

Pros of OTC Cobot

- Simple installation and relocation
- The creation of an ideal arc welding application robot with high accuracy and durability!
- We offer the best arc welding application cobot to customers who have abandoned welding automation for reasons such as safety, installation space, and large structures.



Challenges in introducing robots

O1. Space for installing the robot cannot be secured.

O2 Use it at different locations, but I can't easily move it.

Comparable to industrial robots

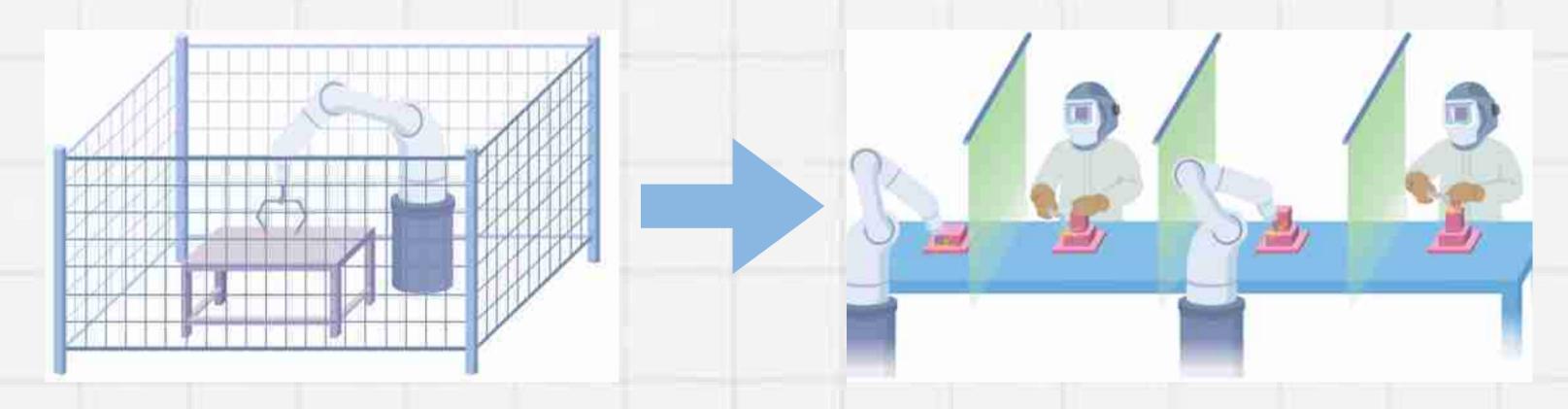
Lack of knowledge about robots

Challenge 1 Space for installation cannot be secured



Sufficient installation space required

Challenge 1 Space for installation cannot be secured



Sufficient installation space required

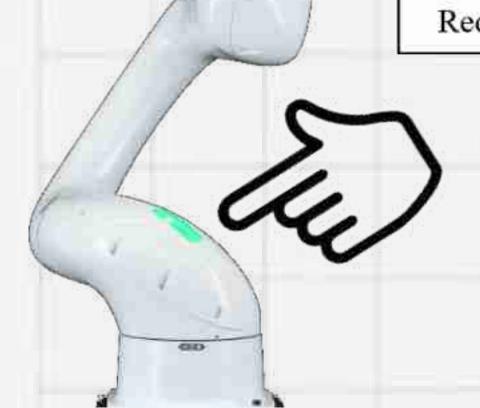
Possible to work next to the worker

Challenge 1 Robot stops when contact is detected



Challenge 1 Cobot status in LED

LED colour	State of the robot	
Green	PLAY MODE-Servo ON	
Blinking green	PLAY MODE-Servo OFF	
Amber	Teach Mode Servo ON	
Blinking yellow	Teach Mode Servo OFF	
Red	When an alarm occurs	

