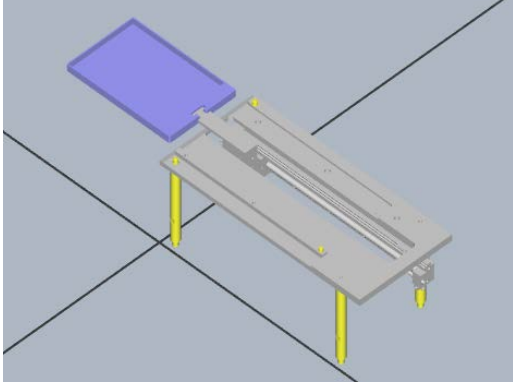
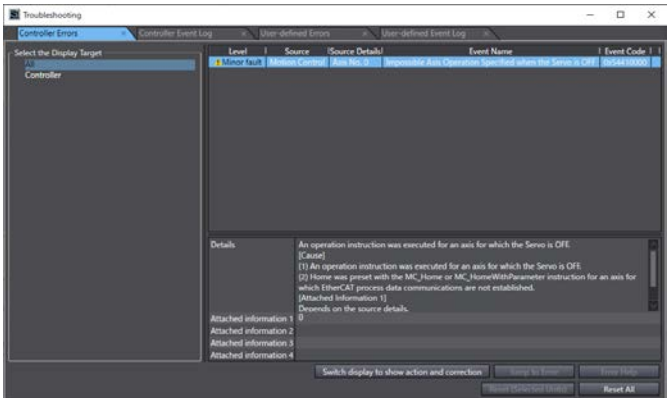
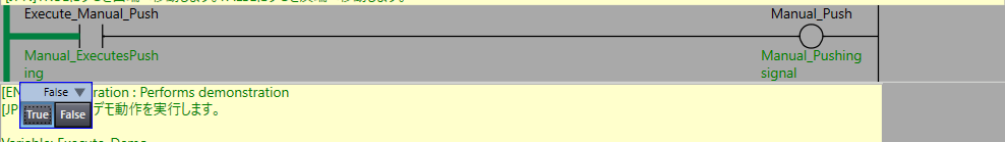
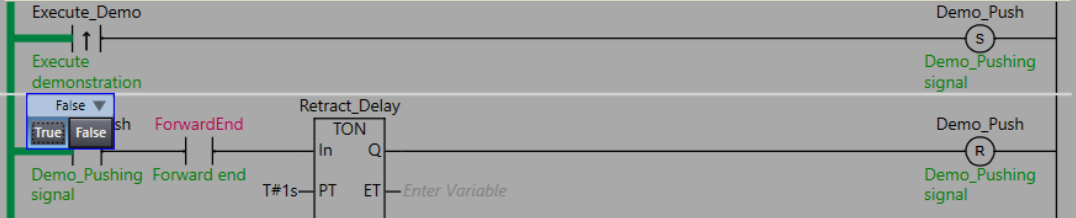
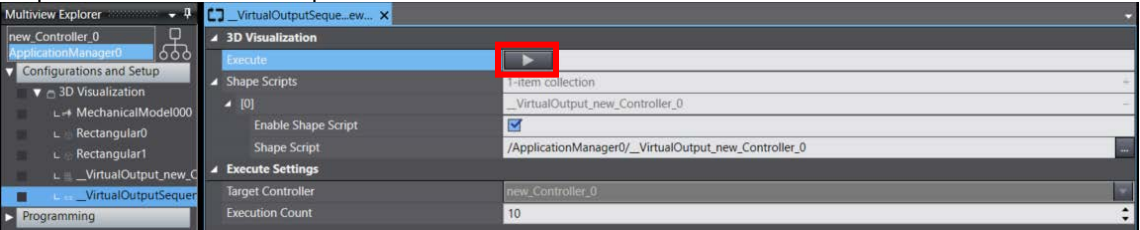


