



HIGH SKILL CNC

TRAINING : CNC PROGRAMMING | INDUSTRIAL ROBOTICS & AUTOMATIONS | MASTERCAM | TPM | MAINTENANCE
SERVICE : CNC LATHE | VMC | HMC | GRINDING | SPM | EDM | CONVENTIONAL M/C | INDUSTRIAL ROBOTICS & AUTOMATIONS

ABOUT US

The Five/Six axes articulated robot is a Open source Robot, the Parts of the Articulated Robotic arm are 3D printed using **HIGH SKILL CNC** MATRIX Pro / GT 300 Printing machine. The robot is easy to program and operate. The controller software offers robot programming, 3D simulation, integration input/output systems, vision system. It is a plug and play type of equipment. It offers hands on experience of industrial applications such as pick and place, assembly, palletizing and compatible with robot operating system(ROS). Very much ideal for Learning and Training purpose.





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ROBOT SPECIFICATIONS

- No. of Axis Reach : 5 or 6 axis
- Vertical Height : 600mm without considering gripper
- Reach : 100mm to 450mm
- Payload : 0.2 Kg
- Axis 1 : 240 Deg
- Axis 2 : 60 Deg
- Axis 3 : 60 Deg
- Axis 4 : 340 Deg
- Axis 5 : 180 deg
- End effector : Servo Gripper
- Motors : Stepper and Servo Gripper
- Input/Outputs : 12 V
- Power supply : 230V
- ROS compatability : Yes
- Repeatability : ± 1.0 mm
- Weight : 15 Kg

GRIPPER

- Servo Gripper
- Magnetic Gripper
- Motor on/off, if we connect a Motor for Drill, polishing, Grinding Etc

APPLICATIONS

- Pick & Place
- Palletizing
- Assembly
- Screw Fastening
- Vision Inspection

CONTROL SOFTWARE

- Robotic Arm Control Center

SOFTWARE FEATURES

- 12axis can be played in a single gcode file.
- Why 12 axis? Normally a 6axis robotic arm is not sufficient to solve real world problem.
- So, the extended axis are used to assist the robotic arm to perform task.
- Use joystick to control.
- Support two types of gripper. Magnetic and servo.
- Support motor on/off.
- Auto recording of gcode.
- Can play line by line of gcode.
- Can save unlimited gcode file.
- Can return back to home position.

