RVSI WS-3800 Wafer Inspection System

Tool Configuration：

Item List		Notes
Manufacturer:	RVSI Inspection	
Model:	WS-3800	
Wafer Size:	200mm/300mm	
Vintage:	2007	
Part # / Name	72000	
Serial No:	WS-3029	
Rated voltage:	1 Phase 120V ± 10%	
Rated Frequency:	50/60Hz	
Rated Current CB1:	30A	
Interrupting Capacity:	10,000A CB1-CB6	
Typical load:	16A	
Maximum Load:	22A	
Rating Of Largest Load:	10A	
Tool Condition:	Used	
Other:	➢ Weight: 1883kg ➢ Width: 1817mm ➢ Depth: 1277mm ➢ Height: 2159mm	

The descriptions of major assemblies & components：

1. Wafer handler system
2. Load-port A and load-port B
3. Computer keyboard
4. Monitors
5. Emergency machine off switch (EMO)
6. Beacon
7. (Optional) Mini-environment
8. Filtering assembly
9. Scanner module (upper)
10. Electronics module
11. Scanner module (lower)
12. System front panel
    UPS power control switch
    Key switch
    E-stop switch

Minimum size for surface defect detection：

Lens magnification	Pixel size	Minimum defect
2.5X	5.2μm	10μm
5X	2.6μm	5μm
10X	1.3μm	2.5μm

System performance specifications：

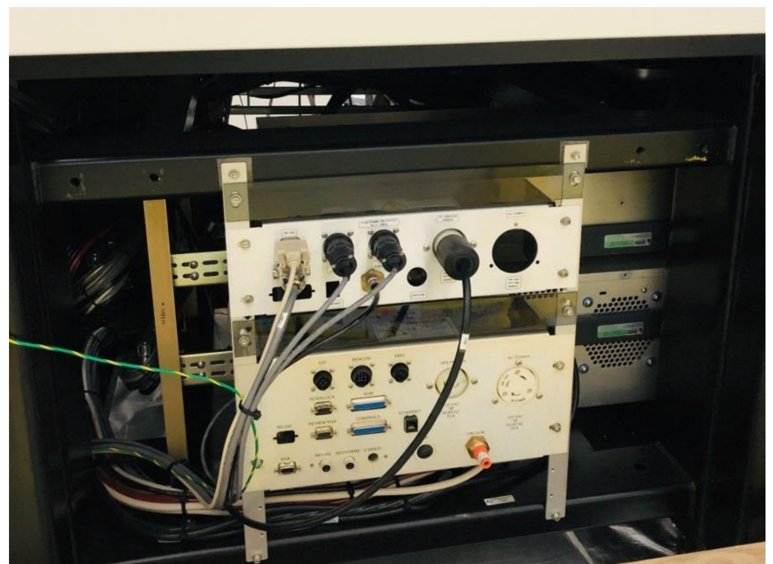
Features	Minimum requirements
Minimum bump diameter for spherical bumps	50μm
Minimum bump length & width for rectangular bumps	50μm
Minimum bump height	10μm
Height resolution (3D option)	0.25μm
Depth of field (3D option)	400μm
Communication interface	SECSII/GEM
Part change-over time	Software-controlled, menu-selectable
Wafer handling	Fully automatic wafer load/unload from standard cassettes
3D structured light, CDRH class 1 “eye-safe”	(3D option)

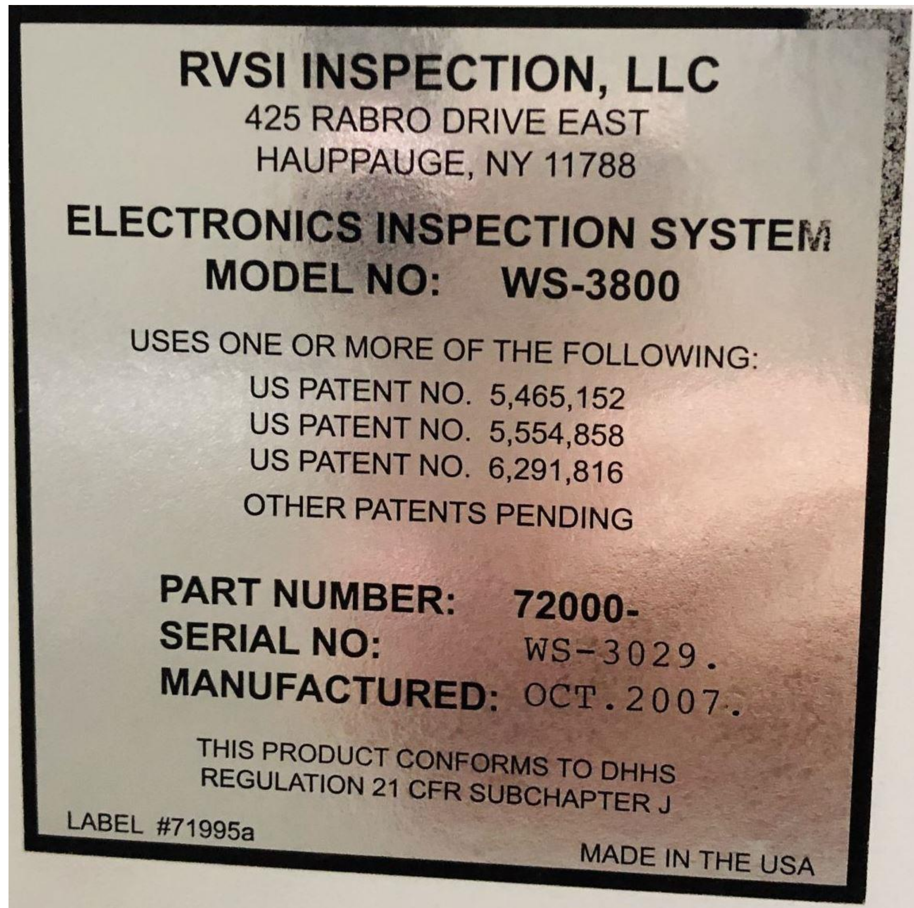
Solder bump measurement accuracy & repeatability：

