Edge Bead Removal Guide
Rev. 1 02/03/2017

	• The System uses pressurized EBR 10A • This solvent is pressurized at about 10 PSI • This setup utilizes a Nordson EBR stainless steel needle valve with it's corresponding controller. • The solvent dispensing works along with a Brewer Science flange spinner model 100.
	• The cantilever style arm can be adjusted in both lateral and horizontal dimension. • Only the lateral dimension has a ruler. • Users should always check with Lithography staff before making any adjustments.
	• The cantilever arm can swing away. • This is only used for spinner maintenance.
	• The tip controller is always on and setup. • After a power shutdown specially during the monthly power test the controller will display this message.

	• If you press SEL button once the tool will automatically load tip 1. • This is the setup that talk to the Brewer spinner micro-controller.
	• 18 second is the time the unit will open the valve to release EBR 10A. • For now this will be the permanent setup for this tool.

	• This is the normal display of the spinner's micro-controller.
	• The LCD will display
	  ◦ Run Process
	  ◦ Edit Process
	  ◦ Diagnostics
	• Pressing Edit Process will the display the recipe that I have setup for EBR

	• The EBR recipe consist of two process steps.
	• Step 1
	  ◦ 300 RPM [Speed], 400 RPM/Sec [Acceleration], 20 Sec [Step Time], #2 [Dispense]
	  ◦ Note that Dispense time will be 18 seconds
	• Step 2
	  ◦ 2000 RPM [Speed], 1400 RPM [Acceleration], 15 Sec [Step Time]

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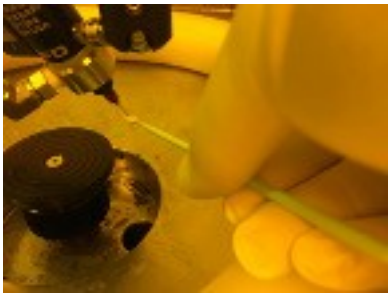
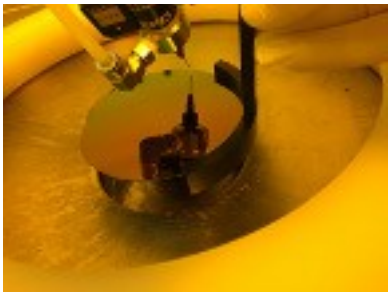
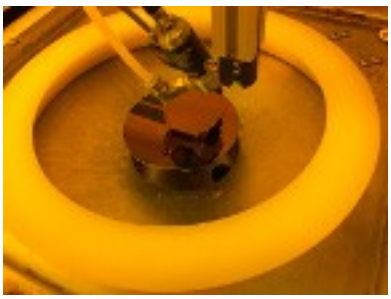
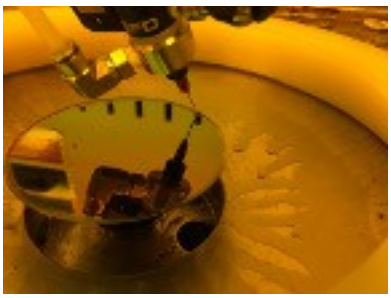
	• To load the EBR recipe go back to the original display or just select “Load” from the previous screen.
	• Select the EBR recipe and click “OK”
	• The controller will give you a warning asking you if you really want to load the recipe.
	• Press “YES”
	• This screen will be displayed. • It will display “Spin Process EBR”

	• Before you load your substrate make sure to clean the excess solvent on the tip using a clean-room swab. • Since the system is constantly under low pressure it will built up a small EBR 10A liquid ball.
	• The lateral dimension has been setup by the CNF staff for 100mm substrates. • Very carefully load your substrate and center it using the black centering tool. • Remove centering tool without touching your substrate.
	• Press “Center” and ensure that your substrate is centered before running the recipe. • The black button on the side can also be used to select center. • If it looks good press the black button again and the controller will run the two steps in the recipe. • Remember that the Nordson controller will active during the first step of the recipe for 18 second. • The second step will dry the substrate.
	• The edge bead removal will start right after centering. • Keep in mind that if you press the selector button too fast the spinner controller will skip the spin part of the recipe, in other words it will skip step 1 and step 2. • If step 1 and step 2 are skipped the EBR 10A will still dispense and ruin your coated substrate. • Please be careful.
	• The EBR recipe can be run multiple times in order to clear thick or old resist.

	• Be very careful when removing your substrate. • Make sure you don’t touch the tip.