Mask Aligner							
	Mask Aligner LA810	Mask Aligner LA410	Mask Aligner BA100/BA160				
Exposure method	1 : 1 (original image size) Contact and Proximity method	1:1 (original image size) Contact and Proximity method	1 : 1 (original image size) Contact and Proximity method				
Mask	9 inch max. * selectable	5 inch max. * selectable	5 inch / 7 inch max. * selectable				
Sample	8 inch max. * size adjustable by changing holder	4 inch max. * size adjustable by changing holder	4 inch / 6 inch max. * size adjustable by changing holder				
Lamp house	Super-high pressure mercury lamp 500W Integrator lens method	Super-high pressure mercury lamp 250W Integrator lens method	Super-high pressure mercury lamp 250W Collimator lens method / Integrator lens method				
Effective exposure range	Φ210mm or over	Ф100mm	Φ80mm / Φ160mm				
Dominant wavelength	$\lambda = 365, 405, 436 \text{ nm}$	$\lambda = 365, 405, 436 \text{ nm}$	$\lambda = 365, 405, 436 \text{ nm}$				
UV light intensity	12mW/cm² (at 365 nm)	35mW/cm² (at 365 nm)	6mW/cm² (at 365 nm)				
Exposure uniformity	Within ±5%	Within ±5%	Within ±5%				
Microscope	Dual CCD microscope, monitor observation Sight sphere 1.6 (wipe 0.8) mm x 1.2mm	Dual CCD microscope, monitor observation Sight sphere 1.6 (wipe 0.8) mm x 1.2mm	Dual CCD microscope, monitor observation (two lines up/down) Sight sphere 1.6 (wipe 0.8) mm x 1.2mm				
Alignment	Observe mask and sample simultaneously	Observe mask and sample simultaneously	Observe mask and sample simultaneously Video alignment by freeze-wipe image process				
Alignment stage	XY axis with fine and coarse adjusting knob Oaxis fine and coarse adjusting knob Z axis air operated + with fine adjusting knob Level adjusting by spherical sliding (vacuum fixing) Z axis height measurement, 1 µm resolution (option)	XY axis with fine and coarse adjusting knob Oaxis fine and coarse adjusting knob Z axis manual by screw + with fine adjusting knob Level adjusting by spherical sliding (vacuum fixing) Z axis height measurement, 1 μ m resolution (option)	XY axis with fine and coarse adjusting knob Oaxis fine adjusting knob Z axis air operated + with fine adjusting knob Level adjusting by changing angles with 3 screws Z axis height measurement, 1 µm resolution (option)				
Sample exchange	Mask holder sliding in front and behind + Hinge mechanism	Hinge mechanism	Mask holder sliding in front and behind + Hinge mechanism				
Exterior dimensions & weight	1800(H) x 1200(W) x 900(D) mm approx., 350kg or less	700(H) x 460(W) x 540(D) mm approx., 100kg or less	BA100 870(H) x 700(W) x 600(D) mm approx, 160kg or less BA160 950(H) x 830(W) x 700(D) mm approx, 200kg or less				
Utilities	Power source AC 100V, 15A or less Vacuum 600mmHg or over Dry air Nitrogen 0.5MPa or over	Power source AC 100V, 10A or less Vacuum 600mmHg or over	Power source AC 100V, 15A or less Vacuum 600mmHg or over Dry air or Nitrogen 0.5MPa or over				

