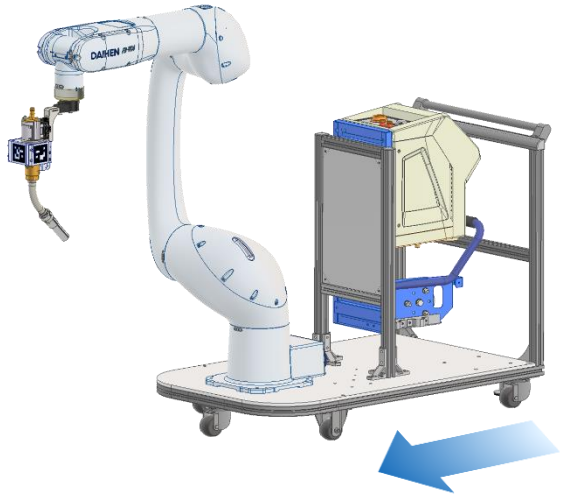
Lean Automation Through Parallel Work Between Humans and Robot

Arc Welding Optimal Collaborative Robot Package (Trolley type)

Issues of introducing robots for large structures

- Moving robots is essential for large structures
- Teaching operation takes time and automation is not profitable

Site of a large structure



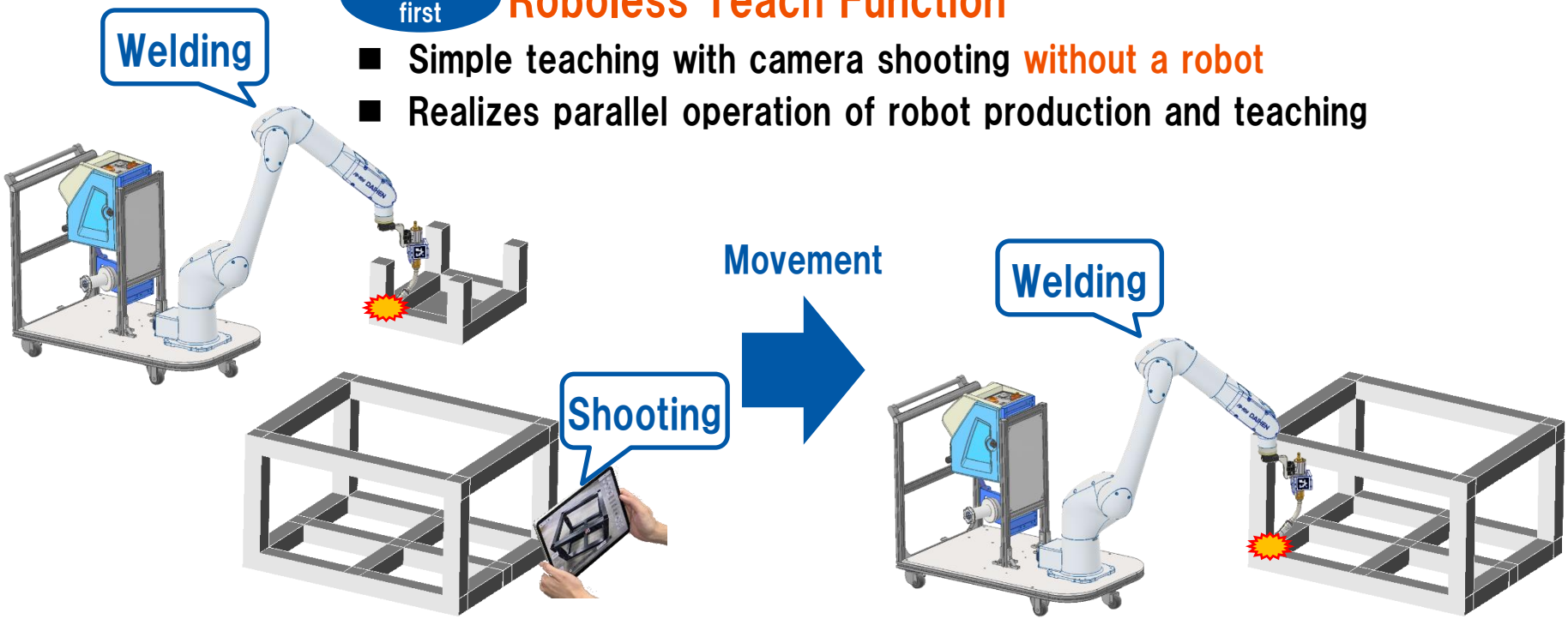
Teaching operation required for each movement

Features of Trolley Type Collaborative Robot

Industry's first

Roboless Teach Function

- Simple teaching with camera shooting without a robot
- Realizes parallel operation of robot production and teaching



