

UTS Model 1500 Specifications

System Specifications:

Wafer Sizes:	2", 3", 4", 5", 6", 8"
XY Stage:	Air bearing, laser metered, resolution of .00004 mm
Computer:	HP332, or HP362 Computer with 3.5" floppy and hard disk

Lens Specifications

Lens Type:	Catadioptric
Projection Ratio:	1:1
Lens Elements:	5 Total in two groups
Exposure Spectrum:	Broadband, 390nm-450nm
Depth of Focus:	4.0ums @ 1.2um lines for 1.2 um lens 3.0 ums @ 1.0 um lines for 1.0 um lens 2.0 ums @ 0.8 um lines for 0.8 um lines

Automatic Functions

Auto Prealignment:	Darkfield
Capture Window:	+ - 2 millimeters
Target Capture Window:	+ / - 50 microns, scanning 200 micron target
Autoloader:	Cassette to Cassette, SEMI standard
Manual Loader:	Input and Output slot, single wafer
Reticle Load and Align:	Less than 5 minutes

	1500-1.2u	1500-1.0u	1500-0.8u
Throughput			
4"	95 (16)	95 (16)	85 (20)
5"	75 (24)	75 (24)	60 (30)
6"	55 (35)	55 (35)	45 (43)
8"	30 (61)	30 (61)	25 (77)
Depth of Focus	4.0u @ 1.2u	3.0u @ 1.0u	2.0u @ 0.8u
Lens Distortion			
Absolute: (98% of data)	0.18u	0.16u	0.11u
Maximum error vector (100% data)	0.20u	0.18u	0.13u
Lens to Lens Distortion			
Relative (98% of data)	0.18u	0.16u	0.13u
Resolution			
Production	1.2u	1.0u	0.8u
Field Size			
Max exposure area in mm ²	465	465	365
Max area rectangle in mm	34.2 x 13.6	34.2 x 13.6	31.8 x 11.5
Longest rectangle in mm	39 x 11.4	39 x 11.4	39 x 8.4
Largest square in mm	18 x 18	18 x 18	15.5 x 15.5
Exposure Uniformity	+3.5%	+3.0%	+2.5%
Single Machine Overlay			
Site by site (98%)	+0.18u	+0.15u	+0.12u

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