

## UTS Model 1700 Specifications

### System Specifications:

Wafer Sizes:	2", 3", 4", 5", 6", 8"
XY Stage:	Air bearing, laser metered, resolution of .00004 mm
Throughput:	55 WPH (1.0um lens), 45 WPH (0.8um lens)
Throughput, MVS System:	50 WPH (1.0um lens), 40 WPH
Computer:	HP332, or HP362 Computer with 3.5" floppy and hard disk

### Lens Specifications

Lens Type:	Catadioptric
Lens Elements:	5 Total in two groups
Projection Ratio:	1:1
Exposure Spectrum:	Broadband, 390nm-450nm
Depth of Focus:	4.0ums @ 1.2um lines, 16 um DOF @ 4.0 um lines for 1.2 um lens 3.0 ums @

### 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
Field Change:	7 seconds

		1700-1.2u	1700-1.0u
<b>Throughput</b>			
2, 3"	100mJ	120 (6)	120 (6)
4, 4.5, 5"	100mJ	70 (24)	70 (24)
6"	100mJ	50 (35)	50 (36)
2, 3"	800mJ	102 (6)	102 (6)
4, 4.5, 5"	800mJ	52 (24)	52 (24)
6"	800mJ	36 (36)	36 (36)

### Depth of Focus

+2.0u @1.2u	+1.5u @1.0u
+ - 8.0u @ 4.0u	+7.0u @ 4.0 u

### Lens Distortion

Absolute: (100% of data)	0.18u	0.16u
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### Resolution

Production	1.2u	1.0u
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### Field Size

Max exposure area in mm <sup>2</sup>	465	465
Max area rectangle in mm	34.2 x 13.6	34.2 x 13.6
Longest rectangle in mm	39 x 11.4	39 x 11.4
Largest square in mm	18 x 18	18 x 18

### Exposure Uniformity

+3.0%	+2.5%
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