

Motoman MHJF Cart for Education

The MHJF cart is a compact all inclusive solution for classroom educational use to teach all the capabilities of an industrial robotic arm. Custom designed for educational use, the mobile cart includes all the components to set up an industrial robotic classroom workstation and can be packed, moved and stored easily when not in use.

The cart provides a best-in-class package of robotic technologies typically encountered in advanced manufacturing environments.

The contained design for the robotic arm ensures a safe working environment for students to learn in. The platform and accessories provide a framework for learning that is simple, easy to use and packed with features and functionality for every robotics class.

Using the MHJF, low power 6-axis robotic arm with 1-2 kg (2.2 - 4.4 lbs) payload and 545 mm (21.4") reach, students can program and learn a variety of robotic functions.

The MHJF is paired with the FS-100 controller, a powerful and feature rich controller with functions & performance optimized for high performance applications. The system can be paired with a standard programming pendant or a Smart Pendant. The cart package includes software, educational resources and training from Yaskawa.



Features

- Compact, mobile with optional wings fits through 36" lab door.
- Enclosed cart design
 - Safe working/learning environment
 - Transparent sides allows easy viewing.
 - Safe door access with safety interlock
- Everything you need is included and on the cart.
- Gripper included
 - Gripper package includes a Schunk pneumatic gripper, Schmalz vacuum gripper and required control interface
- Durable work surface with precision markings for a range of exercises including
 - Palletizing, depalletizing
 - Pick and place
 - Tool path and spline shape tracing
- Solid extruded aluminium construction with castors
- Easy set-up - Only one cable required

Education Ready Solution:

More Flexible

Space Saving

Ready for the Classroom

Cart Specifications

Extruded Aluminum construction

6 mm (1/4") thick composite worktop for mounting class-specific peripherals

Clear polycarbonate side panels

Door safety interlock

Dimensions

Width: 32" (813mm)

Length: 40" (1016mm)

Height: 71" (1793mm)

Easily fits through standard 36" door

Integral, low noise air compressor

Instructor Kit: I/O control box, teach pointer, TCP tool, block nest and set of ten blocks

Electrical Requirements

120vac 10amp for complete cart

Add-on Options

- Cognex vision system
- Smart Pendant
- MotoSIM/MotoSIM Touch trainers
- Training
- Certification

MHJF Specifications

Structure

6 Axis articulated arm

Working Range

545 mm (21.4")

Repeatability

±0.03 mm (±0.0012")

Power Consumption

0.5 kVA

Payload

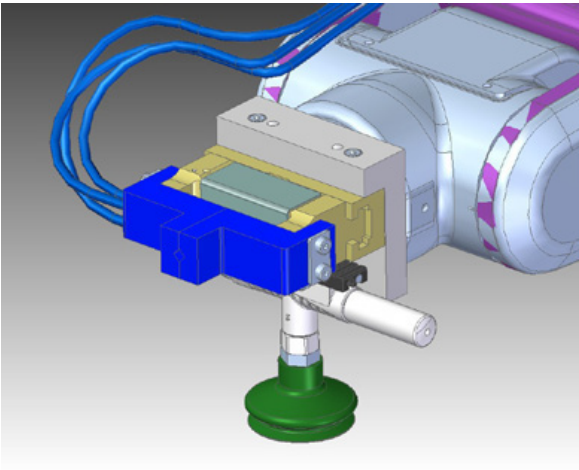
1 - 2 kg (2.2 - 4.4 lbs)

Controller

FS-100 Controller

Programming Pendant

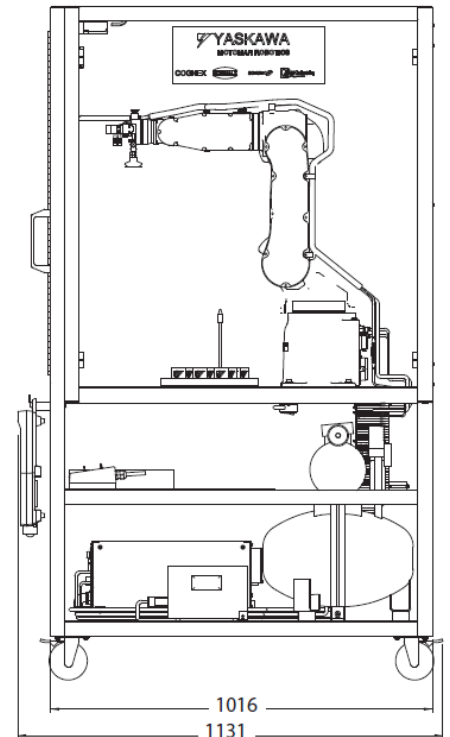
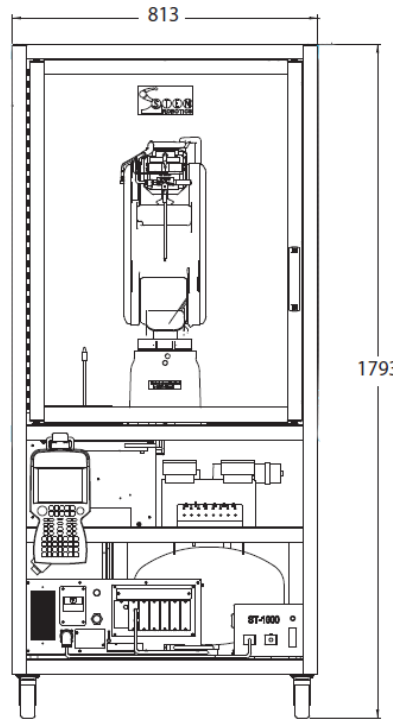
Standard Pendant or Smart Pendant



The MHJF training cart is available in a number of configurations to satisfy the needs of the classroom.

Left: MHJF Gripper package

Bottom: MHJF Cart Dimensions



Yaskawa Certification

Students who complete the MotoMan Robotics curriculum are eligible to become Certified as a MotoMan Operators and/or Programmers. At the completion of each course, the course concludes with a practical exam which the student must pass before taking the Certification exam.

Candidates that successfully complete the practical exam are then eligible to take the final certification exam to be certified and receive a certificate of completion



Industry 4.0 for Education

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