A-02 COBOTTA PRO



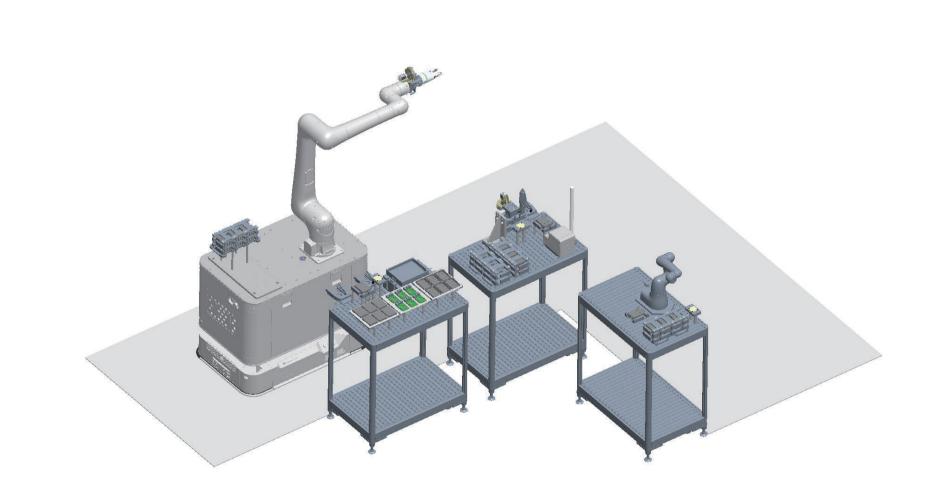
Automatic Transport/ Assembly System Utilizing AMR

 By installing the COBOTTA PRO in an AMR (Autonomous Mobile Robot), it can autonomously travel inside the multi-process, enabling automation of wide range of work.

Collaborative robots runs autonomously in the process and multi-process work can be automated over a wide range.

Combining a collaborative robot that can work in the same space as people with AMR enables automation over a wide range. Flexible automated systems can be built to match existing equipment and factory layouts.

Since the robot can move to various processes and switch tools for different tasks, a series of operations can be automated from part gathering to assembly and discharge.



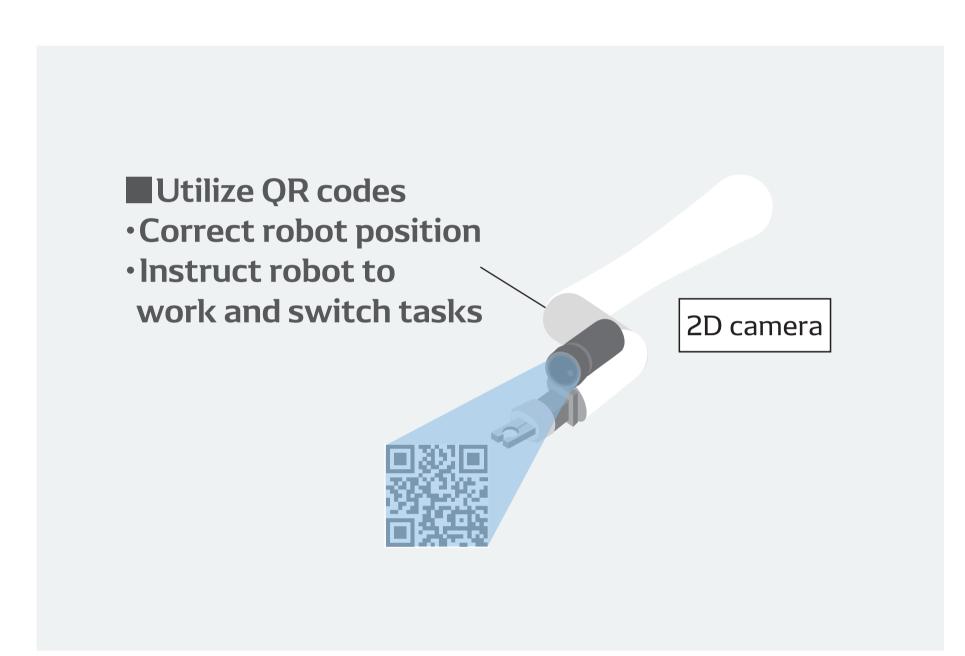
Utilize QR codes to correct the robot position and switch work *Scheduled for release

A QR code attached to the destination work table is recognized to automatically calibrate the robot coordinates based on a coordinate system.

