

MotoMini Fenceless Cart for Education

The MotoMini fenceless cart is a compact solution for classroom educational use with all the capabilities of a full size 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 fenceless design and speed limiting of the robotic arm ensure 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 MotoMini, compact 6-axis robotic arm with 0.5 kg (1.1 lbs) payload and 350 mm (13.8") reach, students can program and learn a variety of robotic functions.

The MotoMini is paired with the advanced YRC1000micro controller, a compact size controller with functions & performance optimized for transfer and assembly applications. The system can be paired with a standard programming pendant or the Yaskawa Smart Pendant. The cart package includes software, educational resources and training from Yaskawa..



Features

- Compact and mobile to fit through any lab door.
- Fenceless cart design
 - Safe working/learning environment
 - Allows better viewing and access compared to fully enclosed carts.
 - Area scanner deployed to provide safe zone
- Everything you need is included and on the cart.
- 24VDC Gripper - no compressor required
 - Gripper includes open/close sensors and a LED pointer.
- 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

Structure

Extruded Aluminum construction

Dimensions

Width: 27.5" (698.5mm)
 Length: 27.25" (690.9mm)
 Height 65.5" (1663.7mm)

Easily fits through standard 30" door

Weight

~115 lbs

Electrical Requirements

120vac 10amp for complete cart

Add-on Options

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

MotoMini Specifications

Structure

6 Axis articulated arm

Working Range

350 mm (13.8")

Repeatability

±0.02 mm (±0.0008")

Power Consumption

0.5 kVA

Payload

0.5 kg (1.1 lbs)

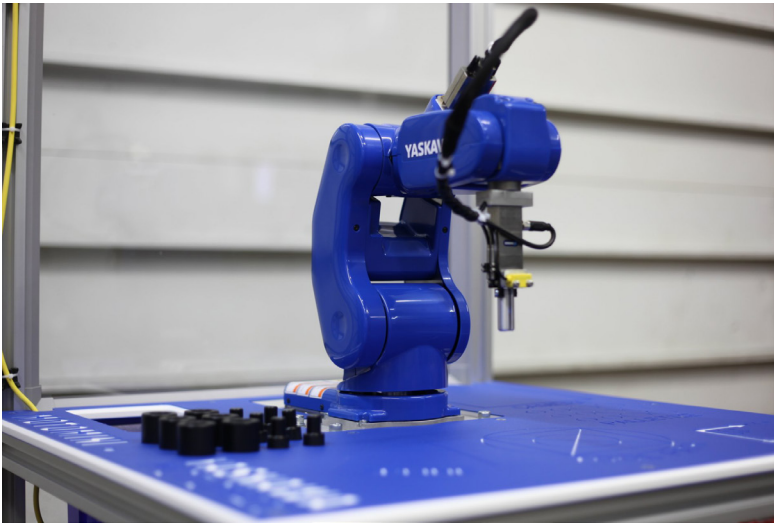
Controller

YRC1000micro Controller

Programming Pendant

Standard Pendant or Smart Pendant

Industry 4.0 for Education



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

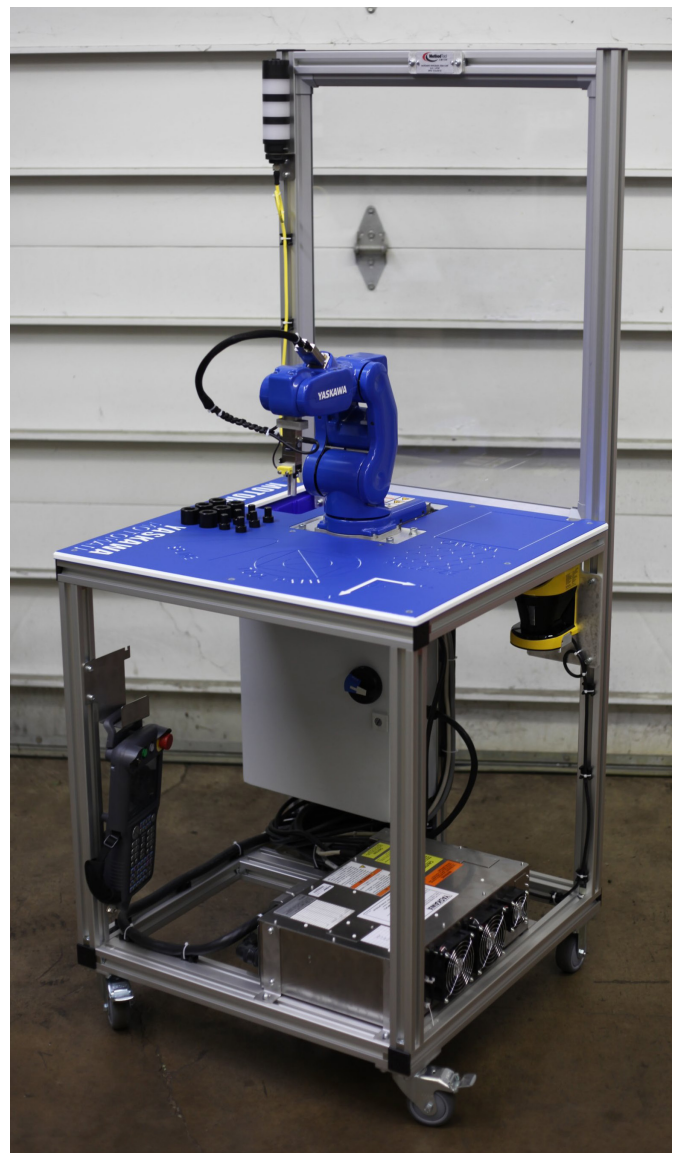
Left: MotoMini education surface

Bottom Right: MotoMini cart in storage position

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



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