## DFD6361 Maintenance 1 (Rev. 4.00)

Trainee		Period	
Company		Trainer	

tem		Date	Trainee	Trainer
	Day 1			
	tant Safety Information			
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 the Ways to Avoid the Area-specific 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 Splash Cover/Arm Section Cover			
. Machi	ne Components and Functions			
2.1.	Interpret the Machine Outer Cover			
2.2.	Interpret the Axis Arrangement [Standard Specification]			
2.3.	Interpret the X-axis Section [Standard Specification]			
2.4.	Interpret the Y (Y1 and Y2)-axis Section [Standard Specification]			
2.5.	Interpret the Z (Z1 and Z2)-axis Section [Standard Specification]			
2.6.	Interpret the $\theta$ -axis Section [Standard Specification]			
2.7.	Identify the Chuck Table Structure [Standard Specification]			
2.8.	Interpret the Spinner Section [Standard Specification]			
2.9.	Interpret the Workpiece Transport Section [Standard Specification]			
2.10.	Interpret the Elevator Section [Standard Specification]			
2.11.	Interpret the Inspection Function [Standard Specification]			
2.12.	Interpret the Pre-alignment Section [Standard Specification]			
2.13.	Interpret the Microscope Section [Standard Specification]			
2.14.	Interpret the Spindle Section			
2.15.	Interpret the Pressure Monitoring System			
. Opera	tor Maintenance			
3.1.	Set Up the Function Data			
3.2.	Back Up/Restore the Machine Data			



4. Machii	ne Maintenance		
4.1.	Adjust the Air Pressure Sensor	 	
4.2.	Set the Chuck Table Vacuum Lower Limit	 	
4.3.	Set the Vacuum Pressure Monitoring (Sensor) Threshold [Standard Specification]	 	
4.4.	Replace the Chuck Table [Standard Specification]	 	
4.5.	Change the Frame Size and Configuration [Standard Specification]	 	
4.6.	Execute the Rotation Alignment	 	
4.7.	Execute the Focus Maintenance	 	
5. Log Vi	ewer		
5.1.	Utilize the Log Viewer	 	
6. Engine	eering Maintenance		
6.1.	Identify the Purpose of Wheel Mount/Flange Conditioning	 	
6.2.	Perform the Wheel Mount/Flange Conditioning	 	
6.3.	Utilize the Digital I/O Check Function	 	
6.4.	Utilize the Axial Operation Function	 	
6.5.	Set Up the User Define Data	 	
6.6.	Set the Maintenance Scheduler	 	
	Day 2	 	
	nance and Periodic Inspection		
7.1.	Clean the Cutting Room		
7.2.	Clean the Spindle	 	
7.3.	Clean the Spindle Coolant Water Path	 	
7.4.	Clean the Vacuum Ejector	 	
7.5.	Clean the Non-contact Setup (NCS) Sensor (Detection Surface)	 	
7.6.	Clean the Blade Breakage Detector (BBD) Sensor		
7.7.	Grease the X-axis	 	
7.8.	Grease the Y-axis	 	
7.9.	Grease the Z-axis		
	Grease the Push-pull Axis [Standard Specification]		
7.11.	Grease the Upper Arm Axis [Standard Specification]		
7.12.	Grease the Lower Arm Axis [Standard Specification]	 	
7.13.	Grease the Frame Centering Axis	 	
7.14.	·		
	mable Parts Replacement		
8.1.	Replace the Air Clean Unit Consumables		
8.2.	Replace the Fluorescent Lamp	 	
8.3.	Replace the Halogen Lamp	 	
8.4.	Replace the Spindle Carbon Brush	 	
8.5.	Replace the Y-axis Roll Cover (Sheet)	 	



## Training Sign-off Sheet

8.6.	Replace the Spindle Coolant Water Flow Rate Sensor	 	
8.7.	Replace the Upper Arm Vacuum Pad	 	
8.8.	Replace the Lower Arm Vacuum Pad	 	
8.9.	Replace the Spinner Table O-ring	 	
8.10.	Replace the Solenoid Valve	 	
8.11.	Replace the X-axis Bellows	 	
8.12.	Replace the Waterproof Cover / O-ring / V-ring for $\theta\text{-axis}$ [Standard Specification]		
8.13.	Replace the Cutting Water Flow Meter	 	
9. Appen	dix		
`	Appendix) Maintenance and Periodic Inspection Check Sheet [Standard Specification]		
<ol> <li>9.2. (Appendix) Consumable Parts Replacement Check Sheet [Standard Specification]</li> </ol>			

## 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	<ul> <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	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	<ul> <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)