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GCA AutoStep - 1796

Printable Data Page

GCA AutoStep - 1796 System Configuration

Lens	I-Line, Tropel 2145, .45na
AWHIII	Automatic Wafer Handler configured to cycle 25 6” wafers. May be configured for 3” to 8” wafers. 1”, 2”, or single chips may be loaded by hand.
Thetalll	Automatically levels wafers. Chuck maybe tilted with software corrections to optimize field flatness.
RMS10	Ten 5” reticles made be loaded and stored.
Maxi 2000	I line light source idles at 700W and maybe pulsed to 1000W during wafer exposure.
AFS 100	Automatic Focusing system.
MicroDFAS	Local alignment system measures and corrects stage alignment prior to stepping.
SmartSet	Metrology computer system used to process and store data necessary to match single or multiple steppers.
Insitu	Probe mounted to stage and used to measure and correct for lens reduction, rotation, and focus. It also measures and corrects system alignment baselines.
IQ Probe	Probe used to optimize lamp position and light source uniformity. It also accurately measures and corrects Dose.
PPC/RRS	Programmable platen control automatically adjusts reticle load position without the need for hardware adjustments.
IAS	Integrated Alignment System performs automatic digital alignment of global targets.
ACS	Atmospheric Compensation System uses nitrogen to pressurize the reduction lens and accurately measure and correct for environmental changes.

Chamber 8860 environmental chamber protects the stepper while maintaining temperature and cleanliness.

GCA AutoStep Specifications

System Resolution	0.65um Line/Space
Depth of Focus	≥1.25um
Illumination Uniformity	±2.5%
Illumination Intensity	>300mw/cm ²
Open Frame	No Repeaters
Reduction	±0.1um
Rotation	≤0.05um
Telecentricity	≤1.5ppm/um
Stepping Repeatability	≤0.15um
Global Alignment	±0.25um
Local Alignment	±0.15um
RMS Reliability	100 Cycles
Reticle Blade Accuracy	±0.25mm
AWH Reliability	100 Wafers
AWH Accuracy	±0.003"
Leveling Repeatability	±5ppm from nominal

Please Call for Details (Pricing, Installation, Warranty).