

# SRC YASKAWA PLC controlled robotics using a standardized interface









The Standard Robot Command Interface (SRCI) is the new industry standard for PLC controlled robotics\* and is the result of a large group of robot- and PLC manufacturers teaming up to create an interface which is best for the customer, not just for a single vendor.

The aim of this standardized interface: Whatever PLC brand and whatever robot brand – you use the same interface, and the same PLC code.

## TYPICAL REASONS FOR CHOOSING YASKAWA SRCI

- Deep integration of a robot in your PLC and HMI environment
- Lack of vendor specific robot skills at the end-user's facility
- Minimizing PLC programming effort by purchasing ready-to-use applications from your PLC vendor
- Virtual commissioning using a third-party SRCI digital twin solution

# **KEY BENEFITS**

- Industry standard interface
- Vendor independent
- No YASKAWA specific knowhow required
- No programming pendant required\*\*
- YASKAWA motion control and path accuracy
- Available for all major fieldbuses
- Built upon MotoLogix technology

\* PLC controlled robotics: The programming of the trajectories and (most of) the setup is done from within the PLC, using a library of function blocks. The path planning and kinematic calculations are still carried out by the robot controller.

\*\* The programming pendant might still be required during the first-time setup (especially on systems with Function Safety Unit). For this purpose, you can also consider the YASKAWA Software Pendant solution.

www.yaskawa.eu

# **YASKAWA SRCI Specifications**

Supported controllers	YRC1000 YRC1000micro (early 2024)
Number of robots	1
Supported robots	GP series (other series pending)
Additional axes	base axis (e.g. linear track or gantry)
SRCI feature set	All "core profile" functions
Supported fieldbuses	- EtherCAT - EtherNet/IP (optional: CIP safety) - POWERLINK - PROFINET (optional: PROFIsafe)

### **SCOPE OF DELIVERY**

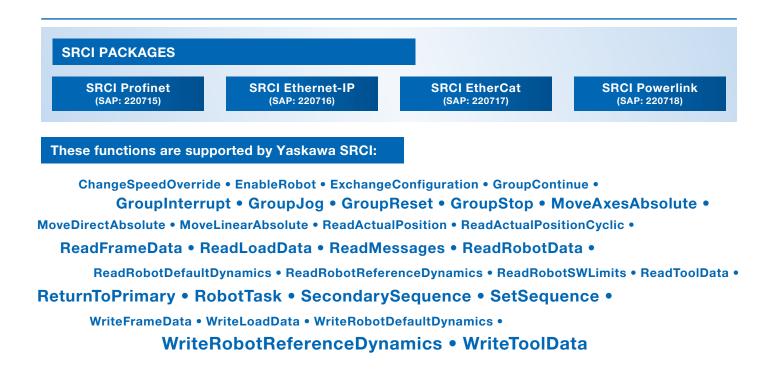
- 1. SRCI activation in the robot system software (paid option function)
- 2. SRCI interpreter app (free download)
- 3. SRCI is always delivered with FSU

To use YASKAWA SRCI in your project you also need to obtain a SRCI PLC library from your PLC vendor. This library is not supplied by YASKAWA.

### **FURTHER READING**

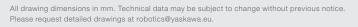
We created a documentation website for YASKAWA SRCI, which also includes a FAQ section.

https://srci.yaskawa.eu/faq/



#### Yaskawa Europe GmbH

Robotics Division Yaskawastraße 1 85391 Allershausen Germany Tel. +49 (0) 8166 90-0 robotics@yaskawa.eu www.yaskawa.eu





SRCI A-12-2023, A-No. 231031