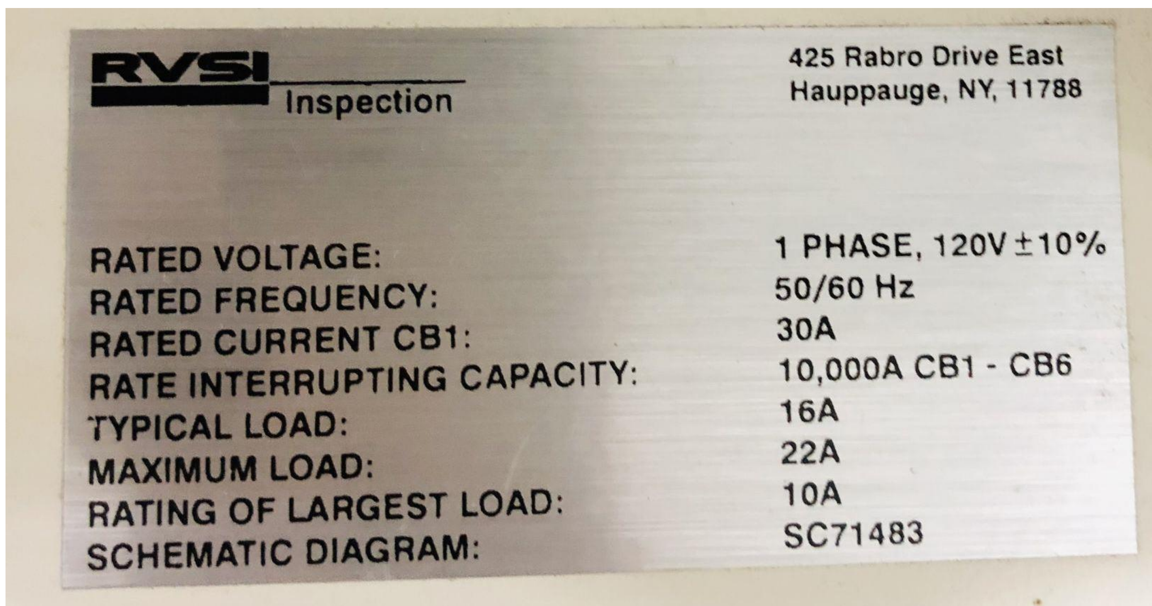
Measurement	Accuracy	Repeatability
Bump height (standard sensor)	±1.0μm	±1.5μm@3σ
Bump coplanarity (standard sensor)	±1.0μm	±1.5μm@3σ
Bump height (enhanced gold bump sensor)	±0.5μm	±0.75μm@3σ
Bump coplanarity (enhanced gold bump sensor)	±0.5μm	±0.75μm@3σ
Bump diameter, length & width	±2.8μm	±2.8μm@3σ
Bump global true position	±2.8μm	±2.8μm@3σ

Photos：

RVSI Inspection
WS-3800
Wafer Inspection System




RVSI INSPECTION, LLC
425 RABRO DRIVE EAST
HAUPPAUGE, NY 11788
ELECTRONICS INSPECTION SYSTEM
MODEL NO: WS-3800
USES ONE OR MORE OF THE FOLLOWING:
US PATENT NO. 5,465,152
US PATENT NO. 5,554,858
US PATENT NO. 6,291,816
OTHER PATENTS PENDING
PART NUMBER: 72000-
SERIAL NO: WS-3029.
MANUFACTURED: OCT.2007.
THIS PRODUCT CONFORMS TO DHHS
REGULATION 21 CFR SUBCHAPTER J
LABEL #71995a
MADE IN THE USA


RVSI Inspection
425 Rabro Drive East
Hauppauge, NY, 11788
RATED VOLTAGE: 1 PHASE, 120V ±10%
RATED FREQUENCY: 50/60 Hz
RATED CURRENT CB1: 30A
RATE INTERRUPTING CAPACITY: 10,000A CB1 - CB6
TYPICAL LOAD: 16A
MAXIMUM LOAD: 22A
RATING OF LARGEST LOAD: 10A
SCHEMATIC DIAGRAM: SC71483

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