



Single-Axis Positioning with program table operation function

## Sigma-5 Indexer Module

The Sigma-5 series servo drives with Indexer Module provide a high-level positioning without using a motion controller. With a PLC or a PC as the host controller, an unbelievably high level of performance can be achieved.

### Simple

- ▶ The configuration tool SigmaWin+ provides a wizard that will interact with you in a dialog format to help you setup and change the settings for your application.
- ▶ Table editing (Program table, Zone table, and JOG speed table) and parameter editing for ease of use.
- ▶ Status monitoring and a trace display enable best diagnosis.

### Smart

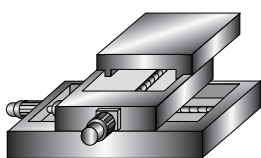
- ▶ The use of program tables requires no special programming language knowledge.
- ▶ Up to 256 positioning points can be programmed.
- ▶ A wide range of functions such as external positioning, JOG speed, homing, and programmable signal outputs are available.
- ▶ 19 digital inputs and 16 digital outputs are standard.
- ▶ Easy ASCII commands via RS 422/485

### Speedy

- ▶ Realizes high-speed, high-accuracy positioning due to combination with the high-performance Sigma-5 series.
- ▶ Intelligent autotuning and innovative anti-vibration suppression for quick setup.

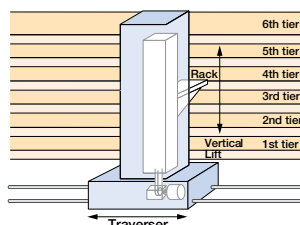
### Applications

#### Point-to-point positioning



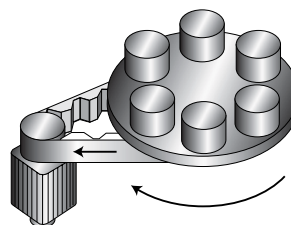
X-Y Table

#### Fixed point positioning



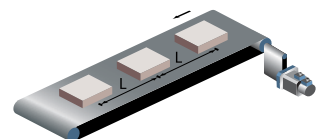
Unmanned Warehouses

#### Station positioning (Indexing)



Rotary Table

#### Feeding



Conveyor



## Basic Specifications

Items	Specifications	
Applicable SERVOPACK	Σ-V Series SGDV-□□□□□□ SERVOPACK, all models	
Power Operating Conditions	Power Supply Method	Supplied from the control power supply of the SGDV SERVOPACK
	Surrounding Air/Storage Temperature	0°C to +55°C/-20°C to +85°C
	Ambient/Storage Humidity	90% RH or less (with no freezing or no condensation)
	Vibration/Shock Resistance	4.9 m/s <sup>2</sup> / 19.6 m/s <sup>2</sup>
	Protection Class/Pollution Degree	Protection class: IP10, Pollution degree: 2 Do not use SERVOPACKs in the following locations: <ul style="list-style-type: none"> <li>• Locations subject to corrosive or explosive gases</li> <li>• Locations subject to exposure to water, oil, or chemicals</li> <li>• Locations subject to dust, including iron dust, and salts</li> </ul>
	Others	Do not use SERVOPACKs in the following locations: Locations subject to static electricity noise, strong electromagnetic/magnetic fields, radioactivity
Altitude	1,000 m or less	
Applicable Standards *	UL508C EN50178, EN55011/A2 Group1 Class A, EN61000-6-2, EN61800-3, EN61800-5-1, EN954-1, IEC61508-1 to 4	
RoHS Directive	Compliant	
Control Method	Programm Table Method	Program table positioning in which steps are executed sequentially by commands given through contact input or serial communications Positioning in which station numbers are specified by commands given through contact input or serial communications
	Max. Numbers of Steps	256
	Max. Number of Tables	256
	Max. Number of Stations	256
Serial Communications Method	Serial command by 1-channel ASCII code or MEMOBUS Communications specifications: RS-422/485 (50 m max.), RS-232C (3 m max.) Connection topology: Multi-drop connection (16 axes max.) Baud rate: 9600, 19200, 38400 bps	
Other Functions	Registration (positioning by external signals), homing	
Display Function	LED	
	Lit during parameter setting, monitoring, executing utility functions, etc.	

\*Applicable when the INDEXER module is attached to the command option attachable type SERVOPACKs.

## Best in Class Servo Drives

The Sigma-5 servo system fits in motion applications demanding high dynamic and accuracy, fast positioning and perfect multi-axes synchronisation.



Specifications are subject to change without notice for ongoing product modifications and improvements.  
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