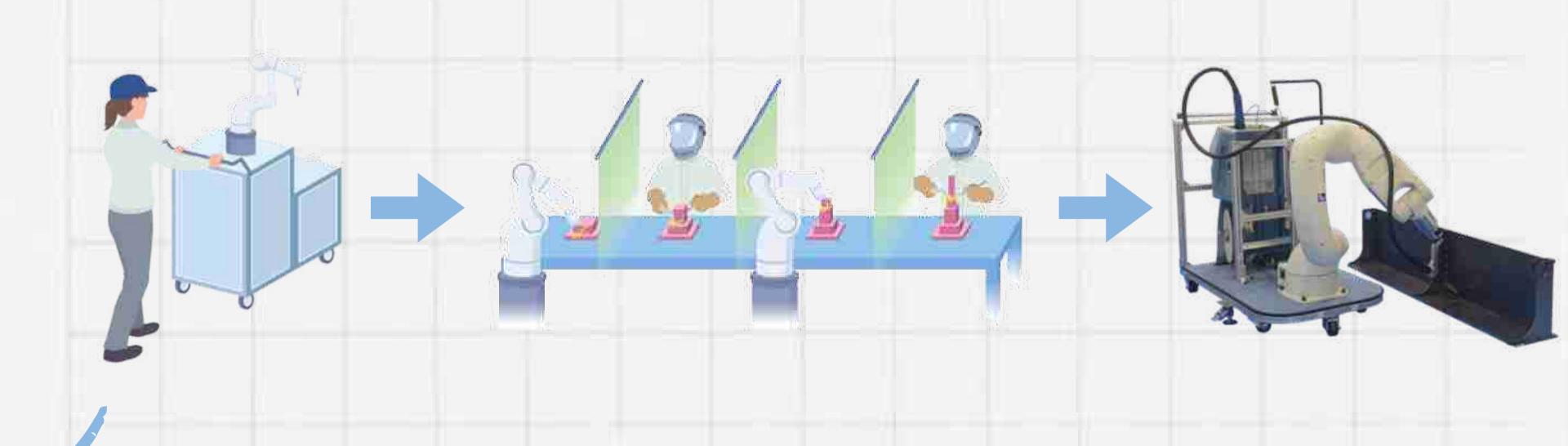




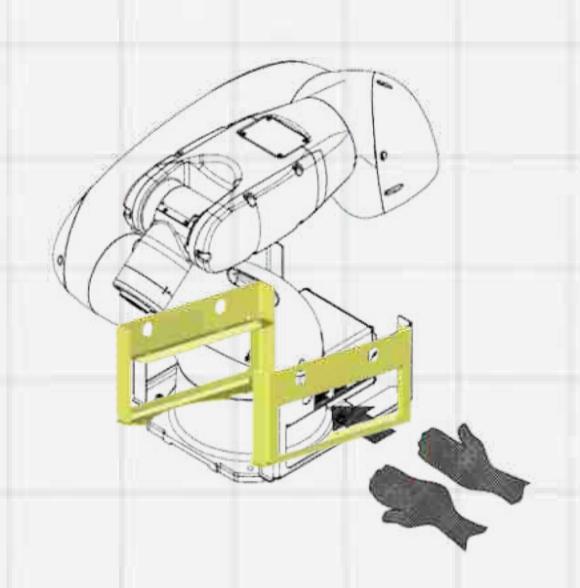




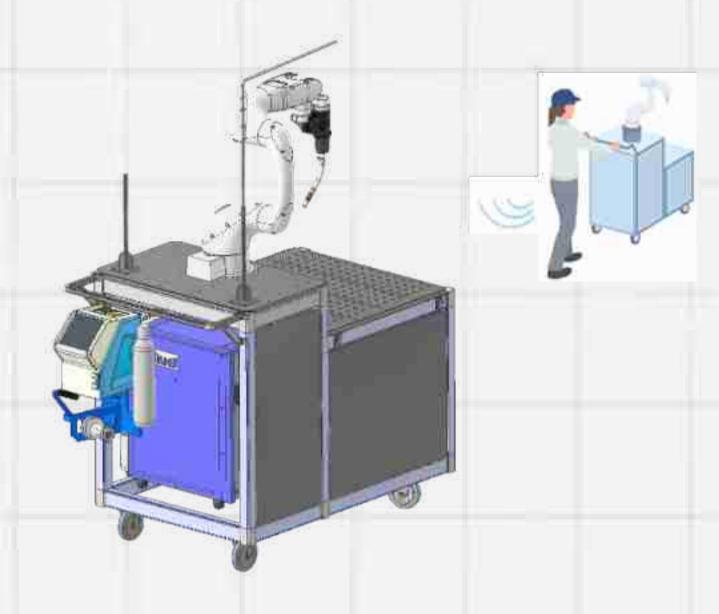
Challenge 2 Cannot be easily relocated



Challenge 2 Move to the site and begin operations right away.



Lifting gear for robots (Optional)



Robot mobile bogie (Custom order)

Challenge 3 Achieves high trajectory accuracy

Company Name	[Straight trajectory] Error in Z direction when operating at 60 cm/min in the Xdirection	[Arc trajectory] Trajectory when Φ10mm is operated at 60cm/min
DAIHEN Highest trajectory accuracy	0.0 0 10 100 200 250 300 810 Housey-before form!	
Competitor A	0.0 0 50 100 250 250 350 350 Hosing distance from:	Little vibration
Competitor B	02 02 03 00 100 100 200 300 300 300 Moving-distance (hear)	
Competitor C	Mondagence (sm)	

Challenge 3 Wide range of welding-related functions



CO2/MAG welding

MAG pulse welding

Low spatter welding

TIG welding

Ultra-low spatter Synchro feed Welding system



Touch sensor function

Arc sensor function

Weaving function

Offline Teaching System FD-ST

Robot-Management-System FD-ST

Various welding torches, etc.



