

C O N T E N T S

	<u>Page</u>
1. Specification	1
1.1 Introduction	1
1.2 Name and Outline of Each Part	2
1.3 Main Dimension Diagram and Layout Diagram	6
1.4 Machine Characteristics	7
1.5 Machine Zero Point Diagram	9
1.6 Numerical Control Unit (Fanuc System CM)	10
1.7 RMC-55 Spindle Output, N-P-T Chart	20
1.8 Tool Shank Outline	22
1.9 Standard Accessories	24
2. Installation	25
2.1 Hoisting & Transporting of the machine	25
2.2 Foundation	26
2.3 Installation	26
2.4 Removal of Rust Preventive Coating	28
2.5 Removal of Machine Locking Fixture	28
2.6 Lubricant Supply	30
2.7 Air Supply	31
2.8 Preparations for Operation	32
2.9 Greasing the Ballscrews	33
3. Operating Components	34
3.1 Machine Proper	34
4. Operations	45
4.1 Manual Operations	45
4.2 Automatic Operations	57
5. Programme	63
5.1 M Function (Miscellaneous Function)	63

	<u>Page</u>
6. Checks At Beginning of Daily Work	65
6.1 Lubricant Tank	66
6.2 Automatic Spindle Temperature	66
6.3 Hydraulic Tank	66
6.4 ATC Unit	66
6.5 Emergency Stop Button	66
6.6 Reference Point Button	66
6.7 Others	68
7. Running-In	
7.1 Running-in of Spindle	67
7.2 Running-in of Axis	68
8. Precautions	68
Options For OM	69
1. Fanuc Cassette Fl	69
2. Fanuc PPR	69
3. Conversational Programming with Graphic Function	71
4. Menu Programming	72
5. Tool Offset No. 64/99	73
6. Jog Override	74
7. Play Back	73
8. Software Operator's Panel	73
9. Run Time & Parts Count Display	73
10. Pattern Data Input	76
11. Custom Macro	77
12. Tool Length Measurement	78
13. External Data Input	79
13.1 External Tool Compensation	79
14. External Message Function	80
15. External Key-Input Function	80
16. Chinese Display	81
17. Helical Interpolating	81
18. Changing of Tool Offset Amount	81
19. Program Restart	81

	<u>Page</u>
9. Operation of the ATC Unit	82
1. Unit Identification	82
1.1 Automatic Tool Changes Unit	83
1.3 Automatic Tool Changes (ATC) Panels	84
2. Operation of ATC Unit External Control Panel	86
2.1 Magazine Reference Return Button	86
2.2 Magazine Indexing Button	86
2.3 Emergency Stop Button	86
3. Operation of ATC Unit Internal Control Maintenance Panel	87
3.1 Arm Motion	87
3.2 Operation of ATC Arm	87
4. Operation of ATC System	90
4.1 Stand-by of Automatic Tool Change	90
4.2 Magazine Reference Return	91
4.3 Registering Tool Number	91
4.4 Calling a Tool	92
4.5 Automatic TOOL Changing by Auto Mode	93
4.6 Automatic Tool Changing by MDI MODE	94
5. Restoration from an Emergency Stop during ATC motion...	94
6. Maintenance	96