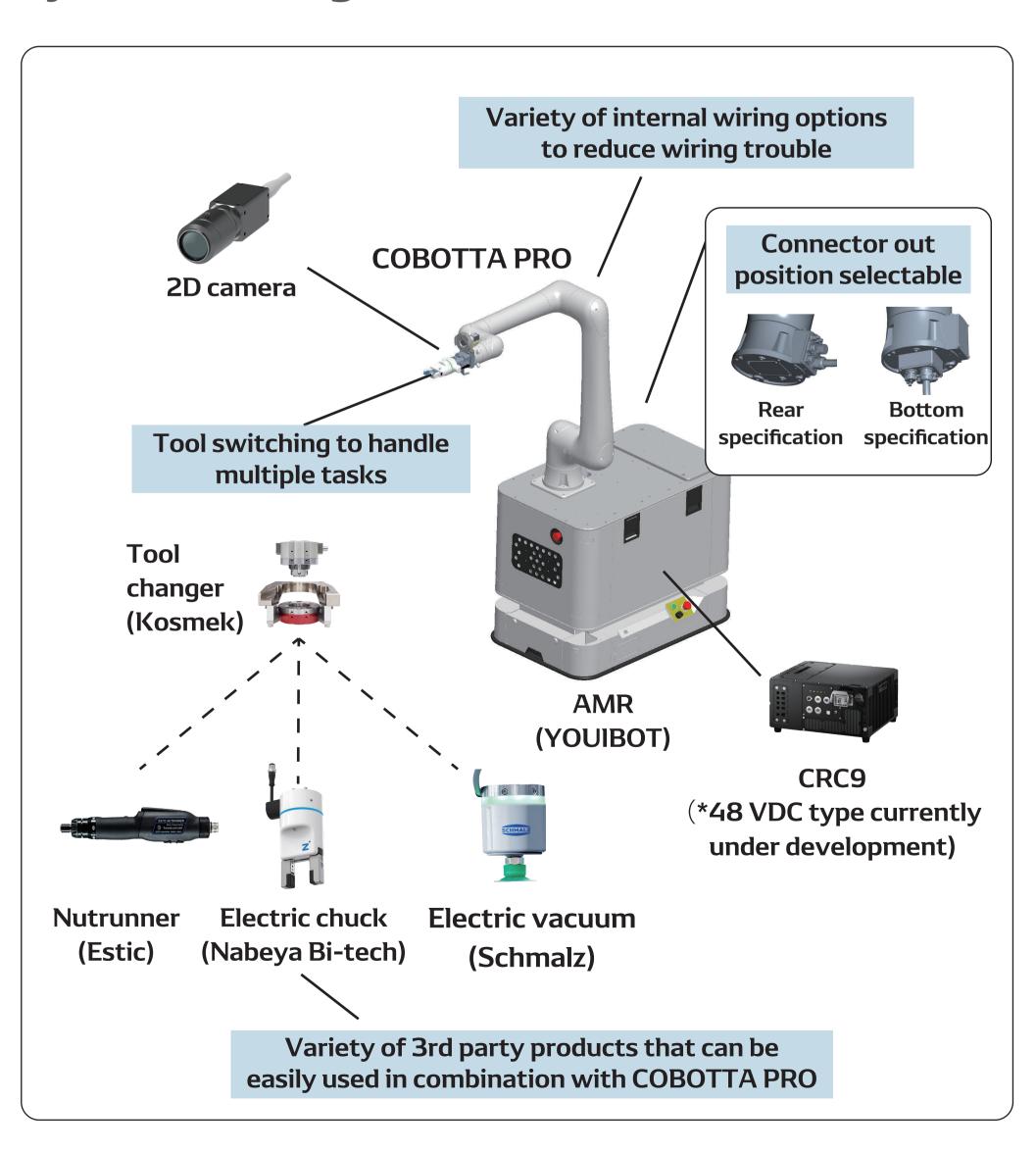
Even if the relative position of the AMR and work table changes, the coordinates can be calibrated by recognizing a QR code without reteaching.

With QR code, information can be added and work instructions can be assigned to the robot.

- If there is an operator: Transport completed product
- If there is no operator: Perform screw tightening



System Configuration



Work Process

- An AMR with COBOTTA PRO moves to the kitting station.
- A QR code on the kitting station is recognized (QR calibration is performed) to calibrate the coordinates.
- The substrate, heat dissipation sheet, and cover are assembled.
- An AMR with COBOTTA PRO moves to the screw tightening station.
- A QR code on the screw tightening station is recognized (QR calibration is performed) to calibrate the coordinates.
- A QR code is recognized (QR calibration is performed) to retrieve information on whether an operator is present.
- If there is an operator, transport the completed product. If not, perform screw tightening.
- An AMR with COBOTTA PRO moves to the completed product discharge station.
- The completed product is discharged