

DFL7362 Tier 2

(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)	Machine Manual (装置マニュアル)			Sign-off (サインオフ欄)		
		Type (種別)	Chapter (章)	Section (セクション)	Date (日付)	Trainee (受講者)	Trainer (トレーナー)
Day 1							
1. Safety Information							
1.1. Interpret Safety Precautions for Maintenance Personnel		SAF	-	2-2. Inherently Hazardous Areas for Maintenance and Ways to Avoid Hazards			
1.2. Interpret Interlock Mechanism for Maintenance		SAF	-	5. Interlock Mechanism			
		SAF	-	5-1. Positions and Functions of Interlock Devices			
		SAF	-	5-2. User Interlock			
		SAF	-	5-3. Interlock List			
1.3. Interpret Machine Components and Functions		MNT	A	1. Configuration of the Cover			
		MNT	A	1-1. Machine Outer Cover			
		MNT	A	1-2. Transport Section Cover/Processing Section Cover/Lead Shutter Cover			
		MNT	A	1-3. Sub Monitor Cover			
		MNT	A	1-4. Cassette Section Cover			
		MNT	A	1-5. Chiller Section Cover			
		MNT	A	2. Axis Section			
		MNT	A	2-1. Axis Arrangement			
		MNT	A	2-2. X-axis Section			
		MNT	A	2-3. Y-axis Section			
		MNT	A	2-4. Z-axis Section			
		MNT	A	2-5. θ-axis Section			
		MNT	A	2-6. Robot Section			
		MNT	A	2-7. Cassette Section			
		MNT	A	2-8. Pre-alignment Section			
		MNT	A	2-9. Transport Section			
		MNT	A	2-10. Microscope Section			
		MNT	A	2-11. Laser Unit Section			
2. Device Data Related Screen							
2.1. Perform Device Data Operation		DAT	B	1-5. Device Data Operation Screens			
2.2. Edit Device Data		DAT	B	1-6-1. DEVICE DATA Screen [3.1.2]			
2.3. Measure Index Pitch		DAT	B	4-2. Measure Function			
2.4. Set Up Sub Index Data		DAT	B	1-6-2. SUB INDEX DATA Screen [3.1.5]			
2.5. Set Up Street Cut Sequence Data		DAT	B	1-6-3. STREET CUT SEQUENCE DATA Screen [3.1.2.1]			
		DAT	B	2-3-2. Street Cut Sequence			
2.6. Set Up Alignment Data		DAT	B	1-6-4. ALIGNMENT DATA Screen [3.1.3] (1-6-4. to 1-6-8.)			
2.7. Set Up Process Control Table		DAT	B	1-6-9. PROCESS CONTROL TABLE Screen [3.1.6]			
2.8. Set Up Kerf Check Data		DAT	B	1-6-10. KERF CHECK DATA Screen [3.1.8] (1-6-10. to 1-6-12.)			

Module (モジュール)	Page (ページ)	Machine Manual (装置マニュアル)			Sign-off (サインオフ欄)	
		Type (種別)	Chapter (章)	Section (セクション)	Date (日付)	Trainee (受講者)
2.9. Execute Remedies for Kerf Check Errors		DAT	B	1-8-6. ERROR RECOVERY (KERF CHECK) Screen		
2.10. Set Up SD Engine Data		DAT	B	1-6-13. SD ENGINE DATA Screen [3.1.1] (1-6-13. to 1-6-14.)		
2.11. Set Up Laser Just Focus Data		DAT	B	1-6-15. LASER JUST FOCUS DATA Screen [3.1.1.2] (1-6-15. to 1-6-16.)		
2.12. Set Up Transfer Data		DAT	B	1-6-17. TRANSFER DATA Screen [3.1.7]		
2.13. Set Up Target Data		DAT	B	1-6-18. TARGET DATA Screen (1-6-18. to 1-6-19.)		
Day 2						
3. Alignment Teach						
3.1. Execute Alignment Teach		DAT	B	3. Teach		
		DAT	B	3-1. Teach Operation (3-1. to 3-6.)		
3.2. Excute Reticle Focus Adjustment		DAT	B	1-4-11. RETICLE FOCUS ADJ Screen		
4. Operator Maintenance						
4.1. Set Up Parameters on FUNCTION DATA Screen		DAT	B	4-3-1. FUNCTION DATA MAINTENANCE Screen [5.3]		
4.2. Set Up Parameters on OPERATION DATA MAINTENANCE Screen		DAT	B	4-3-2. OPERATION DATA MAINTENANCE Screen [5.3.1]		
4.3. Save and Load Device Data		DAT	B	4-4-2. LOAD DEVICE DATA Screen [5.4.1]		
		DAT	B	4-4-3. SAVE DEVICE DATA Screen [5.4.2]		
4.4. Save and Restore the Machine Data		DAT	B	4-4-7. Machine Data Backup Function		
		DAT	B	4-4-8. Machine Data Restoring Function		
5. Machine Maintenance						
5.1. Replace the Chuck Table		MNT	B	1. Replacing the Chuck Table		
		MNT	B	1-1. Removing the Chuck Table		
		MNT	B	1-2. Mounting the Chuck Table		
5.2. Perform Focus Maintenance		DAT	B	5-5. Focus Maintenance		
5.3. Perform Pre-alignment Maintenance		DAT	B	5-7. Pre-alignment Maintenance		
5.4. Replace the Robot Pick		MNT	B	2. Replacing the Robot Pick		
		MNT	B	2-1. Preparation of Replacing the Robot Pick		
		MNT	B	2-2. Replacing the Robot Pick		
		MNT	B	2-3. Completion of Replacing the Robot Pick		
5.5. Change the Workpiece Size		DAT	B	5-2. Changing the Workpiece Size		
6. Log Viewer						
6.1. Use Log Viewer		OPE	B	6. Log Viewer		
		OPE	B	6-1. LOG VIEWER Screen		
		OPE	B	6-2. Search		
		OPE	B	6-3. Query		
		OPE	B	6-4. Saving Data to External Storage Device		
		DAT	-	APPENDIX 1. EVENT DATA LIST		
7. Laser Maintenance						
7.1. Execute Attenuator Adjustment		DAT	B	1-7-5. ATTENUATOR MAINTENANCE Screen [4.4]		
Day 3						
8. Engineering Maintenance						
8.1. Perform Axis Operation		MNT	C	3. Axis Operation Check		

