



PROCESSING THE STEEL SHEET

Rade Koncar-TEP

■ WELDING WITH ROBOTIC ARM

OTC DAIHEN welding robotic arm model AX-V6 with six degrees of freedom and Management System AX-C. AX-V6 is a manipulator that moves at high speed, which reduces the time required for production. Used for MIG / MAG welding, TIG welding, Tandem MAG welding. With these features as well as built-in touch sensor in welding torch and improved system configuration, AX-V6 is ideal for arc welding at high speed.



General specifications:

Number of axes: 6
Reach horizontal arm: 1402mm
Accuracy / repeatability: ± 0.08 mm

Axis data – motion range

Axis 1: $\pm 170^\circ$
Axis 2: $+155^\circ, -90^\circ$
Axis 3: $+190^\circ, -170^\circ$
Axis 4: $\pm 180^\circ$
Axis 5: $+230^\circ, -50^\circ$
Axis 6: $\pm 360^\circ$

Robot axis speed

Axis 1: $150^\circ / s$
Axis 2: $150^\circ / s$
Axis 3: $150^\circ / s$
Axis 4: $340^\circ / s$
Axis 5: $340^\circ / s$
Axis 6: $340^\circ / s$

Main features

Faster, yet smoother motion - reduced cycle time by new servo control system with advanced acceleration method.

Limit vibration - completely eliminate vibration even when stopping at the maximum speed.

Rotary positioner - used for serial welding of transformers.

The usage of robotic arm for welding in our company's manufacturing processes leads to:

- increasing product quality
- reducing the time for production
- reducing production losses
- increasing productivity

