



Multipurpose Portable Robot

Automatic welding machine

Multipurpose portable robot for automatic welding by touch sensing

Features

- 1 Compact and lightweight, it is easy to carry, and settings are simple.
 - Total weight of the robot main unit and traveling rail is 14.2kg.
In addition, an installation and removal mechanism is included, so operations can be carried out by a single person. Weight of the control panel is Approx. 5kg with excellent portability.
 - Easy rotation at a welding site and work conditions were considered, and easy handling by the operator has been achieved by making the pendant wireless.
- 2 Welding work conditions are generated by calculations based on data from the automatic touch sensing.
 - Correction operations are carried out based on the continuous end root gap and groove angle. High quality welding is possible even for materials with tapered gaps
- 3 Change, correction and saving the shape of the welding parts material.
 - The shape of the welding parts material measured by automatic measurement are edited and saved from the control panel screen.
- 4 Yawing mechanism can be used for ceramic tabs.



Standard Specifications

Welding robot main unit

Axis composition	4 axes
Stroke front and back axes	80mm
top and bottom axis	90mm
traveling axis	500mm
yawing axis	±28°
External dimensions(mm)	100(W)×450(L)×340(H)
Weight(excluding rail)	7.7kg
Weight(rail)	6.5kg
Weaving pattern	Straight line simple vibration

Control panel

Input voltage	AC100V±10% 50/60Hz
Instruction points	2 points
Measurement mode type	Automatic, Full automatic, Manual
Welding Conditions	Automatic Calculation Process
External dimensions(mm)	320(W)×350(L)×140(H)
Weight(excluding pendant, table)	5kg

No line pendant

External dimensions(mm)	150(W)×200(L)×50(H)
Display	Organic EL display(2 lines)
Weight	1kg

※For welding of architectural steel joints (9-40mm plate thickness, 35° downward bevel groove, 4-10mm gap)