

Sysmac Library for NJ/NX/NY Controller

SYSMAC-XR013

Servo Press Library



Easily design systems to control devices for servo presses used in the press-fit process.

Issue 1

Shorter processing time is required.

Issue 2

Improvement in processing accuracy (tolerance etc.) and collection of detailed quality data are required.

Issue 3

The dedicated controller for a servo press increases machine cost.



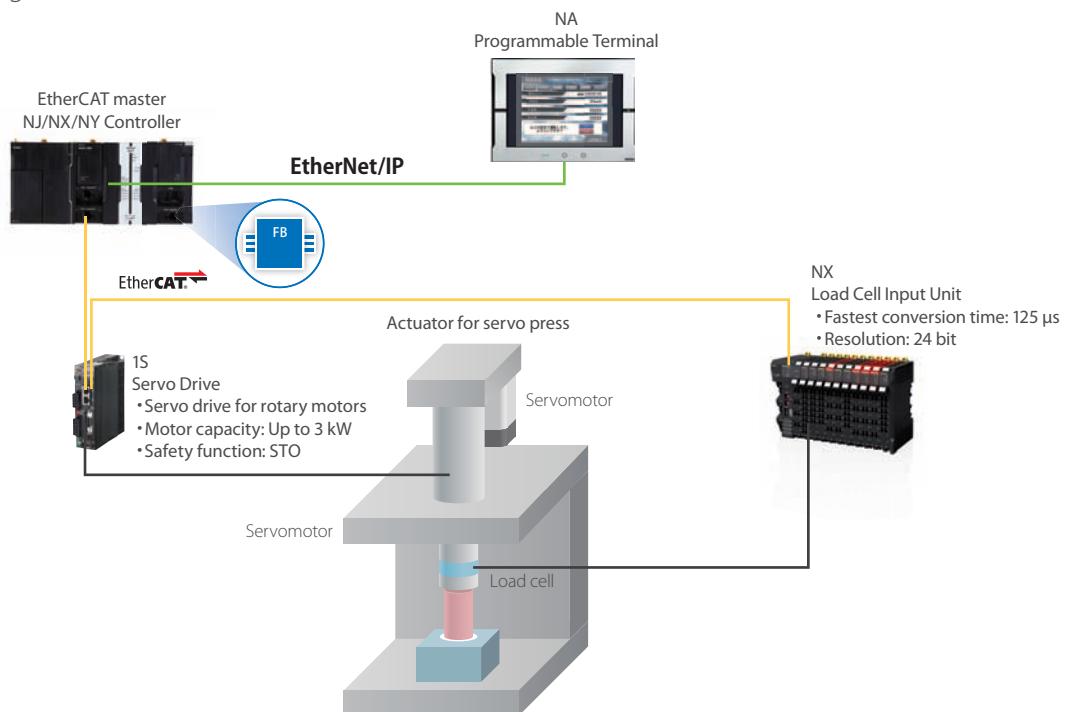
Servo Press Library offers solution!

Hardware (Sysmac family) and software (Sysmac Library) help improve both speed and quality of the press-fit process and eliminate the need for a dedicated controller for a servo press.



- The Function Blocks and Functions in this library control actuators for the servo presses that are used in processing machines such as press fitting machines.

System configuration



Compatible Models

Name	Model
Machine Automation Controller NJ/NX CPU Unit	NX701-1□□□
	NJ101-1□□□
	NJ501-□□□□
	NJ301-□□□□
	NX1P2-1□□□□□(1)
Industrial PC Platform NY IPC Machine Controller	NX102-□□□□
	NY5□□-1
Automation Software Sysmac Studio	NY5□□-5
	SYSMAC-SE2□□□
NX Load Cell Input Unit	NX-RS1201
1S Servo Drive with Built-in EtherCAT Communications	R88D-1SN□-ECT

Note. Refer to "Sysmac Library Catalog (P102)" for applicable version.

Function Block (FB)/Function (FUN) Specifications

Name	FB/FUN name	Description
Program operation	Single-axis Program Operation	SP_SingleAxisPrgOpr
	Program Status Control	SP_PrgStatusCtrl
	Step Completion Determination	SP_StepCompleteJudge
	Step Load Alarm Determination	SP_StepLoadAlarm
	Program Load Alarm Determination	SP_PrgLoadAlarm
Single-axis motion control	Single-axis Control	SingleAxisCtrl
	Torque-to-Load Conversion	TorqueToLoad
	Load-to-Torque Conversion	LoadToTorque
Save program operation results in CSV format	Program Operation Results Recorder	PrgOrgRsItRec
	Write Program Operation Results to SD Memory Card	PrgOprRsItCSVWrite
Save trace results in CSV format	Add Program Operation Trace Records	PrgOprTracePut
	Add Program Operation Trace Records 2	PrgOprTracePut2
	Write from Program Operation Trace Recorder to SD Memory Card	PrgOprTraceCSVWrite
	Write from Program Operation Trace Recorder to SD Memory Card 2	PrgOprTraceCSVWrite2
Display trace results on HMI	Broken Line Graph Trace Data Preparation	XYDataRec
	Broken Line Graph Trace Data Preparation 2	XYDataRec2
	Broken Line Graph Display Data Conversion	XYDataToGraph
	Broken Line Graph Display Data Conversion 2	XYDataToGraph2

Note. A function block or function that the last number of its name is "2", supports a variable-length array. It is available for unit version 1.18 or later.

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Note: Do not use this document to operate the Unit.

OMRON Corporation Industrial Automation Company

Kyoto, JAPAN

Contact: www.ia.omron.com

Regional Headquarters

OMRON EUROPE B.V.

Wegalaan 67-69, 2132 JD Hoofddorp

The Netherlands

Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ASIA PACIFIC PTE. LTD.

No. 438A Alexandra Road # 05-05/08 (Lobby 2),
Alexandra Technopark,
Singapore 119967

Tel: (65) 6835-3011/Fax: (65) 6835-2711

OMRON ELECTRONICS LLC

2895 Greenspoint Parkway, Suite 200

Hoffman Estates, IL 60169 U.S.A.

Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

Authorized Distributor:

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