6000 Series Operation (Half-cut Specification) (Rev. 1.00)

Trainee		**Period**	
Company		**Trainer**	

<6000 Series Operation (Rev. 1.00)>

Item	Date	Trainee	Trainer
..... Day 1			
1. Machine Components			
1.1. Interpret the Operation Panel Screen Constituents	_____	_____	_____
1.2. Interpret the Software Keyboard	_____	_____	_____
2. Start-up and Termination of the Machine			
2.1. Start up the Machine	_____	_____	_____
2.2. Execute the System Initialization	_____	_____	_____
2.3. Execute the Warming up	_____	_____	_____
2.4. Execute the Setup	_____	_____	_____
2.5. Terminate the Machine	_____	_____	_____
3. Full Automation Operation			
3.1. Interpret the Workpiece Process Flow during Full Automation	_____	_____	_____
3.2. Set the Cassette	_____	_____	_____
3.3. Operate the Device Data Operation Screens	_____	_____	_____
3.4. Interpret the Precautions and the Operation Flow of Full Automation	_____	_____	_____
3.5. Verify the Device Data	_____	_____	_____
3.6. Execute the Single Device Full Automation	_____	_____	_____
3.7. Resume the Cutting Operation after Aborting Full Automation	_____	_____	_____
3.8. Execute the Multiple Device Full Automation	_____	_____	_____
3.9. Interpret the Inspection Function	_____	_____	_____
3.10. Execute the Auto Inspection	_____	_____	_____
3.11. Execute the Designated Inspection	_____	_____	_____
3.12. Remove the Workpiece under Inspection	_____	_____	_____
4. Making Corrections during Full Automation Operation			
4.1. Interpret the Correctable Items during Full Automation	_____	_____	_____
4.2. Adjust the Light Intensity and Microscope Focus	_____	_____	_____
4.3. Correct the Hairline Alignment	_____	_____	_____
4.4. Correct the Cutting Position	_____	_____	_____
4.5. Change the Feed Speed	_____	_____	_____

4.6. Correct the Blade Height			
5. Manual Operation			
5.1. Interpret the Operation Modes and Each Function			
5.2. Interpret the Outline of Manual Workpiece Transfer			
5.3. Execute the Loading			
5.4. Move the Workpiece from Chuck Table to Spinner Table			
5.5. Execute the Cleaning			
5.6. Execute the Unloading			
5.7. Unload All Workpieces			
5.8. Execute the Manual Alignment			
5.9. Execute the Auto Alignment			
5.10. Execute the Auto Cut			
5.11. Execute the Semi-auto Cut			
Day 2			
6. Device Data			
6.1. Copy the Device Data			
6.2. Move the Device Data			
6.3. Rename the Device Data			
6.4. Delete the Device Data			
6.5. Create the Device Data			
6.6. Interpret the Detail of Cutting Function			
6.7. Set the Process Control Table			
6.8. Interpret the Alignment Data			
6.9. Interpret the Cleaning Data			
6.10. Interpret the Water Program Maintenance Function Setting			
6.11. Interpret the Auto-down Function			
6.12. Set the Auto-setup Data			
6.13. Interpret the Purpose and the Data Setting for Precut Function			
6.14. Set the Data of Kerf Check Function			
6.15. Interpret the Usage of Sub Index Data			
6.16. Edit the Device Data for Multiple Index Workpiece			
7. Blade Maintenance			
7.1. Interpret the Operation Flow of Blade Maintenance			
7.2. Replace the Blade			
7.3. Set the Data for a New Blade			
7.4. Set the Data for a Used Blade			
7.5. Adjust the Blade Breakage Detector			
7.6. Interpret the Setup Function			
7.7. Set the Setup Data			
7.8. Execute the Contact Setup			

7.9. Execute the Non-contact Setup	_____	_____	_____
7.10. Execute the Sensor Calibration Setup	_____	_____	_____
7.11. Execute the Dress Cutting	_____	_____	_____
7.12. Correct the Hairline Alignment	_____	_____	_____

Day 3

8. Alignment Teach

8.1. Use the Measure Function	_____	_____	_____
8.2. Execute the Alignment Teach	_____	_____	_____
8.3. Interpret a Summary of the Alignment Target Selection	_____	_____	_____
8.4. Execute the Process Control Table Running (Except for Cutting)	_____	_____	_____

