



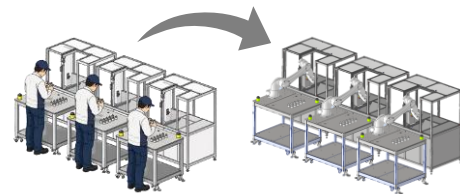
Mobile robot capable of automatically switching tools to perform multiple tasks

Mobile Robot: **VIVACE**

On-Site Challenges for Factory Automation



- Lack of space for items and robots
- High investment needed to automate multiple processes



Daihen's VIVACE mobile robot resolves these issues!



Collaborative robot



(made by Daihen)

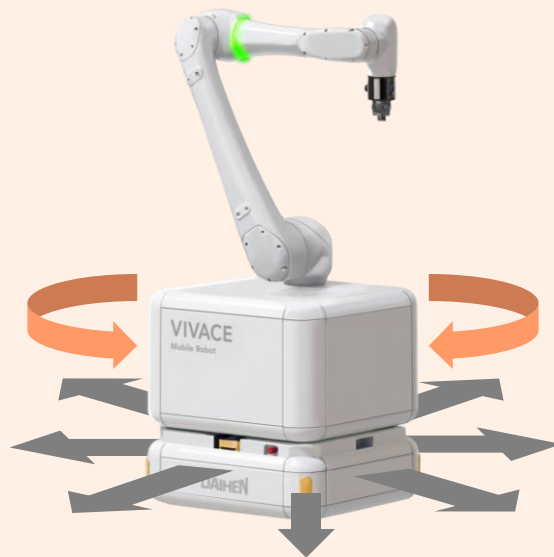
Transport robot



(made by Daihen)

VIVACE mobile robot

Integrated system design



Omnidirectional movement

Tool changer



Wide range of tools



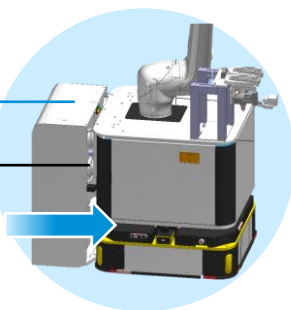


VIVACE

Multi-functional station

Docking mechanism

Power and air



Features

- Moves autonomously to **multiple work locations** and operates without **safety fencing**.
 - Can be combined with tool changer to perform **multiple tasks** with **a single unit**.
- **Multi-functional docking station** ensures **high-speed positioning**.
 - ▶ High-speed positioning increases **productivity**.
 - ▶ **Air and power supply** allows **continuous operation** while charging.

Demonstration: Using VIVACE to Perform 5 Tasks With a Single Unit

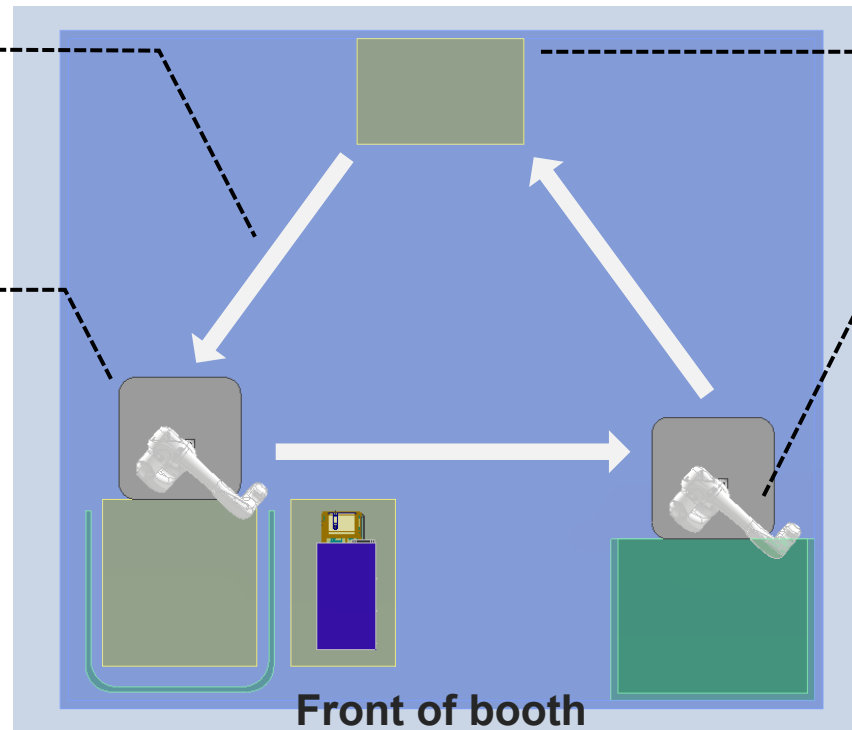
Performs 5 tasks of **loading & unloading**, **transporting**, **welding**, **grinding**, and **inspection**.

② Transporting

Moves omnidirectionally while holding welding workpiece

③ Welding

Changes tool to torch for actual welding

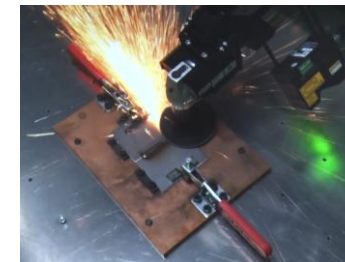


① Loading and unloading

Removes welding workpiece using hand and places in designated location after inspection.

④ Grinding / ⑤ Inspection

Grinds weld bead and inspects bead grinding with sensor



**The Daihen VIVACE mobile robot
promotes automation at customer factories.**

DAIHEN