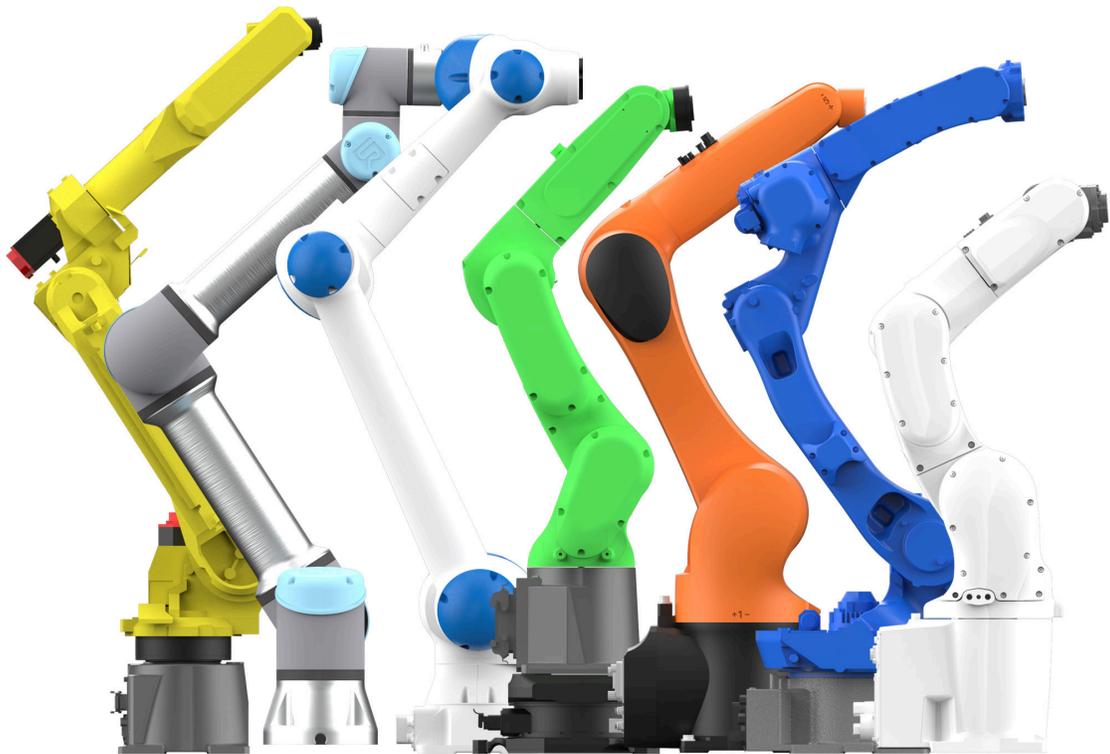


**R READY**



**FORGE/os**

Yaskawa Compatibility Guide

## SUPPORTED DEVICES

Here are the compatible robots organized by required robot controller.

YRC1000	YRC1000micro	YRC1000micro + PFL (collaborative robots)
<ul style="list-style-type: none"> <li>▪ GP7</li> <li>▪ GP8</li> <li>▪ GP12</li> <li>▪ GP25</li> <li>▪ GP25-12</li> <li>▪ GP35L</li> <li>▪ GP50</li> <li>▪ GP88</li> <li>▪ GP180</li> <li>▪ GP180-120</li> <li>▪ GP225</li> </ul>	<ul style="list-style-type: none"> <li>▪ GP7</li> <li>▪ GP8</li> <li>▪ GP12</li> <li>▪ MotoMini</li> </ul>	<ul style="list-style-type: none"> <li>▪ HC10</li> <li>▪ HC10DT</li> </ul>