Module (モジュール)	Page (ページ)	Machine Manual (装置マニュアル)			Sign-off (サインオフ欄)	
		Type (種別)	Chapter (章)	Section (セクション)	Date (日付)	Trainee (受講者)
8.2. Operate Digital I/O Check Function		MNT	C	4-1. I/O Check		
8.3. Set Up Passwords and User Define Data		MNT	C	5-1. Setting on USER DEFINE DATA Screen [7.4]		
8.4. Perform Maintenance Inspection		MNT	C	8. Maintenance Inspection		
9. Non-periodic Maintenance						
9.1. Adjust the Sensor Threshold		MNT	B	3. Sensor Adjustment		
		MNT	B	3-1. Pressure Sensor		
		MNT	B	3-2. Air Pressure Sensor Adjustment		
		MNT	B	3-3. Setting a Monitor Value of Vacuum Pressure		
		DAT	B	5-6. Setting the Analog Sensor Threshold		
10. Periodic Maintenance						
10.1. Clean the Ionizer's Electrode Probes [Optional Accessory]		MNT	E	1-2. Cleaning the Ionizer's Electrode Probes [Optional Accessory]		
10.2. Clean the Pre-filter (Clean Unit) [Optional Accessory]		MNT	E	1-3. Cleaning the Pre-filter (Clean Unit) [Optional Accessory]		
10.3. Clean the Protective Glass for Focusing Lens		MNT	E	1-4. Cleaning the Protective Glass for Focusing Lens		
10.4. Clean the Robot Pick		MNT	E	2-1-2. Cleaning of Robot Pick		
10.5. Inspect the Power Meter Light Receiving Unit		MNT	E	3-2. Checking the Power Meter Light Receiving Unit		
10.6. Replace the Cooling Water (Chiller)		MNT	E	4-1. Replacing the Cooling Water (Chiller)		
10.7. Clean the Vacuum Ejector		MNT	E	5-4. Cleaning the Vacuum Ejector		
11. Consumable Parts Replacement						
11.1. Replace the Air Clean Unit Consumable Part		MNT	F	1-1. Replacing the Air Clean Unit Consumable Parts		
11.2. Replace the Vacuum Ejector		MNT	F	1-2. Replacing the Vacuum Ejector		
11.3. Replace the Air Blower Filter		MNT	F	1-3. Replacing the Air Blower Filter		
11.4. Replace the Pad of the Transfer Arm [Frame Transfer Multiple Use Specification] [Optional Accessory]		MNT	F	1-4. Replacing the Pad of the Transfer Arm [Frame Transfer Multiple Use Specification] [Optional Accessory]		
11.5. Replace the Chuck Table Center Ring		MNT	F	2-1. Replacing the Chuck Table Center Ring		
11.6. Replace the Halogen Lamp		MNT	F	4-1. Replacing the Halogen Lamp		
11.7. Replace the Xenon Lamp [Optional Accessory]		MNT	F	4-2. Replacing the Xenon Lamp [Optional Accessory]		
11.8. Replace the Ionizer's Electrode Probes [Optional Accessory]		MNT	F	4-3. Replacement of the Ionizer's Electrode Probes [Optional Accessory]		
11.9. Replace the Air Filter (Clean Unit) [Optional Accessory]		MNT	F	4-4. Replacing the Air Filter (Clean Unit) [Optional Accessory]		
APPENDIX						
12.1. (APPENDIX) Maintenance Interval - Daily Inspection and Periodic Maintenance -		MNT	-	CHECK SHEET 1 - DAILY INSPECTIONS AND PERIODIC MAINTENANCE -		
12.2. (APPENDIX) Maintenance Interval - Consumable Parts Replacement -		MNT	-	CHECK SHEET 2 - PERIODIC REPLACEMENT -		

Course composition, intended trainees and course objective

Course Name	Intended Trainees	Course Objective
Tier 1	who operates the machine to process products	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
Tier 2	- who has already completed the "Tier 1" course (or has equivalent operation skills) - who conducts data and function settings of the machine - who conducts periodic maintenance of the machine	- To enable trainees to create the data and set the data and functions for operating the - To enable trainees to safely and precisely perform the periodic maintenance and consumable parts replacement described in the Maintenance Manual of the machine
Tier 3	- who has already completed the "Tier 2" course (or has equivalent operation 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)