

# DFD6560 Maintenance 1

(Rev. 1.00)

Trainee (受講者)	
Company (会社名)	

Period (期間)	
Trainer (トレーナー)	

Module (モジュール)	Page (ページ)	Sign-off (サインオフ欄)		
		Date (日付)	Trainee (受講者)	Trainer (トレーナー)
<b>Day 1</b>				
<b>1. Important Safety Information</b>				
1.1.	Interpret the Precautions on Safe Use of this Machine			
1.2.	Interpret the Precautions on Safe Maintenance of this Machine			
1.3.	Interpret the Inherently Hazardous Areas and Ways to Avoid Hazards			
1.4.	Identify the EMO Switch			
1.5.	Identify the Power Circuit Breaker			
1.6.	Carry Out LOTO for Safe Machine Maintenance			
1.7.	Identify the Interlock Mechanism			
1.8.	Identify the Interlock Mechanism of the Arm Section Cover (Left) and Cutting Section Rear Cover			
<b>2. Machine Components and Functions</b>				
2.1.	Interpret the Machine Outer Covers			
2.2.	Interpret the Axis Arrangement and Function			
2.3.	Interpret the Spindle Section			
2.4.	Identify the Chuck Table Section Structure			
2.5.	Interpret the Pressure Monitoring System			
<b>3. Operator Maintenance</b>				
3.1.	Set Up the Function Data			
3.2.	Back Up/Restore the Machine Data			
<b>4. Machine Maintenance</b>				
4.1.	Set Up and Adjust the Air Pressure Sensor			
4.2.	Replace the Chuck Table			
4.3.	Execute the Focus Maintenance			
4.4.	Change the Frame Size			
4.5.	Execute the Rotation Alignment			

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<b>5. Log Viewer</b>				
5.1. Utilize the Log Viewer				
<b>6. Engineering Maintenance</b>				
6.1. Interpret the Purpose of Flange/Hub Mount Conditioning				
6.2. Execute Flange/Hub Mount Conditioning				
6.3. Utilize the I/O Check Screen				
6.4. Utilize the Axial Operation Screen				
6.5. Set Up the User Define Data				
6.6. Set Up the Maintenance Scheduler				
<b>7. Maintenance and Periodic Inspection</b>				
7.1. Clean the Cutting Room				
7.2. Clean the Spindle				
7.3. Clean the Cooling Water Path				
7.4. Clean the Vacuum Ejector				
7.5. Clean the Non-Contact Setup Sensor (Detection Surface) [Optional Accessory]				
7.6. Clean the Blade Breakage Detector Sensor				
7.7. Grease the X-Axis				
7.8. Grease the Y-Axis and Z-Axis				
7.9. Grease the Upper Arm Axis				
7.10. Grease the Elevator Axis				
7.11. Grease the Frame Centering Axis				
<b>Day 2</b>				
<b>8. Consumable Parts Replacement</b>				
8.1. Replace the Air Clean Unit Consumable Parts				
8.2. Replace the Halogen Lamp [Optional Accessory]				
8.3. Replace the Spindle Carbon Brush				
8.4. Replace the Pads of the Upper Arm/Lower Arm Sections				
8.5. Replace the Y-Axis Section Bellows				
8.6. Replace the Spinner Section Roll Cover				
8.7. Replace the X-Axis Bellows				
8.8. Replace the Waterproof Cover/O-Ring/V-Ring for $\theta$ -Axis				

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8.9. <a href="#">Replace the Controller for the Cutting Water Flow Rate</a>				
8.10. <a href="#">Replace the Flowmeter</a>				
8.11. <a href="#">Replace the Cooling Water Flow Rate Sensor</a>				
8.12. <a href="#">Replace the Solenoid Valve</a>				
<b>9. Appendix</b>				
9.1. <a href="#">(Appendix) Check Sheet 1 - Maintenance and Periodic Inspection -</a>				
9.2. <a href="#">(Appendix) Check Sheet 2 - Consumable Parts Replacement -</a>				

### Course composition, intended trainees and course objective

Course Name	Intended Trainees	Course Objective
Operation	<ul style="list-style-type: none"> <li>- who has no experience of operating the machine</li> <li>- who conducts data and function settings of the machine</li> </ul>	<ul style="list-style-type: none"> <li>- 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</li> <li>- To enable trainees to create the data and set the data and functions for operating the machine</li> </ul>
Maintenance 1	<ul style="list-style-type: none"> <li>- who has already completed the "Operation" course (or has equivalent operation skills)</li> <li>- who conducts periodic maintenance of the machine</li> </ul>	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	<ul style="list-style-type: none"> <li>- who has already completed the "Maintenance 1" course (or has equivalent maintenance skills)</li> <li>- who conducts maintenance works which are not described in the Maintenance Manual of the machine</li> </ul>	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)