# **■**Ordering Information

Product name	Specifications				Current consumption (A)			
	I/O capacity/Mountable Units (Expansion Racks)	Program capacity	Data memory capacity	LD instruction execution speed	5 V	24 V	Model	Standards
CJ1-H-R CPU Units	2,560 points/40 Units max. (3 Expansion Racks max.)	250K steps	448K words DM: 32K words EM: 32K words x 13 banks	0.016 μs	0.99 (See note.)	_	<u>NEW</u> CJ1H-CPU67H-R	- UC1, CE, N, L
		120K steps	256K words DM: 32K words EM: 32K words x 7 banks		0.99 (See note.)	_	<u>NEW</u> CJ1H-CPU66H-R	
		60K steps	128K words DM: 32K words EM: 32K words x 3 banks		0.99 (See note.)	_	<u>NEW</u> CJ1H-CPU65H-R	
		30K steps	64K words DM: 32K words EM: 32K words x 1 bank		0.99 (See note.)	_	<u>NEW</u> CJ1H-CPU64H-R	

Note: Current consumptions include current for a Programming Console. Add 0.15 A per Adapter when using NT-AL001 RS-232C/RS-232A Adapters. Add 0.04 A per Converter when using CJ1W-CIF11 RS-422A Converters.

- The standards indicated in the "Standards" column are those current for UL, CSA, cULus, cUL, NK, and Lloyd standards and EC Directives as of the end of March 2007. The standards are abbreviated as follows: U: UI: U1: U1: U1: (Class I Division 2 Product for Hazardous Locations), C: CSA, UC: cULus, UC1: cULus (Class I Division 2 Product for Hazardous Locations), CU: cUL, N: NK,
- Ask your OMRON representatives for the conditions under which the standards were met.

# Warranty and Limitations of Liability

## WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

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This catalog mainly provides information that is necessary for selecting suitable models, and does not contain precautions for correct use. Always read the precautions and other required information provided in product operation manuals before using the product.

- The application examples provided in this catalog are for reference only. Check functions The application examinises provided in this catalog are for reference only. Check functions and safety of the equipment before use.
   Never use the products for any application requiring special safety requirements, such as
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Note: Do not use this document to operate the Unit.

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Note: Specifications subject to change without notice.

Cat. No. R148-E1-01



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realizing

# These Amazingly Fast Controllers Take High-speed Control into the Microsecond Realm

# Nothing But Speed

Greater speed has been achieved for essentially all processes that affect the cycle time of the CJ1-H-R. The result is a cycle time below 1 ms, representing the fastest class of controller in the industry.

# **Outstanding Control Performance**

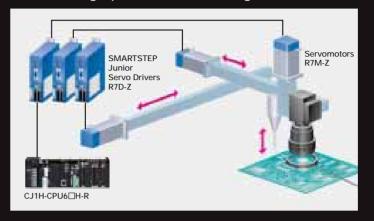
Scan time	870 µs for 30K steps
PCMIX	17.7
Basic instructions	LD: 16 ns, OUT: 16 ns
Floating-point instructions	Addition/subtraction: 0.24 μs, Multiplication: 0.24 μs
Interrupt response	40 μs

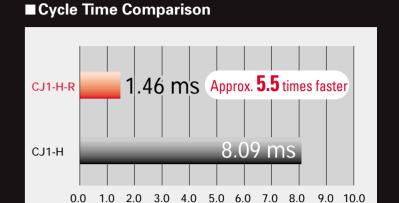
 Conditions 30K steps, 7:3 ratio between basic and special instructions, 128 inputs and 128 outputs

The "R"
CPU Units
achieve the levels
of precision and
speed required by
today's machines with
the highest control
performance in
the industry.

# True Speed Evident in Actual Application

Example: Drilling PCBs with High-speed, High-precision Positioning





Cycle time (ms)

• Conditions 6:3:1 ratio of basic, special, and floating-point instructions, 30K steps with 128 inputs and 128 outputs, 2 Analog Input Units, and 2 Position Control Units (4 axes)

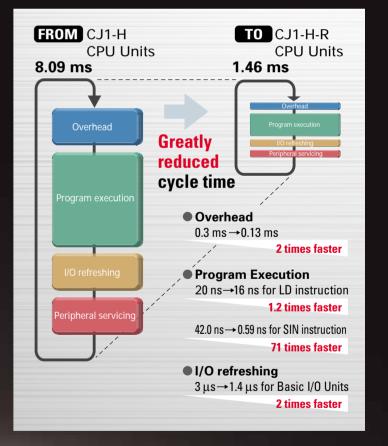
# Faster in Essentially Every Way

	•	
Fast! System Overhead	Overhead processing: Interrupt response:	130 μs 40 μs
Fast! Basic Instructions	LD execution: OUT execution:	16 ns 16 ns
Fast! Floating-point Calculations	SIN execution: Floating-point addition/ subtraction:	0.59 μs 0.24 μs

16-point Basic I/O Unit: 1.4 μs

8-point Analog Input Unit: 50 μs

I/O Refreshing



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