks


 Achieve flawless repeatability, eliminate errors

 Reshore manufacturing while cutting costs


 Save floorspace by optimising footprint


Maximize Uptime


 Extend productive hours while reducing stoppages

 Enable true lights-out manufacturing

Gain Piece of Mind

 Eliminate labor shortage concerns







 Faster ROI than competing solutions

 One-time payment—no subscriptions



Achieve full ROI in just 1-1.5 years, then pure profit generation

SUPERIOR PERFORMANCE WITH REDUCED COSTS

	Cambrian	Traditional 3D vision system: (laser, infrared or structured light)
 Robustness for light conditions	Robust	Fails in strong lighting conditions; needs to be guarded against indirect sunlight.
 Inference speed	0.15s (7x faster)	~1-1.5s
 Accuracy	< mm	> Few mm
 Cost	\$	\$\$ - \$\$\$
 Transparent, shiny, tiny parts	Excellent performance	Poor performance or no detection
 Detect flexible, deformable and jointed parts	Excellent performance	Poor performance

HOW CAMBRIAN 3D VISION WORKS

STEP 1

Cambrian captures images and passes these to the AI model.



STEP 2

The AI model returns poses (x, y, z, a, b, g) for the parts.



STEP 3

Path calculation with collision avoidance and the execution of the pick.

Cambrian



INDUSTRY LEADERS TRUST CAMBRIAN

TOYOTA Kamigo plant (engine shop)



"Cambrian has the best technology that improves weaknesses for vision. The most valued aspect is its Easy-to-Use feature. We believe such technology will become necessary for use in production lines in the future. From now on, flexibility in the production line will be necessary for a mobility manufacturer. I believe Cambrian will make production line planning easier."

Electrolux Group



"Although in our factories we have a high level of automation, we still have an important quantity of flexible components and manual processes which add variability. **Cambrian helps us to keep moving towards a more automated manufacturing reality but being able to deal with this human or variable scenarios".**

Jaume Soriano Electrolux Group

SUZUKI HQ (Engineering Machinery Unit)



"Cambrian can contribute to cost reduction in equipment expenses. For small car production, cost is one of the most critical factors. **We believe that using Cambrian could reduce equipment expenses by more than 20%."**

Volkswagen Group



"The cutting-edge technology of the **Cambrian system definitely pushes the boundaries of what is possible with robotic automation".** *Juan Mauricio Toro Ramos Volkswagen Group*

OUR CUSTOMERS

Cambrion



Automotive



Automotive



Automotive



Appliances



Industrial components



Fashion



Automotive




Automotive




Automotive



Electronics



Optics




Research



Motorcycle



Automotive




Automotive



Telecommunications
Equipment



Pharma



Aerospace

CAMBRIAN IN ACTION




[Watch Video](#)

 End customer: **KAO**

 Geography: **Japan**

 Industry: **Consumer goods**

 Payback time: **15 months**


Use case: Feeding cosmetic containers. Low volume – high mix environment.




[Watch Video](#)

 End customer: **PS Leuchten**

 Geography: **Germany**

 Industry: **Electronics**


 Payback time: **26 months**

Use case: Fully automated assembly of a multipart LED-lamp.



[Watch Video](#)

 End customer: **Undisclosed**

 Geography: **South Korea**

 Industry: **Automotive**

 Payback time: **20 months**

Use case: Assembly and screwing of an automotive component



INTERESTED IN KNOWING MORE?
Please reach out to us to set up a meeting:

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 cambianrobotics.ai