

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

Trainee		Period	
Company		Trainer	

<DFD6361 Operation (Rev. 2.00)>

Item	Date	Trainee	Trainer
------	------	---------	---------

..... Day 1

1. Machine Components

- 1.1. Identify the Machine Sectional Composition _____
- 1.2. Interpret the Operation Panel Screen Constituents _____
- 1.3. Interpret the Software Keyboard _____

2. Important Safety Information

- 2.1. Interpret the Precautions on Safe Use of this Machine _____
- 2.2. Interpret the Precautions on Safe Operation of this Machine _____
- 2.3. Interpret the Safety Labels _____
- 2.4. Interpret the EMO Switch _____
- 2.5. Interpret the Interlock Mechanism _____
- 2.6. Interpret the Interlock Mechanism of the Splash Cover/Arm Section Cover _____

3. Start-up and Termination of the Machine

- 3.1. Start up the Machine _____
- 3.2. Execute the System Initialize _____
- 3.3. Execute the Warming up _____
- 3.4. Execute the Setup _____
- 3.5. Terminate the Machine _____

4. Full Automation Operation

- 4.1. Interpret the Workpiece Process Flow during Full Automation _____
- 4.2. Set the Cassette _____
- 4.3. Operate the Device Data Operation Screens _____
- 4.4. Interpret the Precautions and the Operation Flow of Full Automation _____
- 4.5. Verify the Device Data _____
- 4.6. Execute the Single Device Full Automation _____
- 4.7. Resume the Cutting Operation after Aborting Full Automation _____
- 4.8. Execute the Multiple Device Full Automation _____
- 4.9. Interpret the Inspection Function _____
- 4.10. Execute the Auto Inspection _____

- 4.11. Execute the Designated Inspection _____
- 4.12. Remove the Workpiece under Inspection _____

5. Making Corrections during Full Automation Operation

- 5.1. Interpret the Correctable Items during Full Automation _____
- 5.2. Adjust the Light Intensity and Microscope Focus _____
- 5.3. Correct the Hairline Alignment _____
- 5.4. Correct the Cutting Position _____
- 5.5. Change the Feed Speed _____
- 5.6. Correct the Blade Height _____

6. Manual Operation

- 6.1. Interpret the Operation Modes and Each Function _____
- 6.2. Interpret the Outline of Manual Workpiece Transfer _____
- 6.3. Execute the Loading _____
- 6.4. Move the Workpiece from Chuck Table to Spinner Table _____
- 6.5. Execute the Cleaning _____
- 6.6. Execute the Unloading _____
- 6.7. Unload All Workpieces _____
- 6.8. Execute the Manual Alignment _____
- 6.9. Execute the Auto Alignment _____
- 6.10. Execute the Auto Cut _____
- 6.11. Execute the Semi-auto Cut _____

..... Day 2.....

7. Device Data

- 7.1. Copy the Device Data _____
- 7.2. Move the Device Data _____
- 7.3. Rename the Device Data _____
- 7.4. Delete the Device Data _____
- 7.5. Create the Device Data _____
- 7.6. Interpret the Detail of Cutting Function _____
- 7.7. Set the Process Control Table _____
- 7.8. Interpret the Alignment Data _____
- 7.9. Interpret the Cleaning Data _____
- 7.10. Interpret the Water Program Maintenance Function Setting _____
- 7.11. Interpret the Auto-down Function _____
- 7.12. Set the Auto-setup Data _____
- 7.13. Interpret the Purpose and the Data Setting for Precut Function _____
- 7.14. Interpret the Kerf Check Function _____
- 7.15. Set the Data of Kerf Check Function _____
- 7.16. Interpret the Usage of Sub Index Data _____
- 7.17. Edit the Device Data for Multiple Index Workpiece _____

8. Blade Maintenance

- 8.1. Interpret the Operation Flow of Blade Maintenance _____
- 8.2. Replace the Hub Type Blade _____
- 8.3. Replace the Washer Type Blade _____
- 8.4. Set the Data for a New Blade _____
- 8.5. Interpret the Data Setting of Used Blade Function _____
- 8.6. Use the Used Blade Function _____
- 8.7. Adjust the Blade Breakage Detector _____
- 8.8. Interpret the Setup Function _____
- 8.9. Set the Setup Data _____
- 8.10. Execute the Contact Setup _____
- 8.11. Execute the Non-contact Setup _____
- 8.12. Execute the Sensor Calibration Setup _____
- 8.13. Execute the Dress Cutting _____
- 8.14. Correct the Hairline Alignment _____

..... Day 3.....

9. Alignment Teach

- 9.1. Use the Measure Function _____
- 9.2. Execute the Alignment Teach _____
- 9.3. Interpret a Summary of the Alignment Target Selection _____
- 9.4. Execute the Process Control Table Running (Except for Cutting) _____

10. Error Recovery

- 10.1. Interpret the Recovery Operations for Kerf Check Related Errors _____
- 10.2. Interpret the Recovery Operations for Auto Alignment Related Errors _____
- 10.3. Remove the Workpiece from the Chuck Table by Hand _____
- 10.4. Remove the Workpiece from the Spinner Table by Hand _____
- 10.5. Place the Workpiece on the Chuck Table by Hand _____
- 10.6. Interpret the Recovery Operations for Manual Setup Related Errors _____
- 10.7. Interpret the Recovery Operations for Auto Setup Related Errors _____

<DFD6361 Operation (Half-cut Specification) (Rev. 2.00)>

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	Operation 1	- who has no experience of operating 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
	Operation 2	- who has already completed the "Operation 1" course (or has equivalent operation skills) - who conducts data and function settings of the machine	To enable trainees to create the data and set the data and functions for operating the machine
Maintenance	Maintenance 1	- who has already completed the "Operation 2" 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)