

M-105H

BRIDGEPORT SERIES I
MILLING MACHINE

APRIL 1981

INSTALLATION, OPERATION
AND
MAINTENANCE

This manual carries additional safety precautions and warnings. Read and observe the entire procedures contained in this manual.

Bridgeport® **TEXTRON**
Bridgeport Machines Division of Textron Inc.

TABLE OF CONTENTS

	<u>Page</u>
Machine Specifications	2
Milling Head Specifications	3
Uncrating	4
Shortages	4
Cleaning	4
Lifting Machine	5
Placing on Solid Foundation	6
Leveling Machine	6
Handles	6
Connecting Power Supply	6
Alignment of Head	8
Lubrication	8
Adjustment of Table Gib	10
Adjustment of Saddle and Knee Gibs	10
Clamping Table, Saddle and Knee	11
Removing Table	12
Removing Saddle	12
Mounting Vari-Drive Attachment to Ram Adapter	14
Lubrication	14
Operating Instructions	14
Spindle Brake	16
High-Low Range Switch	16
Hi-Neutral-Lo Lever	16
Power Feed Transmission Engagement Crank	17
Quill Feed Selector	17
Feed Reversing Knob	17
Manual Feed	17
Feed Control Lever	18
Quill Feed Handle	18
Quill Stop	18
Micrometer Adjusting Nut	18
Position of Ram	19
Operating Instructions	19
Removing Motor	20
Changing Vari-Drive Belt	22
Changing Timing Belt	23
General Speed Recommendations	24
Parts Identification	25
Basic Machine	26
Leadscrew Assembly	28
J Head Top Housing	30
J Head	32
2J Head Top Housing	36
2J Head Back Gear	38

TABLE OF CONTENTS (continued)

	<u>Page</u>
M Head	40
Shaping Attachment	42
6F Longitudinal Power Feed Assembly	44
Metric Conversion Kits	48

LIST OF ILLUSTRATIONS

<u>Figure</u>		<u>Page</u>
1	Principal Dimensions	1
2	Installation Layout	7
3	Head Alignment Y Axis	8
4	Head Alignment X Axis	8
5	Recommended Lubrication	9
6	Saddle/Table Gib	10
7	Saddle-Knee Gib	10
8	Knee-Column Gib	10
9	Longitudinal and Cross Feed Assembly	13
10	2J Milling Attachment	15
11	Motor Removal	21
12	Removing Vari-Drive Belt	22
13	Removing Timing Belt	23
14	Circuit Diagram - Motors	46
15	Circuit Diagram - Power Feed	47