



Industrial Robotics Maintenance

Contents

Assembly Operation

Robot assembly operation training

Contains 14 major steps:

- Install J1 reducer
- Install base
- Install 1-axis motor
- Install J2 reducer
- Install big arm
- Install 2-axis motor
- Install J3 reducer
- Install 3-axis motor
- Install J4 reducer
- Install 4-axis motor
- Install 5-axis motor
- Install 6-axis motor
- Install 6-axis reducer and flange
- Install small arm rod

Maintenance

Robot maintenance training operation

Safe Operation

- Dress
- Power-on check
- Check whether the robot moves normally
- Power-off operation

Robot Body Inspection

- Robot surface cleaning
- Cable wiring inspection
- Robot bolt inspection

Robot Grease Replacement

- Reducer grease replacement
- Gearbox grease replacement

Electrical Adjustment

Robot electrical installation and adjustment training operation

Basic Operation

- Task 1: Start/stop the industrial robot
- Task 2: Understand the teaching pendant
- Task 3: Return to the reference point
- Task 4: Record the positive and negative limits of each axis
- Task 5: Set the soft limits of each joint
- Task 6: XYZ direction operation practice

End Effector-Installation

- Task 1: Workbench quick change gripper installation
- Task 2: Robot arm quick change device installation

End Effector-Debugging

- Task 1: Quick change device clamping/relaxation test
- Task 2: Quick change gripper clamping/relaxation test
- Task 3: Material sensor test
- Task 4: Auxiliary button setting of quick change fixture
- Task 5: Cylinder in-place sensor test

End Effector-Quick Change Action Programming

- Task 1: Position teaching
- Task 2: Quick change gripper grabbing
- Task 3: Quick change gripper put back