

DFD6361 Maintenance 2 (Half-cut Specification) (Rev. 3.00)

Trainee		Period	
Company		Trainer	

<DFD6361 Maintenance 2 (Rev. 5.00)>

Item	Date	Trainee	Trainer
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..... Day 1

1. Machine Structure

- 1.1. Verify the Safety Interlock Circuit and Functions _____
- 1.2. Identify the Electrical Connection _____
- 1.3. Identify the Locations for Electric Components _____
- 1.4. Identify the PC Board Function and Setting _____
- 1.5. Identify the Axes Zero Point Position _____
- 1.6. Identify the Axis Stroke _____
- 1.7. Identify the Servo Motor Driver Error Code _____
- 1.8. Identify the Spindle Motor Driver Error Code _____
- 1.9. Identify the Stepping Motor and Spindle Driver Setting _____
- 1.10. Interpret the Water and Pneumatic Piping _____
- 1.11. Interpret the Chuck Table Setup Principle _____

2. Inspection and Adjustment

- 2.1. Check and Adjust the DC Power Supply Output Voltage _____
- 2.2. Inspect and Adjust the Air/Water Curtain Pipe Height/Angle _____
- 2.3. Adjust the Cutting Room Partition Height _____

..... Day 2

- 2.4. Identify How to Properly Use the Dial Gauge _____
- 2.5. Inspect the X-axis Straightness Accuracy _____
- 2.6. Inspect the X-Spindle Axis Perpendicularity _____
- 2.7. Adjust the X-Spindle Axis Perpendicularity _____
- 2.8. Inspect the Y-axis Straightness Accuracy _____
- 2.9. Inspect the Spindle Shaft Axial Runout _____
- 2.10. Inspect the Chuck Table Leveling Accuracy _____
- 2.11. Adjust the Theta-axis (Chuck Table) Leveling Accuracy _____
- 2.12. Inspect the Z-axis Positioning Repetition Accuracy _____
- 2.13. Inspect the Workpiece Transfer Position _____

Training Sign-off Sheet

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|--|-------|-------|-------|
| 2.14. Adjust the Workpiece Transfer Position | _____ | _____ | _____ |
| 2.15. Adjust the Wheel Cover Nozzle Position | _____ | _____ | _____ |
| 2.16. Perform the Pixel Size Measure Operation | _____ | _____ | _____ |

..... Day 3

3. Machine Parts Replacement

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|---|-------|-------|-------|
| 3.1. Replace the Microscope LED Light | _____ | _____ | _____ |
| 3.2. Replace the PC Board after Setting Jumper and DIP Switches | _____ | _____ | _____ |
| 3.3. Replace the Motor Driver after Setting Jumper and DIP Switches | _____ | _____ | _____ |
| 3.4. Replace the Axis End Sensor | _____ | _____ | _____ |
| 3.5. Replace the NCS Sensor | _____ | _____ | _____ |
| 3.6. Replace the Blade Breakage Detector (BBD) Sensor | _____ | _____ | _____ |
| 3.7. Replace the Microscope Unit | _____ | _____ | _____ |
| 3.8. Replace the Air Spindle Unit | _____ | _____ | _____ |
| 3.9. Replace the Spinner Seal Unit | _____ | _____ | _____ |

4. Appendix

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|---|-------|-------|-------|
| 4.1. (Appendix) DFD6361 Accuracy Certificate | _____ | _____ | _____ |
| 4.2. (Appendix) Water and Air Piping Diagram [Standard Specification] | _____ | _____ | _____ |
| 4.3. (Appendix) Electrical Circuit Diagram [Standard Specification] | _____ | _____ | _____ |

..... Day 4

<DFD6361 Maintenance 2 (Half-cut Specification) (Rev. 1.00)>

Item	Date	Trainee	Trainer
1. Inspection and Adjustment [Half-cut Specification]			
1.1. Adjust the Non-contact Surface Detector (NSD) Air Pressure	_____	_____	_____
2. Machine Parts Replacement [Half-cut Specification]			
2.1. Replace the Waterproof Cover / O-ring / V-ring for θ -axis	_____	_____	_____
2.2. Inspect the Sub-chuck Table Leveling Accuracy	_____	_____	_____
2.3. Replace the Non-contact Surface Detector (NSD) Sensor Unit	_____	_____	_____
3. Appendix [Half-cut Specification]			
3.1. (Appendix) Water and Air Piping Diagram [Half-cut Specification]	_____	_____	_____
3.2. (Appendix) Electrical Circuit Diagram [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)