

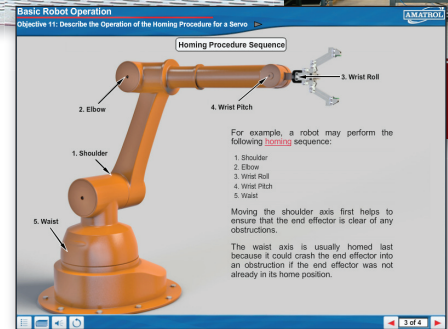
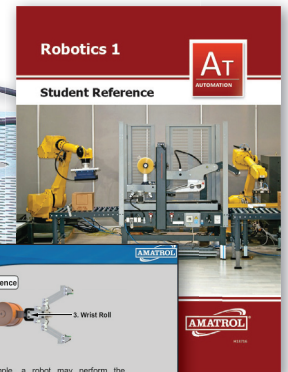
Pegasus II Robotic Learning System

880-RA2-1-B



880-RA2-1-B

Student Reference Guide



Optional Interactive Multimedia

Learning Topics:

- Basic Robot Operation
- Power Up and Shutdown
- Manual Operation
- Homing
- End Effector Operation
- Basic Robot Programming
- Teaching Points
- Movement Commands
- End Effector Commands

Amatrol's Pegasus II Robotic Learning System (880-RA2-1-B) teaches articulated arm servo robotics and how it's applied in industrial tasks like assembly, material handling, machine tending, gluing, and inspection. This learning system includes 5-axis articulated servo robot arm with a 360 degree work envelope, industrial controller, and state-of-the-art teach pendant which are used to practice over 140 executable commands using the powerful MCL II language.

The 880-RA2-1-B also includes world-class curriculum which covers major topic areas like basic robot operation and programming to accomplish hands-on skills such as jogging a servo robot using the teach pendant, entering and editing a basic robot program, and designing a robot program to perform a basic material handling task. The combination of theoretical knowledge and hands-on practice allows learners to gain both conceptual and practical knowledge, which broadens their competency in robotic applications. This is just one reason why Amatrol is the world-leader in skills-based, interactive technical learning.



Technical Data

Complete technical specifications available upon request.

5-Axis Servo Robot Arm with Electric Servo Gripper

- Maximum Speed: 23.6 in. / sec. (599.4 mm/sec)
- DC servo motor actuators (6)
- Maximum Reach: 24 inches (609.6mm)

Motor Cable

Encoder Cable

Teach Pendant

- Two-line display
- Emergency stop button
- Jog capability
- Four soft keys

Pegasus Control Software

- Windows-based
- Online/offline capability

Servo Controller

- Controller type: multiprocessor, real time, pulse width modulated
- Communication: USB 2.0 standard
- 16 inputs 300 VDC reverse peak protected with front panel indicators
- 16 outputs relay-type with front panel indicators
- Discrete I/O interface panel with LED for each input/output point and a terminal connection

Power Cord

Mounting Hardware

USB Cable

Student Curriculum (13716)

Instructor's Guide (13717)

Installation Guide (13715)

Student Reference Guide (H13716)

Optional Multimedia (M13716)

Additional Requirements:

- Personal Computer. See requirements at: <http://www.amatrol.com/support/computer-requirements/>

Utilities:

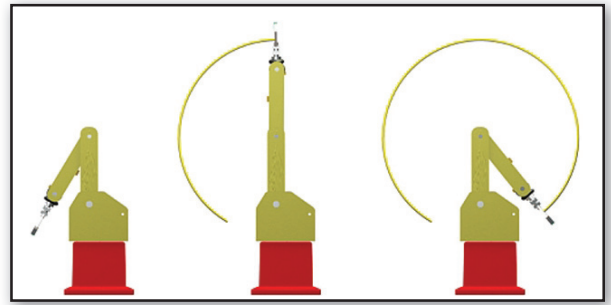
- Electric: 120 VAC / 60 Hz / 1 Phase

Options:

- Flexible Workstation (88-200)

Industrial Quality Pegasus II Robot

The 880-RA2-1-B features a powerful, 5-axis Pegasus II articulated servo robot arm with a gripper. This robot features a double-jointed arm that enables it to work on both sides of its work cell and has a 360 degree work envelope, which increases work cell efficiency. The robot also has industrial quality repeatability (0.18mm) due to worm screw drives, high-resolution encoders, infrared homing sensors, and multiple microprocessors. This repeatability supports training of more precise industrial tasks such as assembly.



State-of-the-Art Teach Pendant

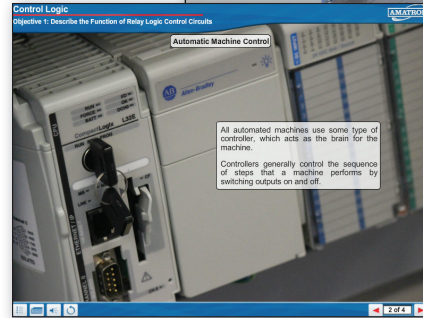
The 880-RA2-1-B's teach pendant is a state-of-the-art device that features two-line display, and emergency stop button, jog capability, and four soft keys which allows the robot to take on a variety of functions according to the menu shown on the teach pendant display. This unit becomes a handheld programming terminal, enabling users to enter and edit teach points.

World-Class Curriculum and Optional Multimedia

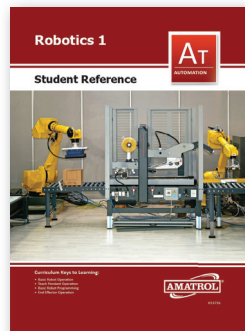
This learning system's curriculum covers a vast range of topics related to robot control including basic robot operation, power up and shutdown, manual operation, homing, end effector operation, basic robot programming, teaching points, movement commands, and end effector commands. Studying these topics will allow learners to practice skills such as test teach points, manually operate a robot gripper, run a servo robot program, and many more. This world-class curriculum is also available in an optional interactive multimedia format. The multimedia includes all the theory and skills of the printed version in a vibrant computer-based format that features audio, video, and 3D animations.



Optional Interactive Multimedia



Student Reference Guide



A sample copy of the Robotics 1 Student Reference Guide is also included with the system for your evaluation. Sourced from the system's multimedia curriculum, the Student Reference Guide takes the entire series' technical content contained in the learning objectives and combines them into one perfect-bound book. Student Reference Guides supplement this course by providing a condensed, inexpensive reference tool that learners will find invaluable once they finish their training making it the perfect course takeaway.

