

# MC Command Table Library



✓ Make programming for continuous positioning easy.

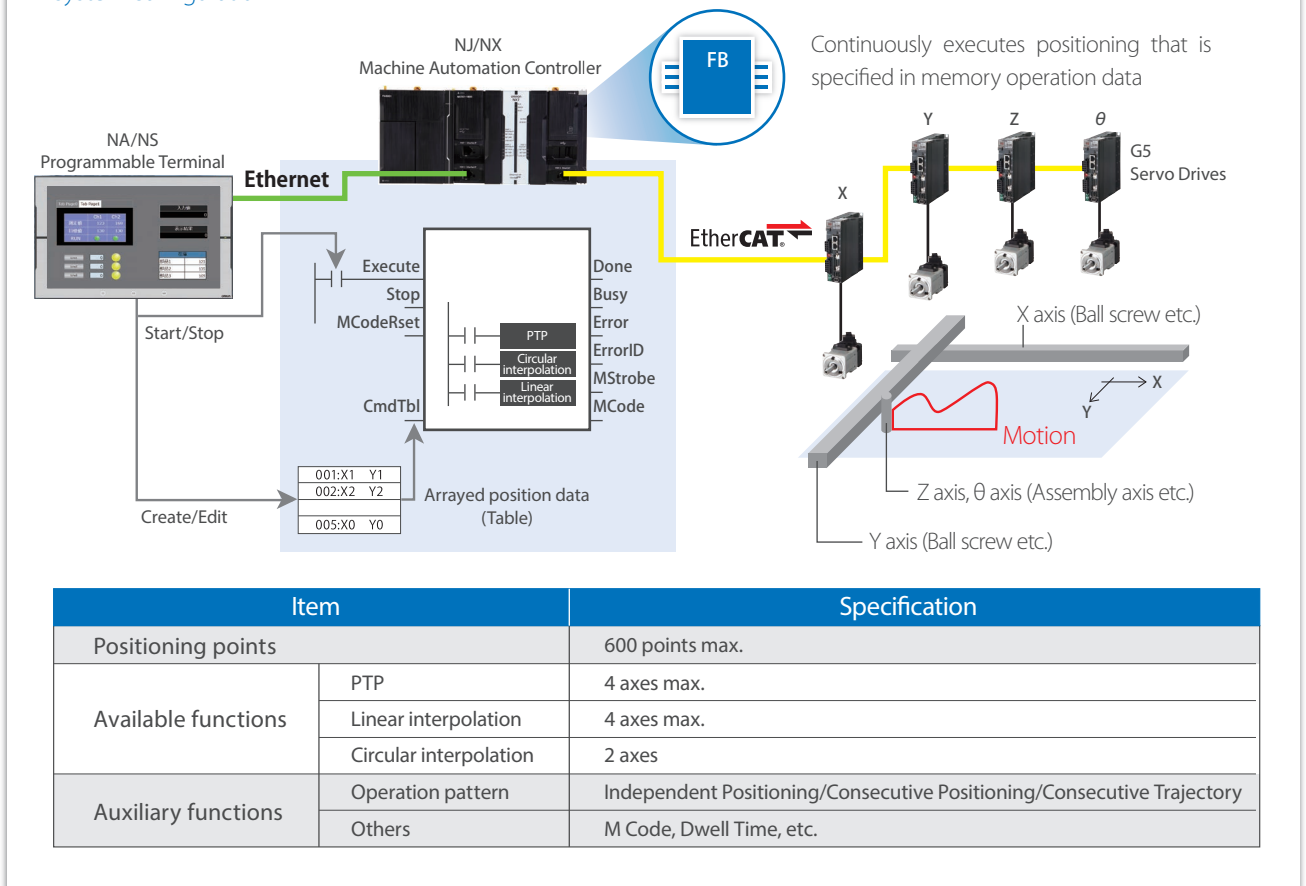
**Issue 1** PLCopen® Function Blocks for Motion Control do not support the familiar command table (memory operation) that is an efficient method for simple continuous operation

**Issue 2** The program must be modified to change the operation pattern.

## MC Command Table Library offers solution!

The Command Table (Memory Operation) Function Block allows you to program motion control using the familiar command table (memory operation). No program modification is required to change the operation pattern.

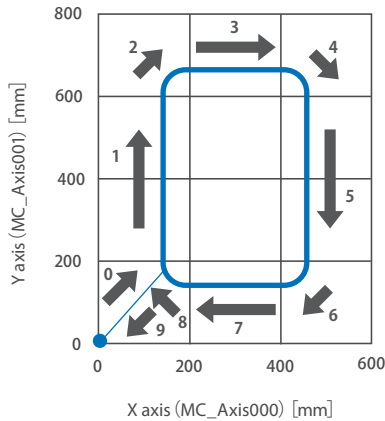
### System configuration



Item		Specification
Positioning points		600 points max.
Available functions	PTP	4 axes max.
	Linear interpolation	4 axes max.
	Circular interpolation	2 axes
Auxiliary functions	Operation pattern	Independent Positioning/Consecutive Positioning/Consecutive Trajectory
	Others	M Code, Dwell Time, etc.

## [Example] Path control using the Command Table (Memory Operation) Function Block

With a single Command Table (Memory Operation) Function Block, you can perform path control with multi-execution of PTP, linear interpolation, and circular interpolation instructions as shown below.



Arrayed position data (Table)

001:X1	Y1
002:X2	Y2
005:X0	Y0

MCC mdTbl_Instance	
\\OmronLib\MC_ComdTblMCCmdTbl	
■ Axes Group	— — Axes Group
■ CmdTbl	— — CmdTbl
■ Ensble	Ensbled
■ Execute	Done
■ StepMode	CurrentSeqNo
■ Step	MStrobe
■ SeqNoSet	MCode
■ SeqNo	DigitalOutputs
■ MCodeReset	Busy
	CommandAborted
	Error
	ErrorID
	ErrorID Ex

### Compatible Models

Name	Model	Version
Machine Automation Controller NJ/NX CPU Unit	NX701-□□□□/ NJ101-□□□□*1 *2	Version 1.10 or later
	NJ501-□□□□/ NJ301-□□□□	Version 1.10 or later
Automation Software Sysmac Studio	SYSMAC-SE2□□□	Version 1.14 or higher
G5 Servo Drive with Built-in EtherCAT Communications	R88D-KN□□□-ECT	Version 2.10 or later

\*1. This Library is not available for NJ101-90□□ CPU Units.

\*2. When you use this function block with NJ101-10□□, you can use a maximum of two real servo axes.

### Function Block (FB) Specifications

Name	FB name	Description
Command Table (Memory Operation)	MCCmdTbl	Continuously executes positioning that is specified in memory operation data for axes groups that are defined in the MC Function Module.

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

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