

**MANUFACTURE OF A COMPONENT  
ON A CNC LATHE**

by

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## A B S T R A C T

The text main objective is to manufacture the brass Compression fitting. However it was deemed appropriate that first a brief study of the developments of CNC and the a more detailed study of the EMCO Compact 5 CNC Lathe was done. Great emphasis was placed on the systems characteristics such as operational features and its software in order to have an understanding and be familiar with its operation and programming. The manufacturing of the compression fitting necessitated detailed drawings of the component, with the planning and decision process being done taking into account the limitations of the training unit, thus a two part program and machining operation was required and the preparation of a fixture was necessary.

# C O N T E N T S

	Page
Acknowledgements	
Abstract	
Contents	
Introduction	1
<b>CHAPTER 1 - THE HISTORY &amp; DEVELOPMENT OF NC UP TO CNC</b>	
1.1 The History and Development of NC up to CNC .....	4
1.2 Influence of NC .....	5
1.3 Benefits of NC .....	5
1.4 Computer Numerical Control (CNC) .....	6
1.5 Attributes and advantages of CNC .....	7
1.6 Attributes of CNC .....	7
1.7 Profitable applications of CNC .....	8
1.8 Adopting CNC .....	9
1.9 Drawbacks of CNC .....	10
<b>CHAPTER 2 - EMCO COMPACT 5 CNC</b>	
2.1 EMCO Compact 5 CNC .....	13
2.2 Main Elements of the EMCO COMPACT 5 CNC .....	14
2.3 Main Spindle .....	15
2.4 Perforated Disc and light Barrier .....	16
2.5 Perforated Disc and impulse generator .....	17
2.6 Drive of slides .....	20
2.7 Longitudinal and Gross slides .....	21
2.8 Accuracy of measuring system .....	22
2.9 The Tail Stock .....	23
2.1.1 Automatic Turret Tool Holder and Tooling .....	24
2.1.2 Mounting of outside tool bits .....	26
2.1.3 Mounting of inside tool bits .....	26
2.1.4 Operation and Control Elements	
CNC - operation .....	27

**CHAPTER 3 - THE COORDINATE, MEASURING &  
PROGRAMMING SYSTEMS**

3.1	Coordinate System .....	32
3.2	Measuring System .....	33
3.3	Subroutines .....	35

**CHAPTER 4 - MACHINING CHARACTERISTICS  
& CAPABILITIES**

4.1	General Characteristics .....	37
4.2	Linear Interprulation .....	37
4.3	Machining Operations Achieved: Mode G01 .....	37
4.4	Circular Interprulation .....	38
4.5	Canned cycles .....	38

**CHAPTER 5 - OPERATING ELEMENTS OF CNC OPERATION**

5.1	Operating elements of CNC operation .....	41
5.2	The figure keys .....	42

**CHAPTER 6 - ALARM SIGNS**

6.1	Alarm Signs .....	48
6.2	What Happens when Wrong Data is Put in .....	48
6.3	Alarm Codes as Measures .....	49

**CHAPTER 7 - MAGNETIC TAPE OPERATION**

7.1	SAVE and LOADING .....	56
7.2	Erasing Tape .....	56
7.3	Putting in the tape .....	58
7.4	Program Interprulation During Tape Operation .....	58

**CHAPTER 8 - TOOLS**

8.1	Tools .....	60
8.2	Collecting of Tool Data with Optical Presetting Device .....	61
8.	Image Inversion .....	64

**CHAPTER 9 - PROGRAMS AND PROGRAMMING**

9.1	Definitions of a Program .....	65
9.2	Definitions of Programming .....	65
9.3	Function of the Programmer .....	65
9.4	Program Input .....	67
9.5	What Happens When Data is put in .....	67

**CHAPTER 10 - HOW TO INPUT A PROGRAM**

10.1	Input of a Program .....	70
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**CHAPTER 11 - MANUFACTURE OF BRASS****COMPRESSION FITTING**

11.1	Manufacture of Bras Compression Fitting.....	72
11.2	Component Specifications .....	72
11.3	Manufacturing Process .....	74
11.4	CNC Part Program .....	76
	Conclusion .....	78