

# Welding Column and Boom Manipulator

The welding manipulator features a column, welding arm, rotating mechanism, and elevating mechanism. It is designed to meet multi-directional welding needs, with worm gear transmission and a converter for stable speed changes.



## ADDITIONAL IMAGES



## Overview

### Precision Welding Performance

The LCH series welding manipulator offers a versatile solution for multi-directional welding requirements in industrial fabrication. Engineered with a stable worm gear elevating system and precise speed control via converters, it ensures consistent welding quality. The integrated remote control system facilitates efficient operation, supporting advanced automation when linked with submerged arc welding and rotators.

## Performance Metrics

### Key Performance Metrics

**6000 mm**

Vertical Elevating Stroke

**6000 mm**

Horizontal Expansion Stroke

**1.2 m/min**

Max Boom Expansion Speed

## Technical Specifications

### Mechanical Parameters

Feature	Specification
Suitable Cylinder Diameter	1000 - 6000 mm
Base Rotating Angle	±1800°
Boom Elevating Speed	1 m/min
Trolley Track Center Distance	1780 mm
Trolley Forward/Backward Speed	1.5 m/min

### Compatible Power Sources

MZ-1250, ZKR-500

## Control & Compatibility

### Control System Features

- Integrated remote control operation box
- Speed potentiometer for cross arm
- Full welding parameter adjustment (current/voltage)
- Trinity control mode support
- Compatible with submerged arc welding and rotators