**Note:** The Smart Pendant is not supported. Setup requires the standard Yaskawa teach pendant.

# YRC1000 REQUIREMENTS

Requirement	Part Number	Description
Minimum Yaskawa Software Version	YAS4.10	Minimum software version supported by Forge/OS.
Yaskawa Functional Safety (FSU) Software Option	179908-1	Required to jog the robot with the READY pendant.
Yaskawa FSU Expansion Kit, 8 IN/ 8 OUT, YRC1000. Includes: <ul style="list-style-type: none"> <li>FSU I/O Board</li> <li>FSU I/O Breakout</li> <li>FSU I/O Board Control Signal Cable</li> <li>FSU I/O Breakout Cable</li> </ul>	179909-1 178277-1 179765-1 183418-1 176790-2	Required to connect the READY pendant safety features and fence.
Yaskawa Standard I/O, 40IN/ 40OUT, 2 Safety IN/2 Safety OUT	180700-1	
Yaskawa Standard Pendant, YRC1000, W/8M Cable, W/O Software	177716-1	Required for Forge/OS to load and set tools (payloads and TCPs).
24V/2.5A Power Supply	e.g., Siemens 6EP1332-5BA00 or similar	Powers the READY pendant, safety controller, and more. Min./Max. current: 2.5/5.0 Amps.
Cat5e Shielded Ethernet Cable		Connects the robot controller to a IPC.
USB flash drive, 8GB or larger	R-400030	Required to transfer robot files from Forge/OS to the robot.

# YRC1000MICRO (NON-COLLABORATIVE) REQUIREMENTS

Requirement	Part Number	Description
Minimum Yaskawa Software Version	YBS2.43	Minimum software version supported by Forge/OS.
Yaskawa Functional Safety (FSU) Software Option	179908-1	Required to jog the robot with the READY pendant.
Yaskawa FSU Accessory Kit, 8 IN/8 OUT, YRC1000micro. Includes: <ul style="list-style-type: none"> <li>FSU I/O Board</li> <li>FSU I/O Breakout (68 PIN)</li> <li>FSU I/O Breakout Cable</li> <li>FSU Perimeter Software</li> </ul>	187028-1 185296-1 149259-3 186172-2 179502-22	Required to connect the READY pendant safety features and fence.
Yaskawa Standard I/O 8 IN/8 OUT, 3 Safety IN/3 Safety OUT	185558-1	
Yaskawa Standard Pendant, YRC1000, W/8M Cable, W/O Software	177716-1	Required for Forge/OS to load and set tools (payloads and TCPs).
24V/2.5A Power Supply	e.g., Siemens 6EP1332-5BA00 or similar	Powers the READY pendant, safety controller, and more. Min./Max. current: 2.5/5.0 Amps.
Cat5e Shielded Ethernet Cable		Connects the robot controller to a IPC.
USB flash drive, 8GB or larger	R-400030	Required to transfer robot files from Forge/OS to the robot.

# YRC1000MICRO + PFL (COLLABORATIVE) REQUIREMENTS

Requirement	Part Number	Description
Minimum Yaskawa Software Version	YBS2.43	Minimum software version supported by Forge/OS.
Yaskawa Functional Safety Software Option	179502-2	Required to jog the robot with the READY pendant.
Yaskawa FSU I/O Cable	186172-2	Required to connect the READY pendant safety features and fence.
Yaskawa FSU I/O Breakout (68 PIN)	149259-3	
Yaskawa Standard I/O 8 IN/8 OUT, 3 Safety IN/3 Safety OUT	185558-1	
Yaskawa Standard Pendant, YRC1000, W/8M Cable, W/O Software	177716-1	Required for Forge/OS to load and set tools (payloads and TCPs).
24V/2.5A Power Supply	e.g., Siemens 6EP1332-5BA00 or similar	Powers the READY pendant, safety controller, and more. Min./Max. current: 2.5/5.0 Amps.
Cat5e Shielded Ethernet Cable		Connects the robot controller to a IPC.
USB flash drive, 8GB or larger	R-400030	Required to transfer robot files from Forge/OS to the robot.

# CONFIRMING SOFTWARE REQUIREMENTS

Follow these steps to check the software version and options on your robot controller.

- 1 Plug the Yaskawa controller into a power source. Power the controller on and wait for it to boot up.



- 2 On the Yaskawa teach pendant, press the **MAIN MENU** button. Then press the black right arrow key until you have a gray menu on the left side of the screen.



