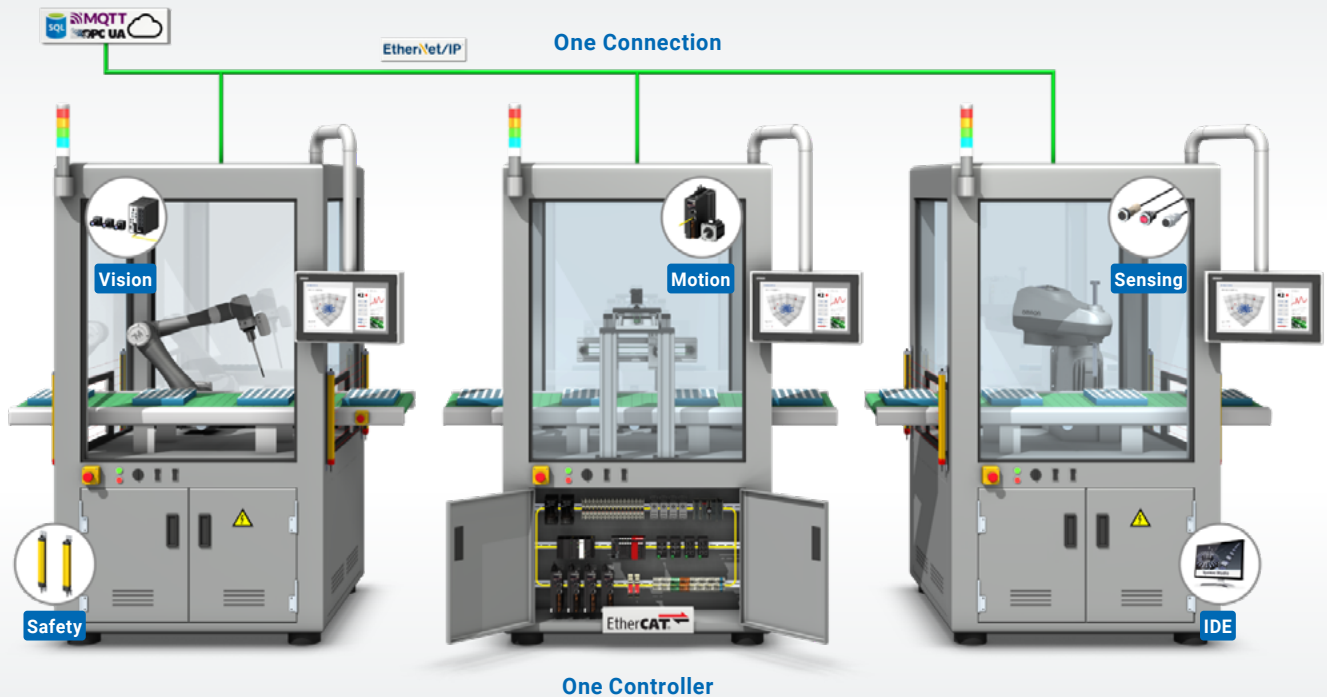


Automating key functions in Assembly Applications



What are Joining applications?

Joining applications play a crucial role in assembling components, parts and end products. The industry demand is to have reliably and efficiently made marriage of parts across a wide range of manufacturing environments.

Techniques such as screwing, welding, and press fitting provide different strengths and tolerances to suit specific material and design requirements. Screwing offers flexibility and ease of disassembly, making it ideal for maintenance-intensive systems. Welding creates permanent, high-strength bonds that are essential for structural integrity in heavy-duty applications. Press fitting enables fast, clean, and precise assembly without additional fasteners, supporting high-volume production with minimal variability.



