

# STEM-WELD Robotics Platform

## READ ME

Upon receipt of the product and prior to initial installation and operation, read these instructions thoroughly, and retain for future reference.

### Welcome...

...to the Yaskawa Motoman family of robotic products. We at YASKAWA take pride in the work we do and would like to take this opportunity to thank you for your business. The design of this READ ME document is to help with installing your new robotic system. Please review all the information before installing or operating your system.

### Reference Documentation

Please review the following information before operating your system

- DX100 Inform Language Manual
- DX100 Install, Operation and Maintenance Manual
- DX100 Brake Release Function Manual
- DX100 MH5/MH5S Manipulator Manual
- DX100 Arc Welding Operators Manual
- DX100 Option Instructions for Concurrent I/O Manual
- Third Party Manuals

### Customer Support Information

If you need assistance, please contact Yaskawa Motoman Customer Support at the 24-hour telephone number (937) 847-3200.

For **routine** technical inquiries, you can contact Yaskawa Motoman Customer Support at [techsupport@motoman.com](mailto:techsupport@motoman.com).

When using e-mail to contact Yaskawa Motoman Customer Support, please provide a detailed description of your issue, along with complete contact information. Please allow approximately 24 to 36 hours for a response to your inquiry.



Please use e-mail for **routine** inquiries only. If you have an urgent or emergency need for service, replacement parts, or information, contact Yaskawa Motoman Customer Support at (937) 847-3200.

Please have the following information ready before calling:

System	STEM-WELD Robotics Platform
Robots	MH5SM
Primary Application	Educational
Controller	DXM100
Software Version	Access this information on the Programming Pendant's LCD display screen by selecting {MAIN MENU} - {SYSTEM INFO} - {VERSION}
Robot Serial Number	Located on the robot data plate
Robot Sales Order Number	Located on the robot data plate

### System Overview

The STEM WELD Robotics Platform uses a Yaskawa Motoman MH5SM robot with a DXM100 controller assembly.



**CAUTION**

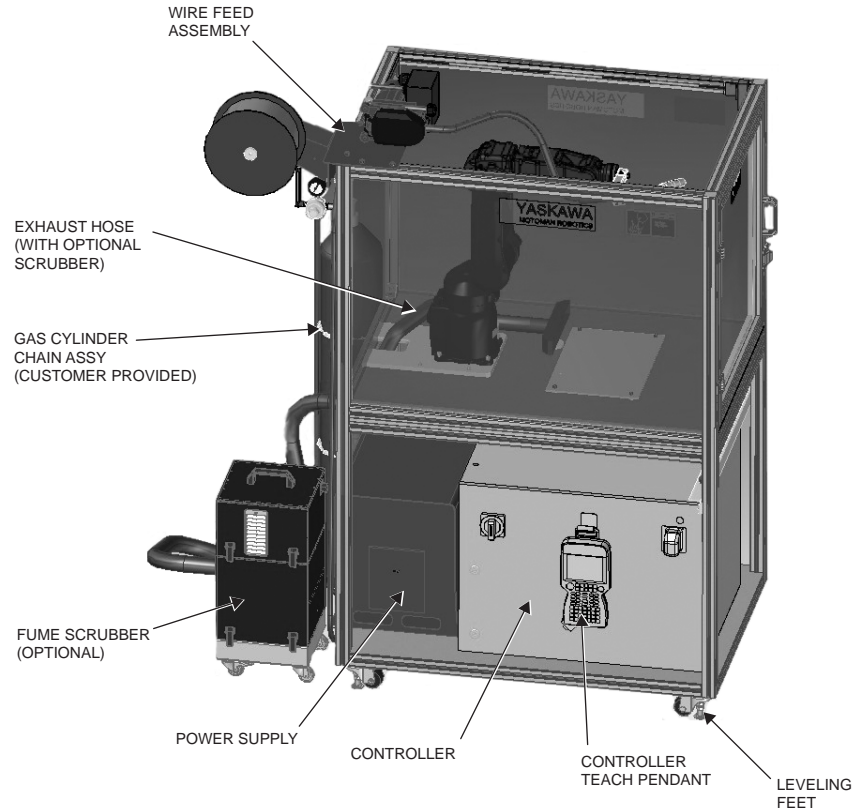
Customer is responsible for safe guarding when purchased as a robot package.



The speed of the STEM-WELD Robotics Platform is limited to 25% of maximum speed for safety reasons.

# Installation

## STEM-WELD Robotics Platform



1. Unpack the STEM-WELD Robotics Platform components and roll to the desired location.
2. Using the supplied Leveling Feet, level the STEM-WELD Robotics Platform ensuring the Casters are off the ground.
3. Attach Wire Drive Assembly using four M8 X16 screws, M8 washers, and M8 X 10 t-slot nuts to 22 ft.-lbs.
4. Install the Controller Teach Pendant.
5. Attach Feeder Control Cable between Power Supply and Wire Feed Assembly.
6. Route and attach the Touch Sense and Devicenet Cable between the Controller and Power Supply.
7. Route and attach exhaust hose from the Fume Scrubber to the STEM-WELD Robot Platform, if provided.



### WARNING

Read and follow all local and federal regulations when connecting the STEM-WELD Robotics Platform to a power source.

8. Place Gas Cylinder next to the Fume Scrubber securing in place with the Gas Cylinder Chain Assembly.
9. Attach Regulator and Hose from the Gas Cylinder to the connection on the STEM-Weld Robot Platform.
10. Turn on the Gas Cylinder using the regulator and check for leaks. Fix as required.
11. Double-check the STEM-WELD Robot Platform installation.
12. Before turning the system on, insure facility power matches the required controller and weld power as specified on each unit.

Specifications are subject to change without notice for ongoing product modifications and improvements.