

**6000 Series Operation (Measurement Alignment Package) (Rev. 1.00)**

<b>Trainee</b>		<b>Period</b>	
<b>Company</b>		<b>Trainer</b>	

**<6000 Series Operation (Rev. 1.00)>**

Item	Date	Trainee	Trainer
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..... 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

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**5. Manual Operation**

5.1. Interpret the Operation Modes and Each Function

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5.2. Interpret the Outline of Manual Workpiece Transfer

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5.3. Execute the Loading

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5.4. Move the Workpiece from Chuck Table to Spinner Table

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5.5. Execute the Cleaning

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5.6. Execute the Unloading

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5.7. Unload All Workpieces

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5.8. Execute the Manual Alignment

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5.9. Execute the Auto Alignment

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5.10. Execute the Auto Cut

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5.11. Execute the Semi-auto Cut

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

**6. Device Data**

6.1. Copy the Device Data

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6.2. Move the Device Data

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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

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6.9. Interpret the Cleaning Data

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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

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6.16. Edit the Device Data for Multiple Index Workpiece

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**7. Blade Maintenance**

7.1. Interpret the Operation Flow of Blade Maintenance

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7.2. Replace the Blade

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7.3. Set the Data for a New Blade

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7.4. Set the Data for a Used Blade

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7.5. Adjust the Blade Breakage Detector

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7.6. Interpret the Setup Function

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7.7. Set the Setup Data

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7.8. Execute the Contact Setup

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Training Sign-off Sheet

- 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 \_\_\_\_\_

<DFD6000 Operation (Measurement Alignment Package) (Rev. 1.00)>

Item	Date	Trainee	Trainer
<b>1. Full Automation Operation [Measurement Alignment Package]</b>			
1.1. Execute the Single Device Full Automation [Measurement Alignment Package]	_____	_____	_____
<b>2. Making Corrections during Full Automation Operation [Measurement Alignment Package]</b>			
2.1. Interpret the Correctable Items during Full Automation [Measurement Alignment Package]	_____	_____	_____
<b>3. Manual Operation [Measurement Alignment Package]</b>			
3.1. Execute the Manual Alignment [Measurement Alignment Package]	_____	_____	_____
3.2. Execute the Auto Alignment [Measurement Alignment Package]	_____	_____	_____
3.3. Execute the Auto Cut [Measurement Alignment Package]	_____	_____	_____
3.4. Execute the Semi-auto Cut [Measurement Alignment Package]	_____	_____	_____
3.5. Execute Process Control Table Running (Except for Cutting) [Measurement Alignment Package]	_____	_____	_____
<b>4. Device Data [Measurement Alignment Package]</b>			
4.1. Verify the DEVICE DATA screen [Measurement Alignment Package]	_____	_____	_____
4.2. Set the Process Control Table [Measurement Alignment Package]	_____	_____	_____
4.3. Interpret the Measuring Alignment Data [Measurement Alignment Package]	_____	_____	_____
4.4. Interpret the Least Square Method $\theta$ Adjust Data [Measurement Alignment Package]	_____	_____	_____
4.5. Interpret the Multiple Mounting Data [Measurement Alignment Package]	_____	_____	_____
4.6. Interpret the Cutting Line Order Data [Measurement Alignment Package]	_____	_____	_____
4.7. Interpret the Measured Alignment Results [Measurement Alignment Package]	_____	_____	_____
4.8. Example of Device Data Setting [Measurement Alignment Package]	_____	_____	_____
<b>5. Alignment Teach [Measurement Alignment Package]</b>			
5.1. Execute the Alignment Teach [Measurement Alignment Package]	_____	_____	_____
5.2. Use the Measure Function [Measurement Alignment Package]	_____	_____	_____
<b>6. Error Recovery [Measurement Alignment Package]</b>			
6.1. Interpret Error Recovery for Alignment [Measurement Alignment Package]	_____	_____	_____

Training Sign-off Sheet

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**Course composition, intended trainees and course objective**

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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)