Main specifications

Model No.	NS8160MS	NS8080MS	NS8080SH	NS8040SH
Devices handled	QFP, TSOP, CSP, WLCSP, BGA, QFN, PLCC, LGA, PGA Min. 3 × 3 to Max. 50 × 50 (Lead pitch: 0.4 mm or more) [*1]			
Test mode	16-site (8 × 2)	—	—	—
	8-site (4 × 2)			—
	Square 4-site (2 × 2) In-Line 4-site (4 × 1) 2-site Single			
Testing area	264 mm × 149 mm		184 mm × 149 mm	
Standard socket pitch mm (max)	X: 30 Y: 60 (max X: 30 Y: 63.5)	X: 40 Y: 60 (max X: 60 Y: 63.5)	X: 40 Y: 60	X: 80 Y: 60
Heating method	Heating plate			
Index time	0.38 sec ~ (In-Line 4 up to 160 kgf) [*2]		0.39 sec ~ (In-Line 4 up to 120 kgf) [*2]	
	0.54 sec ~ (In-Line 4 up to 240 kgf) [*2]		—	
Maximum throughput (units per hour)	13,500 units (ambient temperature); 8,200 units (high temperature)		10,000 units (ambient temperature) 6,100 units (high temperature)	
Binning	Max. 6 bins (3 auto loaders, 3 manual loaders)			
Tray size	JEDEC (135.9 × 315.0) mm			
Max. contact pressure	240 kgf		120 kgf	
Temperature accuracy	+50°C to +90°C ±2°C [*4] +90°C to +155°C ±3°C [*4]		+50°C to +90°C ±2°C +90°C to +130°C ±3°C	
Power	Single-phase AC 200 to 240 V, 50/60Hz, 6 kVA			
Handler dimensions (mm)	1,850 (W) × 1,500 (D) × 1,970 (H) [*3]		1,850 (W) × 1,500 (D) × 1,850 (H) [*3]	
Weight	Approx. 1,090 kg		Approx. 1,000 kg	

*1: Depends on socket size and socket pitch.
*2: Depends on the socket mounting height.
*3: Excluding handle, tower light, and LCD monitor.
*4: Contact us for temperature accuracy of NS8080SH 8-site.

Compatibility of Socket Layout Kits
1. Socket Layout Kits (with heater) for NS8080HW can be used.
2. Socket Layout Kits for chamber type Handler can be used for Ambient mode test.

⚠ Safety Precaution | Please read associated manuals carefully before installing or using our robot products   Always use products properly per guidelines in the manuals

• Please note that specifications and appearance of the product may change without notice for better performance.

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IC Test Handler
NS8000 series

Significantly higher performance
and throughput for testing
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Main features

High speed
● These handlers are capable of transferring, testing, and sorting up to 13,500 chips per hour.

Standard contact pressure sufficient for high-speed testing of high-pin-count chips
● The standard contact force of the NS8160MS and NS8080MS is 240kgf. So, for example, if a chip package has 500 pins, the handlers are capable of applying 30gf per pin and transferring, testing, and sorting 16 chips at once.

Support for high temperatures
● These handlers can test chips at temperatures as high as 155°C. The use of a heat press makes recovering from jams during high-temperature use easy.

Support for wide socket pitches
● A layout that accommodates wide socket pitches allows the handlers to also test large numbers of chips such as high-frequency (RF) chips, where interference between chips needs to be considered.