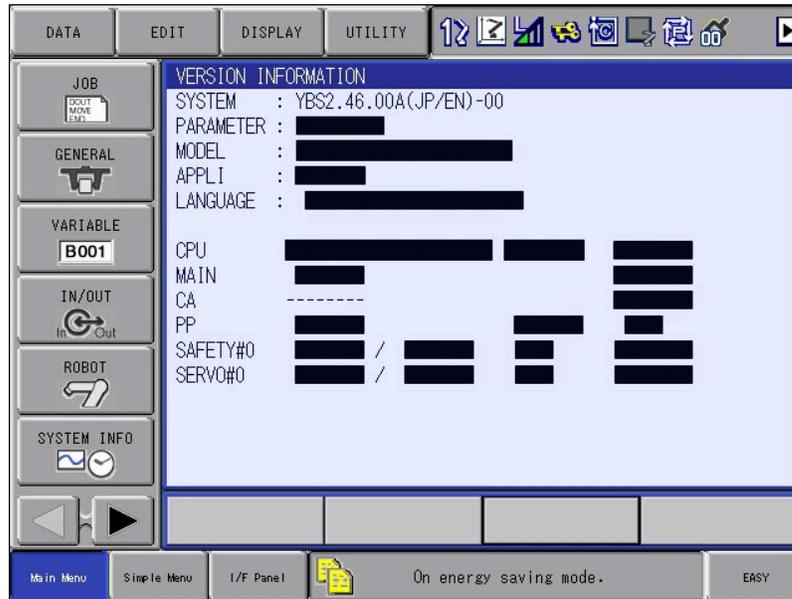
- 3 Follow these steps to find the firmware version:

- a Select **SYSTEM INFO**, then select **VERSION**.

*Tip: Use the arrows and **SELECT** button, or tap the screen to select.*



- b** The system version information appears on the screen. Look for the version number at the top by **SYSTEM:**. If your system version is older than the requirement, contact your Yaskawa Motoman distributor to upgrade.



**Important:** Before upgrading, take a backup of your controller.

- 4** On the Yaskawa teach pendant, follow these steps to view Yaskawa options:

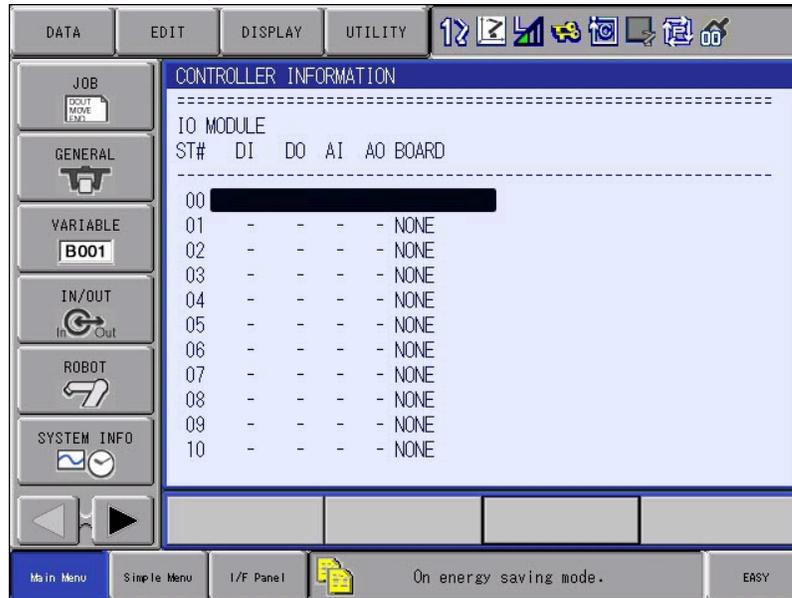
- a** Select **SYSTEM INFO**, then select **CONTROLLER INFORMATION**.



- b** Use the down arrow on the keypad to scroll down until you find **IO MODULE**.
- For the YRC1000, look for the **ASF01** board.
  - For the YRC1000micro, look for the **ASF30** board.

If you don't see the FSU IO Module for your controller, contact your Yaskawa Motoman distributor to upgrade.

**Tip:** Hold **SHIFT** and press the up/down arrows to scroll quicker.



- c** Use the down arrow on the keypad to scroll down until you find **OPTION FUNCTION**. Keep scrolling to look for **046 MotoPlus FUNC.** and **049 Functional Safety** in the list of options. If you don't see these options in the list, contact your Yaskawa Motoman distributor to upgrade.

