

▶ VBOT Robotic Training Cell

Intermediate and Advance System

VBOT A120 series



VBOT Robotic Training Cell

- Flexible design to suit individual education syllabus.
- Fundamental (theory), Intermediate and Advance Training System available
- In-corporate with Vision, Pneumatic, Program Algorithm and Customize Application.
- Applicable for Various Engineering Courses.
- Assignment and experiment included.

ABB Articulated Robot IRB 120

An industrial articulated robot ABB IRB 120 with high accuracy and reliability.



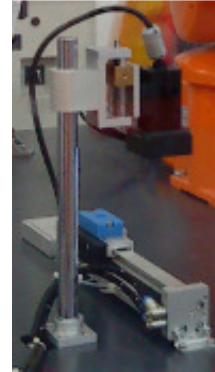
Compact and 25kg weight permits easy transportation. Payload of 3kg, and the robot reach is 580mm. High accuracy of position repeatability of 0.02mm.

Come with small and unique design IRC 5 controller. 16 in, 16 out digital I/Os as standard feature. Robot Teach Pendant is by Flex pendant characterized by its clean, color touch-screen based design and 3D joystick for intuitive interaction.



Vision System

A vision camera with light box mounting on the fixed location. Robot will bring the object to the vision zone for different task assignment.



Vision System Included for the following

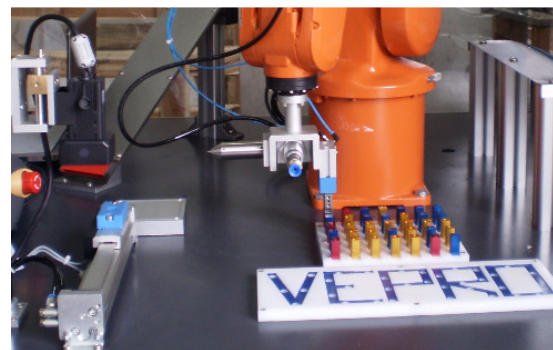
- Color Recognition
- Shape Recognition
- Quality Control

End Effector

A vacuum gripper, drawing pen, standard suction pad are mounted together to perform three different kinds of task: pick and place, drawing and palletizing.

Pick and place

Robot pick up an object to the vision zone for color and shape recognition by parallel gripper. After parts being recognized, robot will carry the object to the related position for a complete pick and place process.



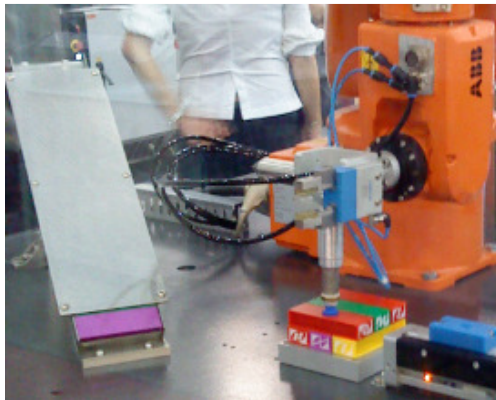
Drawing



A drawing pen is mounted on the gripper to teach the student on various motion path – like point to point, linear motion and circular path. A3 size curve drawing board with magnetic strip for easy removal of drawing paper included. Curve drawing board will give overall idea on the robot motion path.

Palletizing

A suction pad will pick up an object to the palletized position for training the student on programming skill, understanding matrix programming and simulated the industrial palletizing environment.



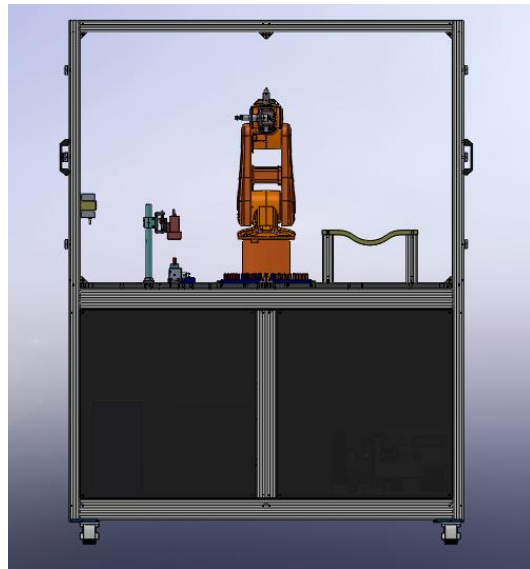
Robotic Applications

The following application packaged in the training cell.

- Basic Robotic Programming
- Advance Robotic Programming

- Robotic cell design
- Vision System application and programming
- Robotic Pick and Place Application
- Robotic Quality Control Application
- Robotic Palletizing Application
- Robotic Drawing Application
- Customized solutions available

Front View of the Training Cell



Side View of the Training Cell