3D Simulation Sample Program No.27	Tray pulling mechanism using cylinder	
Basic function	Performs manual operation and demonstration.	
3D image	 <p>CAD data: MISUMI Corporation inCAD Library No.000138 Tray Pulling Mechanism The CAD data was edited by OMRON. Refer to the Sysmac Studio 3D Simulation Function Operation Manual (W618-E1) for the editing procedures.</p>	
File name	3DSimulationSample_27_Tray_pulling_mechanism_using_cylinder_V1_00.smc2	
Applicable model	Sysmac Studio (64-bit version)	SYSMAC-SE2xxx Ver.1.40 or higher
	Sysmac Studio 3D Simulation Option	SYSMAC-SA4xxL-64
Used language	Ladder programming	
Used materials and equipment	-	
Function description	<ul style="list-style-type: none"> When the Execute_Manual_Push variable (Boolean) changes to TRUE, the cylinder moves to the forward end. When the Excute_Demo variable (Boolean) changes to TRUE, a demonstration is performed. 	
Mechanical component types provided on the Sysmac Studio	Air Cylinder (Sigle Solenoid Type)	
Precaution for use	<ul style="list-style-type: none"> This sample program is specifically prepared for 3D simulation. Do no use this program in actual machine operation. MISUMI Corporation may not offer all parts in each application design. Available parts can only be purchased separately not as a unit shown in each application design. MISUMI Corporation does not guarantee quality, accuracy, functionality, safety or reliability for the combination of the parts in each application example. 	
Restrictions and others	<ul style="list-style-type: none"> Error processing is not included in the sample program. To reset errors, select Troubleshooting from the Tools Menu, then click the Reset All button. 	

<p>Application example</p>	<p>1. Manual Operation: Turns the solenoid switch ON or OFF manually..</p> <p>[ENG]Manual Operation : Turns the solenoid switch ON or OFF manually [JPN]手動運転 : ソレノイドスイッチを手動操作でON/OFFします。</p> <p>Variable: Execute_Manual_Push [ENG]When the value of this variable changes to TRUE, the cylinder moves to the forward end. When it changes to FALSE, the cylinder moves to the backward end. [JPN]TRUEになると出端へ移動します。FALSEになると戻端へ移動します。</p>  <p>2. Demonstration: Performs demonstration.</p> <p>[ENG]Demonstration : Performs demonstration [JPN]デモ動作 : デモ動作を実行します。</p> <p>Variable: Execute_Demo [ENG]A demonstration is performed when the value of this variable changes to TRUE. [JPN]立ち上がり時にデモ動作を開始します。</p>  <p>(Additional information)</p> <p>To confirm 3D operation, select 3D Visualizer from the View menu. You can confirm the operation on the 3D Visualizer.</p> <p>After performing a program simulation on the Sysmac Studio, execute the virtual output script for the mechanical component, in the following procedure.</p> <p>Select ApplicationManager0 – Configuration and Setup – 3D Visualization - _VirtualOutputSequence_new_Controller_0 in the Multiview Explorer, and execute the virtual output script for the mechanical component.</p> 
<p>Related manuals</p>	<p>Sysmac Studio Version 1 Operation Manual (W504-E1) Sysmac Studio 3D Simulation Function Operation Manual (W618-E1)</p>

Variable Tables

Input Variables

Meaning	Name	Data type	Default	Range	Description
Manual Operation	Execute_Manual_Push	BOOL			When the value of this variable changes to TRUE, the cylinder moves to the forward end. When it changes to FALSE, the cylinder moves to the backward end.
Demonstration	Execute_Demo	BOOL			A demonstration is performed when the value of this variable changes to TRUE.

Output Variables

Meaning	Name	Data type	Range	Description
Solenoid Switch Output	Push	BOOL		TRUE while a signal is output to the solenoid switch.

■ Version History

Version	Date	Contents
1.00	July 2020	Original production.

■ Note

This document explains the function of the sample programs specifically prepared for 3D simulation. It does not provide information of restrictions on the use of Units and Components or combination of them. For actual applications, make sure to read the operation manuals of the applicable product

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