9. Appendix

9.1. (Appendix) Interpret the Errors during Transport	_____	_____	_____
9.2. (Appendix) Interpret the Errors during Cutting	_____	_____	_____
9.3. (Appendix) Interpret the Errors of the Covers	_____	_____	_____
9.4. (Appendix) Interpret the Errors during Setup	_____	_____	_____
9.5. (Appendix) Interpret the Errors during Alignment	_____	_____	_____
9.6. (Appendix) Interpret the Errors during Spinner Cleaning	_____	_____	_____
9.7. (Appendix) Interpret the Errors during Kerf Check	_____	_____	_____
9.8. (Appendix) Interpret the Blade Breakage Detector Errors	_____	_____	_____
9.9. (Appendix) Interpret the Errors Related to Supply Utility	_____	_____	_____
9.10. (Appendix) Interpret the Errors during UV Irradiation	_____	_____	_____
9.11. (Appendix) Interpret Other Errors	_____	_____	_____

<DFD6361 Operation (Half-cut Specification) (Rev. 1.00)>

Item	Date	Trainee	Trainer
1. Full Automation Operation [Half-cut Specification]			
1.1. Set the Cassette [Half-cut Specification]	_____	_____	_____
1.2. Execute the Single Device Full Automation [Half-cut Specification]	_____	_____	_____
1.3. Resume the Cutting Operation after Aborting Full Automation [Half-cut Specification]	_____	_____	_____
1.4. Execute the Multiple Device Full Automation [Half-cut Specification]	_____	_____	_____
2. Making Corrections during Full Automation Operation [Half-cut Specification]			
2.1. Interpret the Correctable Items during Full Automation [Half-cut Specification]	_____	_____	_____
2.2. Adjust the Light Intensity and Microscope Focus [Half-cut Specification]	_____	_____	_____
2.3. Correct the Hairline Alignment [Half-cut Specification]	_____	_____	_____
2.4. Correct the Cutting Position [Half-cut Specification]	_____	_____	_____
2.5. Change the Feed Speed [Half-cut Specification]	_____	_____	_____
2.6. Correct the Cutting Depth [Half-cut Specification]	_____	_____	_____
3. Device Data [Half-cut Specification]			
3.1. Interpret the Difference between Cut Depth and Blade Height [Half-cut Specification]	_____	_____	_____
3.2. Create the Device Data [Half-cut Specification]	_____	_____	_____
3.3. Verify the Non-contact Surface Detector (NSD) Measurement Data [Half-cut Specification]	_____	_____	_____
3.4. Use the Non-contact Surface Detector (NSD) Measure Function [Half-cut Specification]	_____	_____	_____
3.5. Set the Process Control Table [Half-cut Specification]	_____	_____	_____
3.6. Interpret the Cleaning Data [Half-cut Specification]	_____	_____	_____
3.7. Interpret the Usage of Sub Index Data [Half-cut Specification]	_____	_____	_____
4. Blade Maintenance [Half-cut Specification]			
4.1. Execute the Chopper Cut Setup (CCS) [Half-cut Specification]	_____	_____	_____
4.2. Execute the Chopper Cut Hairline Adjustment [Half-cut Specification]	_____	_____	_____
4.3. Interpret the Chopper Cut Setup Count Change Screen [Half-cut Specification]	_____	_____	_____
4.4. Interpret the C/T Si Calibration Chip Replacement Screen [Half-cut Specification]	_____	_____	_____
4.5. Execute the Chopper Cut Setup Kerf Adjustment [Half-cut Specification]	_____	_____	_____
5. Error Recovery [Half-cut Specification]			
5.1. Interpret the Recovery Operations for Chopper Cut Setup Related Errors [Half-cut Specification]	_____	_____	_____
5.2. Interpret the Recovery Operations for Workpiece Thickness Measurement Related Errors [Half-cut Specification]	_____	_____	_____
5.3. Interpret the Recovery Operations for Chuck Table Cleaning Related Errors [Half-cut Specification]	_____	_____	_____
5.4. Interpret the Recovery Operations for Bernoulli Wafer Keeping Related Errors [Half-cut Specification]	_____	_____	_____

5.5. Interpret the Recovery Operations for FOUP Related Errors [Half-cut Specification] _____ _____ _____

Course composition, intended trainees and course objective

Course Name	Intended Trainees	Course Objective
Operation	- who has no experience of operating the machine - who conducts data and function settings of the machine	- To enable trainees to understand the terms necessary for operating the machine and to process products by calling up the data set in the machine - To enable trainees to create the data and set the data and functions for operating the machine
Maintenance 1	- who has already completed the "Operation" course (or has equivalent operation skills) - who conducts periodic maintenance of the machine	To enable trainees to safely and precisely perform the periodic maintenance and consumable parts replacement described in the Maintenance Manual of the machine
Maintenance 2	- who has already completed the "Maintenance 1" course (or has equivalent maintenance skills) - who conducts maintenance works which are not described in the Maintenance Manual of the machine	To enable trainees to conduct maintenance works which are not described in the machine Maintenance Manual (only the items that can be executed without any special tools or access to the internal Maker Data)