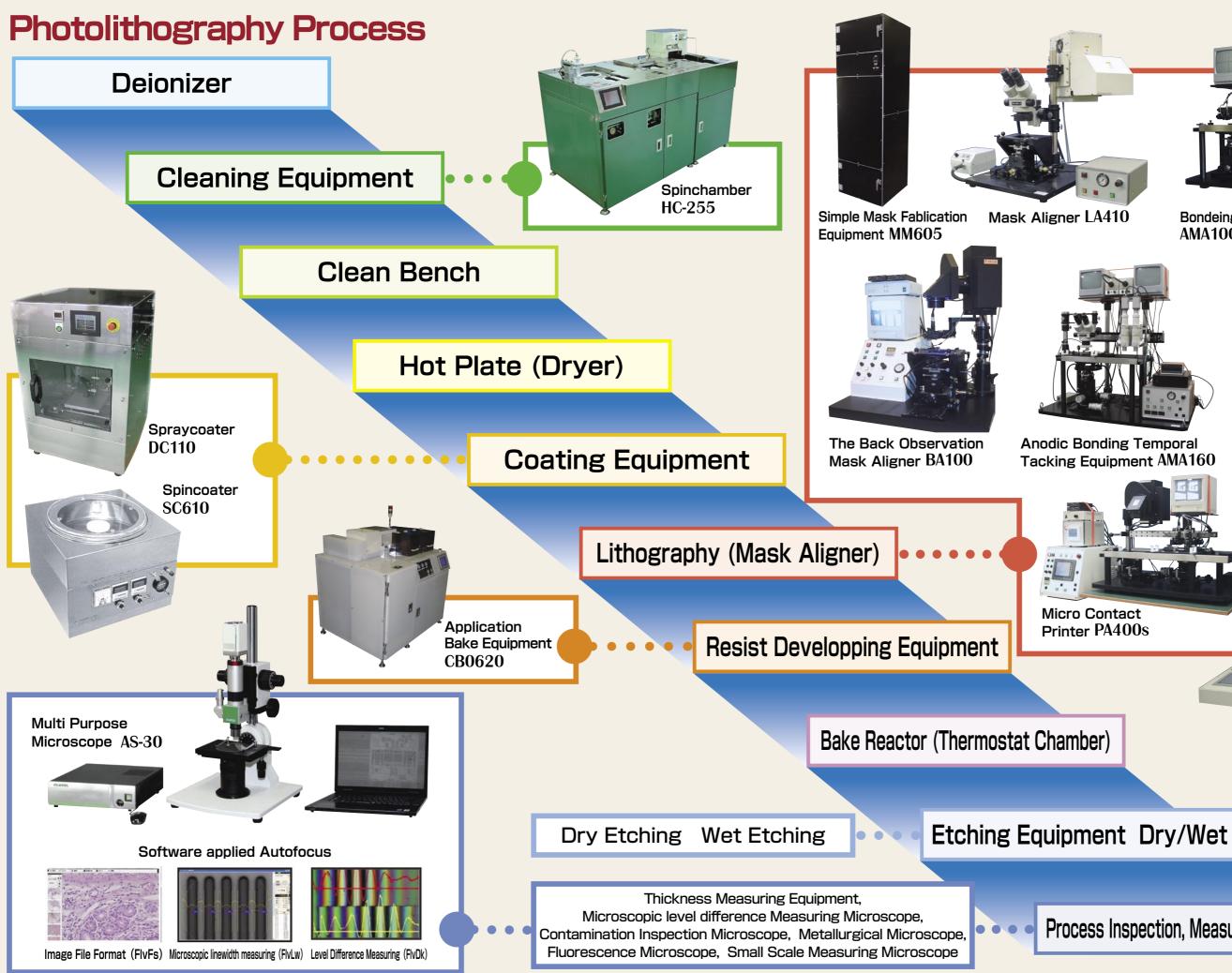
Micro Contact Printer		Simple Mask Fabrication Equipment		Simplified UV Nanoimprint Equipment	
	MP200		MM605		ImpFlex Essential
Printing method	Pressure control contact printing by rise of Z axis on sample stage Max 200N	<lens section=""> Reduction</lens>	0.2 times the rate times	Imprint method	Pressure control imprinting by SOFT stage Max 400N
Stamp	□ 9 inch max. * selectable	Imaging dimensions	59.4 x 59.4 mm	Mold	10, 40, 90mm quartz (Ni option)
Sample	Φ8 inch max. * size adjustable by changing holder	Field size	297 x 297 mm 1195.5 mm	Sample	 * selectable Φ4, 6 inch Silicon wafer * size adjustable by changing holder
Microscope	Dual CCD microscope, monitor observation Objective lens 5x, 10x, 20x (changeover by revolver)	Distance btw images F number	1455.5 mm 5.487 (Image)	Imprint sequence	Step & Repeat
Alignment	Auto/manual observe stamp and surface of sample simultaneously	Resolution	27,317 (Material) 3.017 μm (Image)	XY axis stage	Manual sliding
Alignment stage	UVW axis (XY θ axis) motor drive Level adjusting by spherical-sliding and changing angles with 3 screws	(λ =550mm) Light intensity TV dist	15.024 μm (Material) 95.19% - 0.0263%	UV light source Sample exchange	UV-LED 100mm 14mW/cm ² (at 375~380nm) Sliding stamp holder in front and behind + attaching and removing retractable
Transfer process	XYZ axis resolution 0.1 μ m Z axis motor driven, resolution 0.1 μ m	<lighting section=""> Fluorescent lamp</lighting>	15W x 5	Control	Auto combination of distance and pressure by programming receipe
Sample exchange	Sliding stamp holder in front and behind + attaching and removing retractable	Light adjustment	possible	Alignment microscope	option
Control	Auto combination of distance and pressure by programming recipe	Light intensity Light distribution	max 1215Lx~min. 749Lx 1.004%	Bubble elimination gas supply	option
Exterior	Main body 700(H) x 600(W) x 720(D)	<exposure timer=""></exposure>	99.9 Sec(0.1 Sec)	Exterior dimensions & weight	1300(H) x 1150(W) x 850(D) mm, 200kg or less
dimensions & weight	mm approx., 300kg or less Control device is a separate installation	<power source=""></power>	100V 3A 50/60Hz	Utility	Power source AC 100V, 20A
Utilities	Power source AC 100V, 15A or less Vacuum 600mmHg or over	<dimensions> <weight></weight></dimensions>	610 x 610 x 1975 mm 80kg approx		(gas supply optionally selectable) Clean dry air 0.5MPa 10lit/min. or over and ventillation

Photolithography Equipment





Nanometric Technology Inc.





Bondeing Alignment Equipment AMA100t



UV Nanoimprinter ImpFlex-Essential

Micro Contact Printer MP200

Process Inspection, Measuring Equipment