

INSTRUCTION MANUAL

Precision External Cylindrical Grinding Machine

Model OGM-250UDX
(Auto Infeed Type)

Ver. 1.2 11-1999



OKAMOTO MACHINE TOOL WORKS, LTD.

YOKOHAMA JAPAN

1	Contents	1-1
2	Foreword	2-1
3	General Description	3-1
4	Specification	
4-1	Specification (Machine)	4-1
4-2	Floor Layout	4-2
4-3	Standard Accessories	4-3
4-4	Optional Accessories	4-4
4-5	Special Modification	4-5
5	Definition of Machine Components	5-1
6	Transportation, Installation	
6-1	Transporting the machine	6-1
6-2	Installing the machine	6-2
6-3	Releasing Clamps	6-3
6-4	Leveling the machine	6-4
6-5	Electrical Connection	6-5
6-6	Others	6-6
7	Lubricant	
7-1	Recommendation Oils	7-1
8	Details for Machine Component	
8-1	Construction and Operation	8-1
1.	Table	8-2
2.	Work head	8-3
3.	Tailstock	8-12
4.	Wheel head	8-14
8-2	FX Controller	8-19
8-3	IOC (I/O Check - Diagnostic Screen: DGN)	8-22
8-4	Alarm List	8-29
8-4-1	Changing Parameter	8-32
8-4-2	Changing CPU Board	8-33
9	Machine Operation	
9-1	Operation Panel and Function	9-1
9-2	Automatic Cycle	9-6
9-3	Internal Grinding Unit	9-14

10 Attached Drawings	10-1
10-1 Diamond Tool	10-1
10-2 Balance Arbor	10-2
10-3 Wheel Flange	10-3
10-4 Washer	10-4
10-5 Balance Piece	10-5
10-6 Hydraulic Tank	10-6
10-7 Hydraulic Diagram	10-7
11 Electrical Diagram	11-1
11-1 Symbols for Electrical Diagram	11-1
12 How to set the Grinding Wheel	12-1
12-1 Notes on Grinding Wheel	12-1
12-2 How to adjust the Balance	12-4
12-3 Dressing and Truing	12-7