Control



Comms



Motion



Robotics



Vision

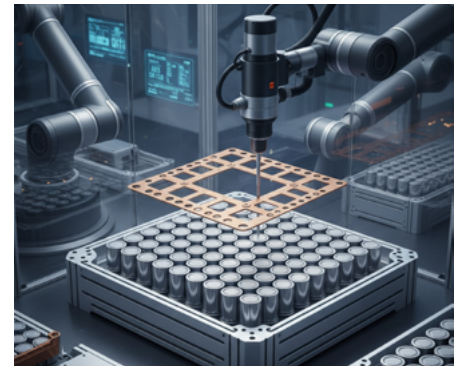
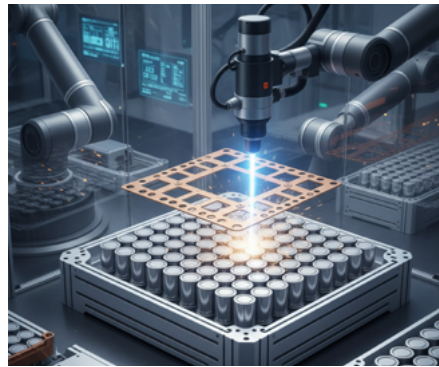
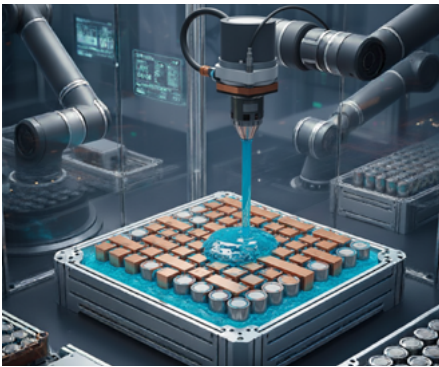
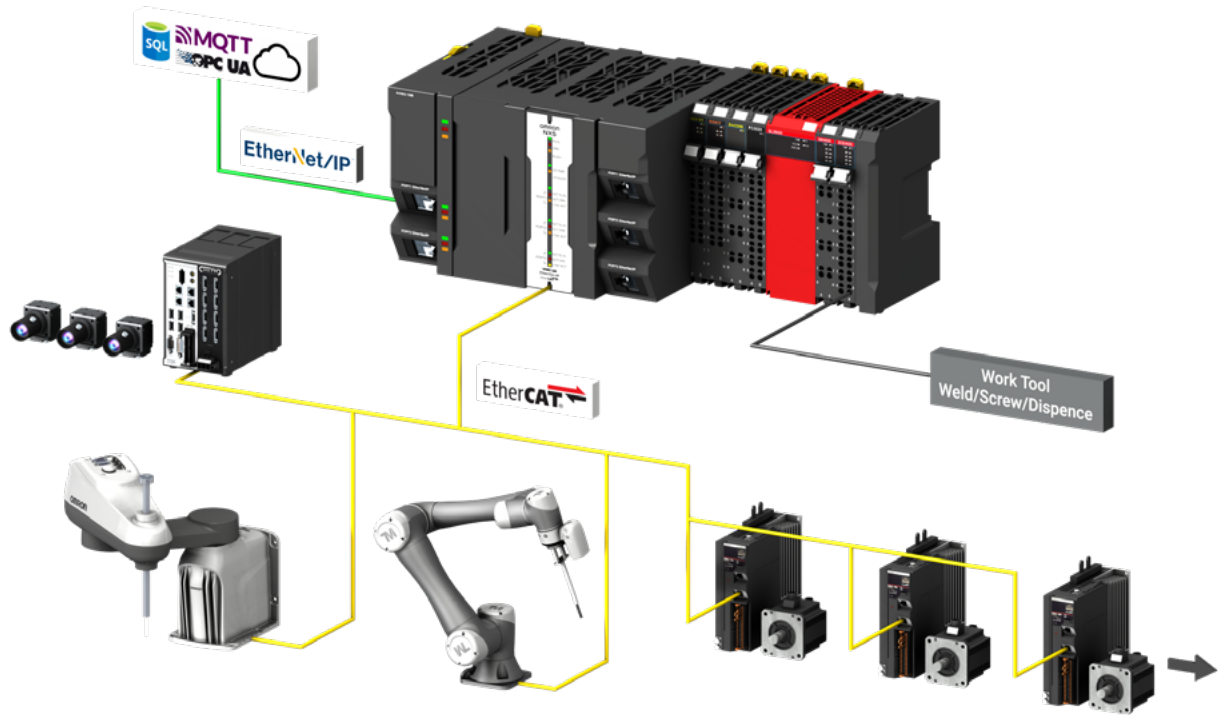


Safety

Would you like to know more?

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Typical Architecture



OMRON offers the automation to control the tools used in these applications like screwdrivers, welding torches and alike. The quality of the joint can be integral inspected with our vision solutions, and you keep your worker safe and the productivity high with specialised safety solutions.

Features & Benefits

- Experience in positioning work-tool and work-piece applications like Screw, Press Fit and Welding.
- High Speed, High accuracy advanced welding is available using PMAC advanced welding control
- Integrated controller solution for positioning, alignment, inspection and safety
- Open comms on Controller to talk to "Application tools" (e.g. glue gun).
- Inspection solutions to perform in-line quality check.
- Function blocks for Motion (positioning, screw fitting, and many more).

Would you like to know more?

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Find out more:

