



SmartPak / PulsePak

Motion Controller Kits

Get your application up and running fast with Nippon Pulse's new pre-packaged solutions!

Introducing the **SmartPak** and **PulsePak** motion controller kits, each of which contains a hybrid stepper motor with integral encoder, a servo controller (either a programmable controller-driver or a pulse & direction driver) and a cable kit to connect everything together.

Both kits feature:

- Nippon Pulse hybrid stepper motor with integral 1000 or 2500 ppr encoder
- Motor available in NEMA sizes 8 through 34
- 24 inches of cable with connectors
- Real-time servo / closed-loop control
- Easy BASIC programming controller
- Powerful built-in multi-thread processor
- Wizard for motion system tuning/autotuning
- Auto-force control programming
- USB/RS-485 Serial communication
- ASCII, MODBUS and RTU protocols supported
- Opto-isolated I/O
- Real-time edge analytics (option)
- Motor power 24 to 48 VDC
- Compatible with: 2 phase stepper, 3 phase brushless servo, 3 phase linear servo, DC brushed, voice coil motors

SmartPak *Features*

- Nexus all-in-one servo driver and controller
- Motor and actuator tuning
- Standalone Control Mode A-SCRIPT programs
- Networked multi-axis control mode (RS-485)
- 8 Opto Input (+Limit, -Limit, Home), 3 Opto Out
- 3 multi-thread program storage
- STO (safe torque off) safety feature
- 2ndSight data port for Cloud Analytics

The PulsePak and SmartPak kits are ideal for use in a wide variety of automation applications including:

- Factory Automation
- Lab Automation
- Semiconductor
- Packaging and Labeling Machines
- Food Processing

PulsePak *Features*

- Nexus Pulse and Direction driver
- 3 Opto In (+Limit, -Limit, Home), 2 Opto Out



Nippon Pulse
Your partner in motion control

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Part Numbering Example

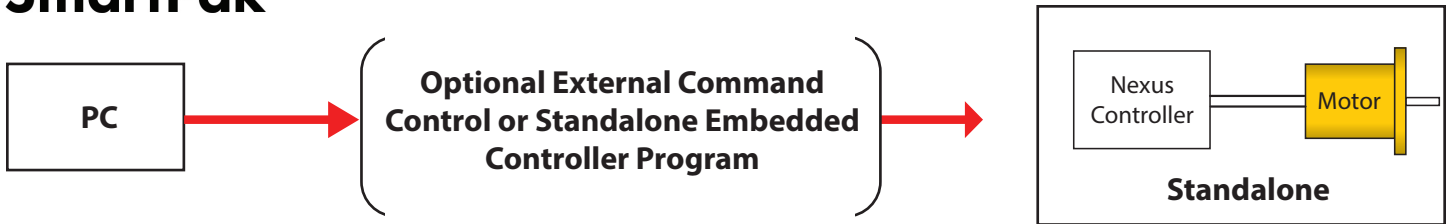
Kit Model Number: **MCK-17 D2 E1-NX-SCX**

Series:	NEMA Size:	Motor Winding:	Stack Length:	Encoder:	Controller Kit:
MCK	8 - 20mm	E	1 - Single	1 - 1000 ppr	NX-SCX = Nexus SmartPak
	11 - 28mm	D	2 - Double		
	14 - 35mm	A	3 - Triple	NX-SPX = Nexus PulsePak	
	17 - 42mm	F			
	23 - 57mm	N			
	24 - 60mm	R			
	34 - 86mm	H			
	J				

Therefore, this part number indicates a SmartPak kit with NEMA 17 motor with double stack (PJE42T-40D14) and 1000 ppr (4000 cpr) encoder.

Visualizations

SmartPak



PulsePak



Purchasing your motion controller kit is easy – order a single part number, and all necessary components will be included in a single box. Bulk shipments also available with reduced packaging. Contact an applications engineer today!



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