

MOTOSIM TOUCH

INDUSTRIAL ROBOTICS SIMULATION TOOL FOR STUDENTS

KEY BENEFITS

Provides “real world” virtual robotics experience at a fraction of the cost of an industrial robot

Provides hands-on, STEM-aligned environment for robotic modeling and programming

Teaches industry-recognized career ready robotics skills

Single key with no reoccurring licensing fees

COMPATIBILITY

YRC1000 controller

MotoSim[®] TOUCH



- PC-based offline programming environment and robotics simulation tool.
- Designed specifically for K-16 schools, training organizations and educational research institutions.
- Setup in the classroom or robotics lab is quick and easy, with only four cables to plug in.
- In either mode, students utilize MotoSim EG-VRC*, a comprehensive offline programming and simulation software package.
- Virtual pendant and hardware pendant both utilize easy-to-use INFORM III programming language.
- Robot programs can be moved from the simulation environment to the optional classroom robot.
- Learn how to program and model industrial robots in a safe, virtual PC environment:
 - Enter and modify data to create a robot job
 - Perform collision detection, reach analysis and cycle time calculations
 - Perform testing and diagnostics
- Learn how to program robots using a hardware pendant. Practicing with a pendant develops “muscle memory”, allowing programming tasks to become second nature.
- Become proficient with a wide variety of robot functions, including:
 - Robot path
 - Speed
 - TCP (tool control point)
 - User frames
 - Macro command
 - Relative job
 - Enhanced multiple robot control
 - Independent/coordinated motion

NOTE: MotoSim Touch is available to all educational facilities.

* MotoSim Enhanced Graphics - Virtual Robot Controller

MOTOSIM TOUCH

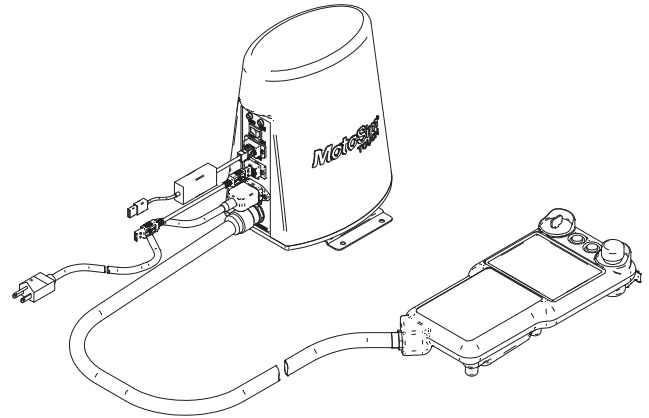
PACKAGE COMPONENTS

- MotoSim Touch (10 ¼" tall, 6 ¼" wide, 8 ¾" long)
- Programming pendant with 6-ft cable
- MotoSim EG-VRC software
- USB to EtherNet adapter and power, network and USB interface cables

NOTE: Scholastic institutions are required to provide a Windows-based PC workstation including monitor, keyboard and mouse.

SYSTEM REQUIREMENTS

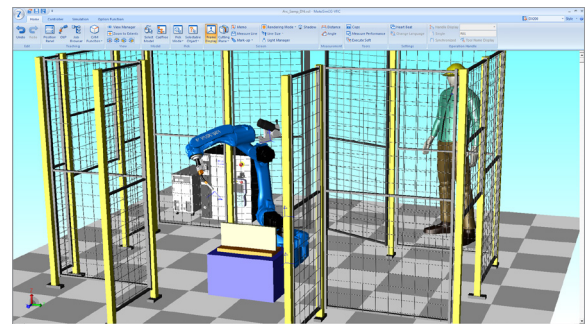
- Windows® 10 (64bit), Windows 11 (64bit)
- Intel® Core™ i7 CPU
- 16 GB RAM
- NVIDIA® graphics card (Quadro® series, etc.)
- 500 GB hard drive



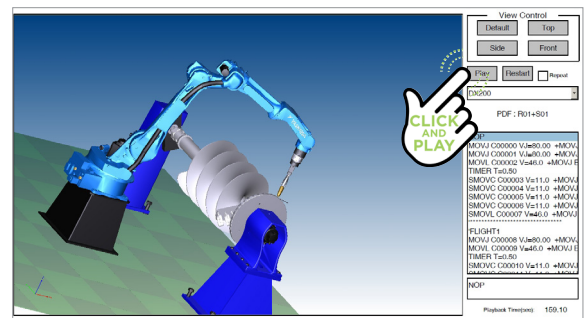
MotoSim Touch setup (Windows®-based PC workstation with monitor, keyboard and mouse provided by scholastic institution)

MOTOSIM EG-VRC CAPABILITIES

- Supports multi-robot and multi-controller simulation
- Robot(s) and external axes control, including independent/coordinated motion
- Supports standard and optional controller functions such as Macro Command and Relative Job
- Component-level collision detection
- Automatic robot path generation based on 3D CAD model information. Customizable to include application-specific instructions. Motion type, velocity, number of positions generated and work angle are adjustable. Generate numerous program positions in seconds!
- Modify robot position and manipulate each robot axis by dragging with the mouse. User can also position the robot in Cartesian mode.



Cell layout and design



3D pdf files can be created to improve collaboration

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