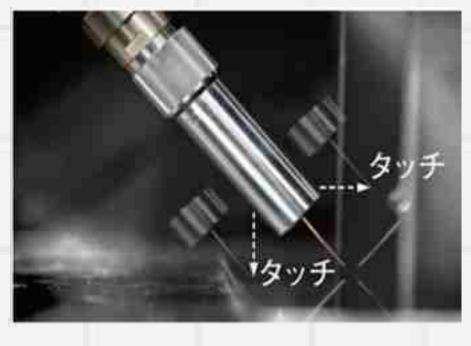
Challenge 4 Simple robot operation (optional)





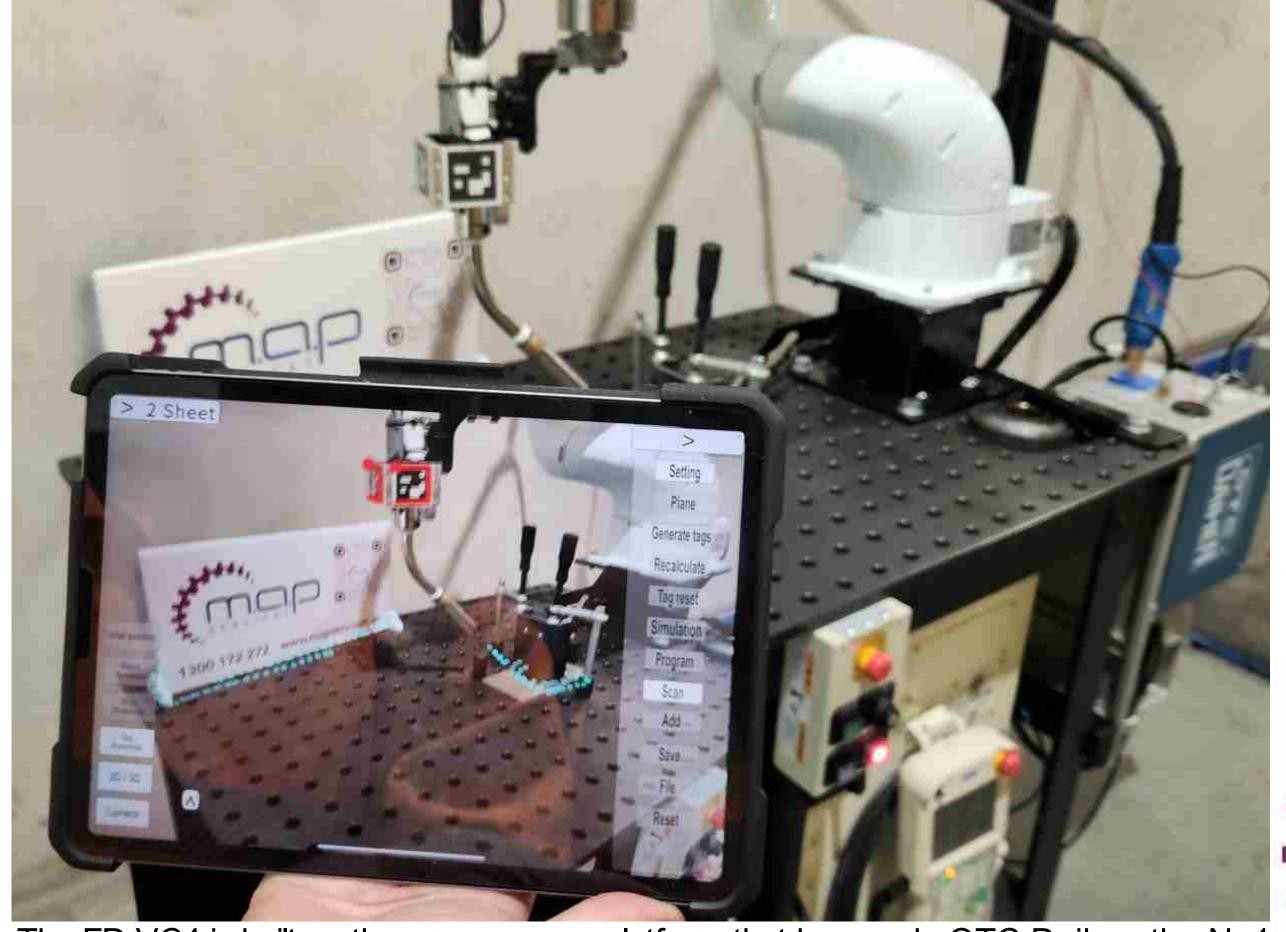






With OTC PhotoTeach and an iPad, you can create complete programs and send them straight to the robot for welding. Simply take pictures of the part, tap on the image your weld start & end points, simulate the on the iPad and start welding!

OTC JoyPen provides intuative control of the robot movements. Hold the JoyPen and move, swivel or tilt it in any direction and the robot will follow and record the path automatically.



The FD-VC4 is built on the same proven platform that has made OTC Daihen the No1 selling robot welding manufacturer globally. The VC4 cobot is the only cobot designed & manufactured specifically for welding, providing durability and the best weld outcomes.



