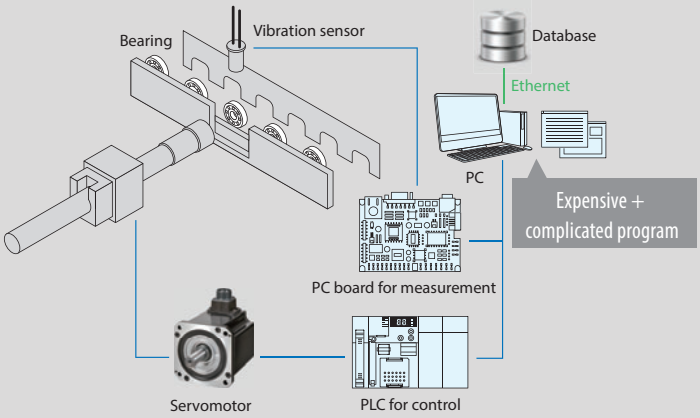
High-speed inspection

Problem

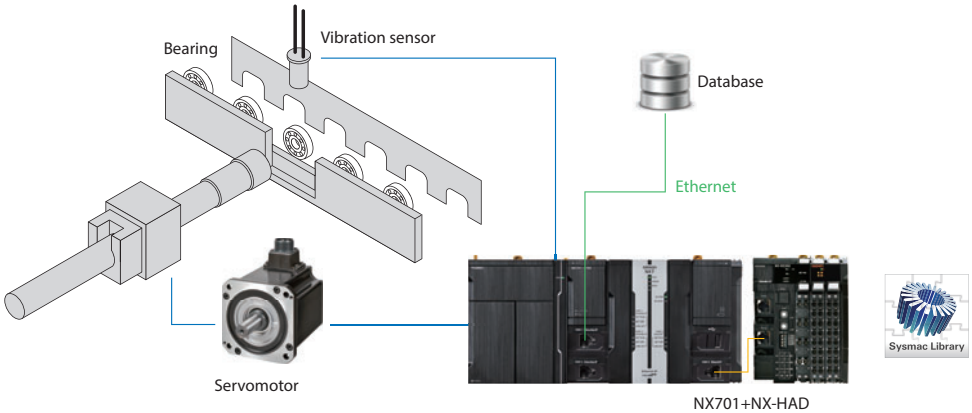
In the inspection process, high-speed data is stored in the database and judged by the special PC that is expensive and requires special maintenance.

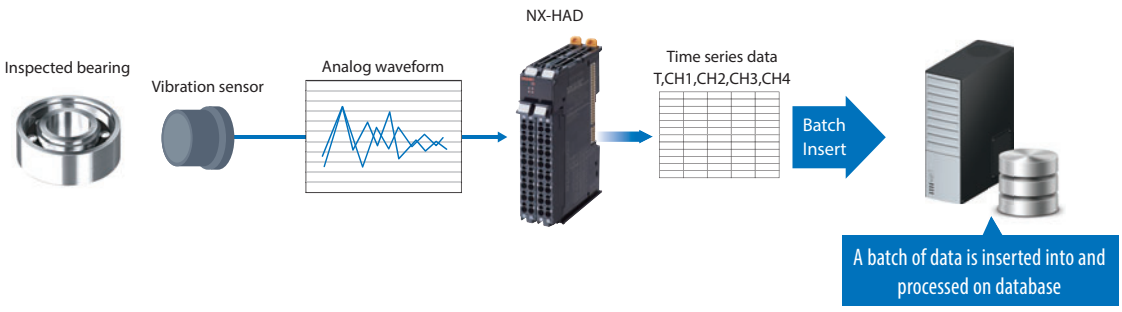


Database direct connection CPU unit version 2.0 offers solution!

Reduce complexity, costs, and time without need for PC

Batch Insert stores high-speed inspection data in a database when the NX-HAD High-speed Analog Input Unit is connected to the Database Connection CPU Unit (database direct connection version 2.0).
Stored Procedure Call carries out complex processing (e.g., judgment) on the database server, eliminating the need for a PC.





What is Stored Procedure?

Stored Procedure is one of the database functions.
A group of SQL statements is stored in a database, enabling complex processing to be executed with one call.
Stored Procedure Call to call a stored procedure in a database from the controller has been added to version 2.0.
Complex arithmetic processing can be performed on the database, simplifying programming for controllers, reducing processing time, and ensuring data consistency on the database.

Ordering Information

Database Connection CPU Units

NX701 CPU Unit

Product name	Specifications			Power consumption	Model
	Program capacity	Memory capacity for variables	Number of motion axes		
NX701 CPU Unit 	80MB	4 MB: Retained during power interruption 256 MB: Not retained during power interruption	256	40 W (including SD Memory Card and End Cover)	**NX701-1720**
			128		**NX701-1620**

NX102 CPU Unit

Product name	Specifications					Model
	Program capacity	Memory capacity for variables	Maximum number of used real axes			
				Number of motion axes	Single-axis position control axes	
NX102 CPU Unit 	5MB	1.5 MB: Retained during power interuption 32 MB: Not retained during power interuption	12	8	4	**NX102-1220**
			8	4	4	**NX102-1120**
			6	2	4	**NX102-1020**
			4	0	4	**NX102-9020**

High-speed Analog Input Units

Product name	Analog input section					Trigger input section		Model
	Number of points	Input range	Resolution	Input method	Conversion time	Number of points	Internal I/O Common	
High-speed Analog Input Unit	4 points	Voltage: • -10 to 10 V (-32000～32000) • -5 to 5 V (-32000～32000) • 0 to 10 V (0～32000) • 0 to 5 V (0～32000) • 1 to 5 V (0～32000) Current: • 0 to 20 mA (0～32000) • 4 to 20 mA (0～32000)	• Input range of -10 to 10 V or -5 to 5 V 1/64000 (full scale) • Other input range 1/32000 (full scale)	Differential input	5 µs/4 Ch	4 points	NPN	**NX-HAD401**
						4 points	PNP	**NX-HAD402**

Note: Databases supported by version 2.0: Microsoft SQL server, Oracle Database, MySQL, and PostgreSQL.

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

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