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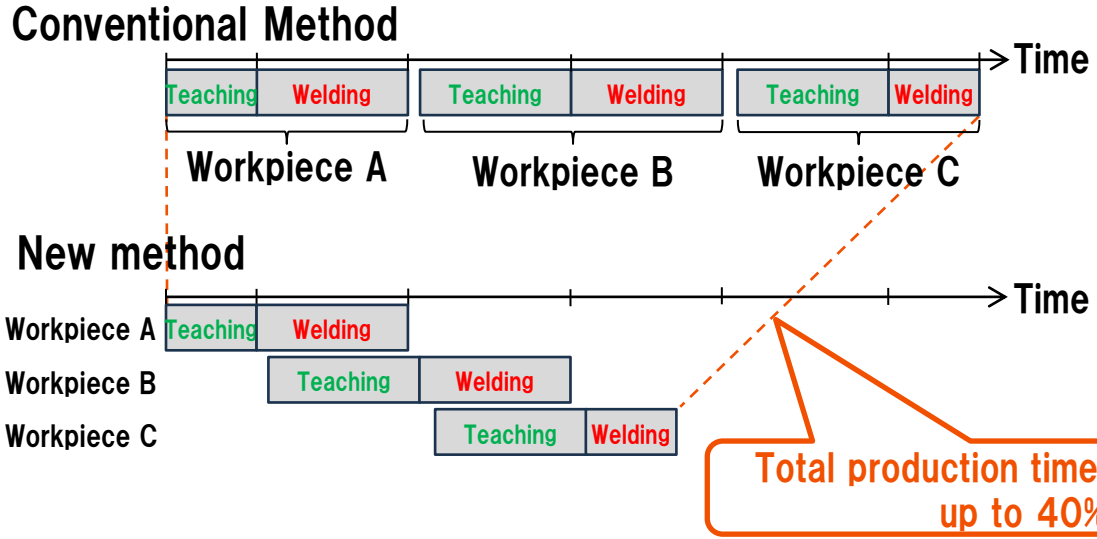
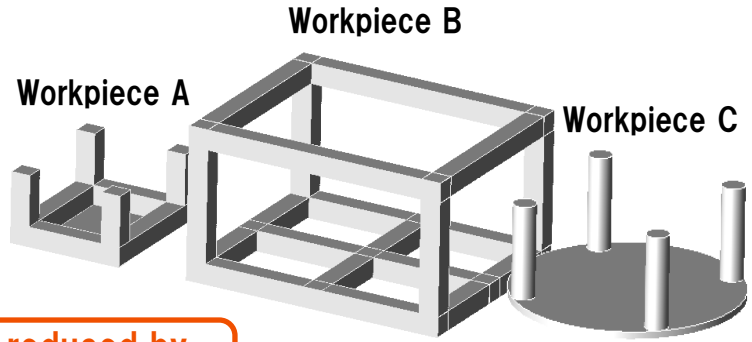




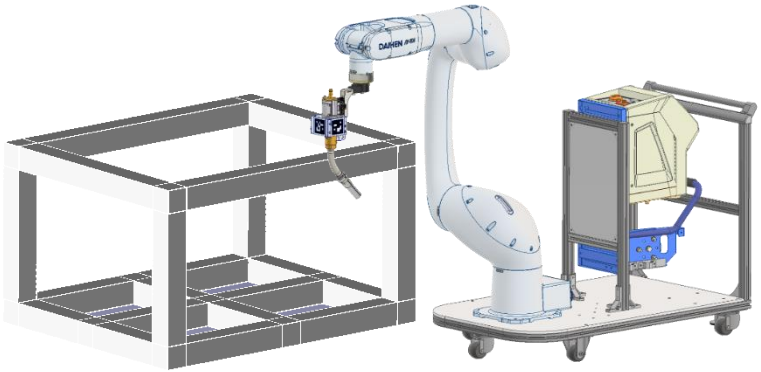
Demonstration:Robotless Teach, a trolley-type collaborative robot

STEP1:Take a picture of the workpiece and select the part you want to weld
STEP2:Move trolley robot
STEP3:Take a picture for alignment and send the program
STEP4:Robot movement

Workpiece conditions

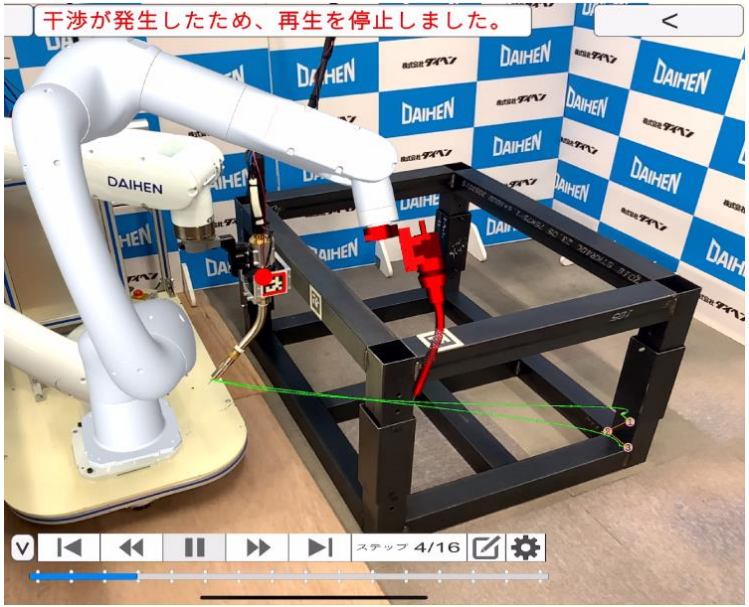
Material: SS400
Bevel shape: Fillet joint
Pipe size: 75×75
Thickness: t1.6

The bucket can move freely to the workpiece position



Interference avoidance

Automatically avoids interference with workpieces and peripheral devices



New Collaborative Robotic VC4L with High Trajectory Accuracy in Long Reach

The trolley-type collaborative robot package Improves production efficiency by performing production operations and teaching in parallel on large structures.


DAIHEN