

Configuration

No.	Description	Component
1	Main body	1 set including stage, laser, optic system, sensor etc.
2	Handler	1 set including robot, arm, loadport, controller etc.
3	UI	Integrated type including monitor, trackball, keyboard etc.
4	Blower	1 set

Specification

Item	Specification
Wafer size	300mm
Load/Unload	Automatic
Illumination	Oblique/Normal
Channel	Narrow/Wide
Scan mode	Oblique/Wide: 37nm HS/42nm ST/47nm HT
	Oblique/Narrow: 60nm HS/70nm ST/80nm HT
	Normal/Wide: 61nm HS/68nm ST/72nm HT
	Normal/Narrow: 78nm HS/83nm ST/93nm HT
Uniformity	For Calibrated PSL size $<50\text{nm} \pm 1\text{nm}$ For Calibrated PSL size $50\text{nm} \leq \text{size} < 200\text{nm} \pm 2\%$ For Calibrated PSL $200\text{nm} \leq \text{size} \leq 260\text{nm} \pm 5\%$ For Calibrated PSL size $>260\text{nm} \pm 7\%$
Repeatability	Count: $\text{CV}^* \leq 1\%$, for mean count > 5000 *CV = coefficient of variance, σ/μ
Contamination	≤ 0.001 particles ($\geq 0.1 \mu\text{m}$)/cm ² /pass frontside
Dimension	
Main body+UI	720(W)*2100(D)*1850(H)mm
Handler	1250(W)*1685(D)*1850(H)mm
Blower	500(W)*300(D)*300(H)mm

Working Condition

Item	Specification
Temperature	20~24°C
Humidity	26~95% non-condensing
Clean room	Class 10 or better
Electrical Power	200VAC-240VAC, 50/60Hz, Single phase, three wire 30Amps RMS
CDA	85-105 psi(0.586-0.724 MPa)@ 1 SCFM(28.3LPM) 90 psi(0.625 MPa) of CDA @ 0.36 SCFM(10 LPM)
Vacuum	510~762mm Hg; 1 cfm (28.3LPM) 510mm Hg; 0.2 cfm (5.7LPM) (flexible 1/8" ID, 1/4" OD vacuum hose)
Clearance	front:714mm back:600mm left:600mm right:600mm
Venting and Exhaust	System cooling: 100 cfm at 0.5" H ₂ O, 4.5" inches holes Laser cooling: 50 cfm at 1.4" H ₂ O, 4.5" inches holes
Vibration	frequencies <100 Hz, velocity ≤ 0.076 cm/s (0.030 in/s). frequencies >100 Hz, acceleration ≤ 0.050g.