

View SQD-Robo
Welder video in



SQD-Robo Welder

RW-R6W10

First site-ready welding robot
revolutionising construction work



Safe & Efficient

Save workers from welding hazards (including burns, electric shock, glare, toxic gases etc.)

+25% productivity*



Cost Saving

40% cost saving*, less than 3 years ROI

Listed in CITF Pre-approval list (PA19-001), max 80% sponsored



Flexible

Light-weight (18-28 kg) six-axis robot arm with 0.85-1.3m reach radius

It can be installed on specific fixture and operate with ARC dedicate module (Zero Program Intelligent Welding such as H-pile welding) for different locations and conditions



Easy to Use, Satisfying Outcome

Unique patented Adaptive Robotic Control (ARC) technology - Robota6th - allows Robo Welder to sense the collected data, using the Smart Intelligence Algorithm to enhance work quality with miniscule tolerance for irregularity and error

Novice workers can complete the task quickly and easily with stable quality to achieve WPS certification-level

* With CITF 80% sponsor and compared to traditional welder

Features



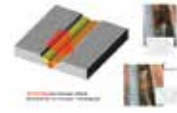
Auto-weld Path Generation



Gap Compensation



3D Welding Weave



Multi-layer Welding

- Intuitive user interface
- Complex welding path
- Short setup time for operation to start (2-5 minutes)
- Site data collected, analyzed and executed by the robot

- The algorithm is not affected by external environment and metal to be welded
- Welding operator does not require BS EN ISO 14732 Welding personnel standard
- The welding result fits BS EN ISO 15613 welding standard

Operation Procedure

- 1 Prepare bevels by SQD-Robo Cutter
- 2 Position H-pile, adjust the alignment and carry out root run by a certified welder
- 3 When the root run is finished, the crane and the welder can be free for other works
- 4 Complete the remaining portion of butt weld by SQD-Robo Welder
- 5 Finished weld can be examined by HOKLAS Lab when necessary

Compared to Conventional Welder

For welding a H-pile (With Robo Welder purchased in full price)

Solution	Conventional Welder	SQD-Robo Welder
Number of worker	Certified welders x 2	Certified welding operator x 1
Time to finish	1.5 hour	1.5 hour
Number of robot	-	Robo Welder x 2
Daily manpower cost	HKD3,800 (2 x HKD1,900)	1 x HKD1,200
Weld quality	An art, subject to the experience of a welder	Engineered, programmed by computer, stable quality
Training time needed	3 years (Skilled worker)	2 weeks (Operator)

Job Reference



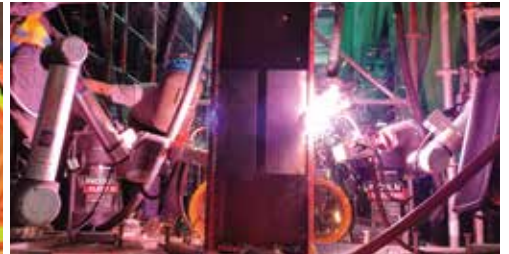
Shear Bar Welding

@Kai Tak Sports Park
Shear bar welding for socketed H-pile 10mm double fillet weld full rounded permanent foundation welding work



Lagging Plate Welding for 610 Pile

@Wong Chuk Hang Station Phase 3
Lagging plate welding work for 610 pile/plate L1200mm x 6mm fillet weld



50mm Butt Welding

@Redevelopment of Kwong Wah Hospital
Structure truss joint welding work, 25, 30, 40, and 50mm horizontal butt weld



ELS Welding

@New Acute Hospital at Kai Tak (Site A)
Welding for various kinds and position of excavation and lateral support works (ELS)



I-Beam to box-column connection

@Taifoo Place II
Column structure welding on the roof-top of the building



60 mm 1G, 2G, 3G structural butt weld

@3rd Runway Construction Site
On-site 60mm H-pile horizontal and vertical butt weld

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