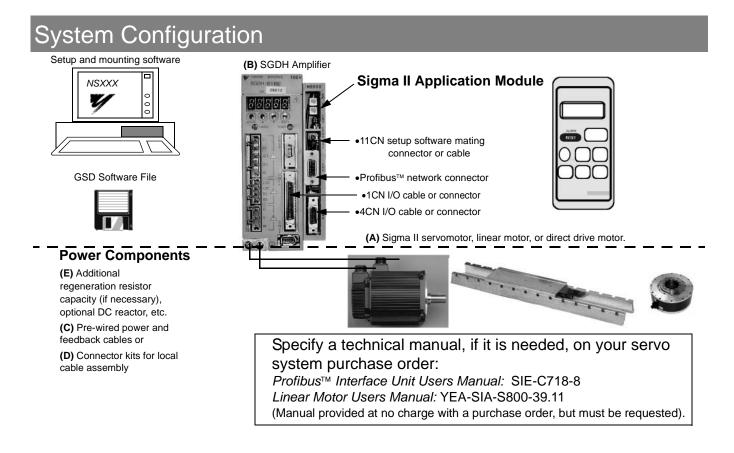
# **Selecting Your Sigma II Indexer System**

Specify part number JUSP-NS500, the indexer add-on application module.

Use the tables beginning on the following page to specify choice of indexer interface cables, mating connectors only, set-up and monitoring tools, and software.



#### **Power Components**

(motor, amplifier, and connections for power and feedback)

Select the required power components (servomotor, power and feedback connectors or pre-wired cables, amplifier, regenerative packs, etc.) from the following catalog pages.

Use this table or the Yaskawa publications referenced below to determine which catalog section describes the best servomotor for the application.

Application Requirements (Maximum)			Number	Number System Voltage and Sigma II Servomotor Series				Selection Guide for
Speed (rpm)	Rated Torque oz • in [lb • in]	Peak Torque oz • in [lb • in]	of Motor Sizes	i i i ac	200V <sub>ac</sub> Single-phase	200V <sub>ac</sub> Three-phase	480V <sub>ac</sub> Three-phase	Power Components Page Number *
5000	338	1010	6	SGMAH	SGMAH	—	—	11
5000	676	2027	5	SGMPH	SGMPH	—	—	29
3000	[845]	[1988]	10	—	—	SGMGH	—	57
5000	[140]	[422]	6	—	—	SGMSH	—	85
3000	[845]	[1988]	10	—	—	—	SGMGH	127
5000	[140]	[422]	6	—	—	—	SGMSH	139
6000	[43]	[190]	2	—			SGMUH	139
2000	[1240]	[6120]	5	—	—	—	SGMBH	165

\* Yaskawa publication: Sigma II Servo System Product Catalog Supplement G-MI#99001x-Sigma II, Linear Motor Catalog KAE-S800-39.10, Direct Drive Motor Catalog YEA-KAA-DDM-1.

#### Sigma II Indexer Selection

Use the servomotor and amplifier selection of this catalog for specification and selection of Sigma II servomotor and servo amplifier.

Component Description	Part Number	Comments	Item Class
Sigma II Add-on Indexer Application Module	JUSP-NS500	Mounting hardware requirements: one ground strap mounting screw. (See supplementary information on the next page.)	Stock

For 480VAC large capacity amplifiers (22 - 55kW), refer to the Sigma II catalog for amp dimensions.

## Indexer I/O Interface Cable Selection

Component D	Description (E)	Part Number	Comments	Item Class
Input/Output 1CN Cable & Transition Terminal Block		JUSP-TA50P	35mm DIN rail mountable; the cable length is 0.5m.	
Input/Output 1CN Cable with Pigtail Leads		JZSP-CKI01-□(A)*	Use the following key to specify required cable length (last digit of the part number): 1: 1m (standard) 2: 2m 3: 3m	Stock
Input/Output 4CN Cable with Pigtail Leads		CKI-NS300-□□	Use the following key to specify required cable length (last two digits of the part number): 01: 1m (standard) 02: 2m 03: 3m	

Input/Output 1CN Cable Cable with Female D-Sub output Connec- tor*	Dil	JZSP-CKI0D-□□**	Use the following key to specify required cable length (last two digits of the part number): D50: 0.5m 01: 1m (standard) 02: 2m 03: 3m
Input/Output 1CN+4CN Cable with Female D-Sub output Connec- tor* Applicable only for SGDH-1E (15 kW) and below.		CKI-NS300D-□□** (for use with NS500 Indexer)	Use the following key to specify required cable length (last two digits of the part number): D50: 0.5m 01: 1m (standard) 02: 2m 03: 3m

\* The "(A)" at the end of the cable part number indicates the revision level. Revision level may be subject to change prior to this catalog reprinting.

\*\* 50 Pin Female D-Sub output connector mates to customer supplied third party terminal block. (e.g., Wago #289-449, Weidmuller #919658, Phoenix #2283647, Amphenol/Sine #20-51039, and many others).

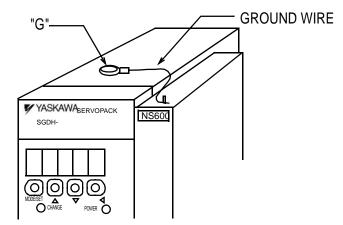
### Mating Connector Selection

Component E	Description <b>(E)</b>	Part Number	Comments	Item Class
1CN Mating Connector		JZSP-CKI9	for SGDH I/O 50-pin	
4CN Mating Connector		DE-9406973	Solder type with cover	Stock
3CN Peripheral Mating Connector	—	YSC-1	_	
CN11 Setup Software Mating Connector	_	DE9404559	Strongly advised: YS-16 cable (next page)	
Profibus Mating Connector	_		Standard 9-pin male D-Sub connector. (Note: termination resistors are required for the end of the network.)	

#### Supplementary Information

For grounding, connect the ground wire of the Sigma II Indexer application module to the point marked "G" on the SGDH servo amplifier. Refer to the following table for the proper screw size.

Servo Amplifier "G" Screw		Comments
SGDH-A3-02BE SGDH-A3-10AE	M3 x 10 (round head phillips with split lock washer and flat washer	One supplied with NS500
SGDH-15-50AE SGDH-15-50DE	M4 x 10 (round head phillips with split lock washer and flat washer	One supplied with NS500
SGDH-60-1EAE SGDH-60-1EDE	M4 x 8 (round head phillips with split lock washer and flat washer	One supplied with NS500 Use front panel side screw hole.



Example: For SGDH (30W to 5.0kW)

# Peripheral Device Selection

Component D	escription (E)	Part Number	Comments	Item Class
Hand-held Digital Operator Panel		JUSP-OP02A-1 and JZSP-CMS00-1	Portable unit with 1m adapter cable for Sigma II Indexer	Stock
Absolute Encoder Battery		JZSP-BA01	3.6V, 1000mAh (lithium battery)	
Setup Software Interface Cable for CN10	_	YS-16	Pre-wired 1.5m cable with 9-pin connector (RS232) for NSXXX software	

# Sigma II Network Tools and Documentation

Component D	Description (E)	Publication Number*	Comments	Item Class
Fieldbus Tools and documentation*	0	YEA-CD-S800- 34.1	<ul> <li>Includes :</li> <li>Yaskawa's NSXXX monitoring and set-up software for Windows 95, Windows 98, and Windows NT.</li> <li>Electronic Data Sheet (GSD) software for Profibus™ configuration software manager.</li> <li>NS500 User's Manual.pdf.</li> </ul>	Stock

\*Available by request. Contact: literature@yaskawa.com.