

CNC PROGRAMMING

USING FANUC CUSTOM MACRO B

```
#101 = #101 + 1;
```

```
END 1;
```

```
G80;
```

```
M99;
```

If some conditions are specified, the program jumps to the line number following the specified line number.

```
IF [#20 EQ #1] THEN GOTO #100;
```

```
IF [#20 EQ #2] THEN GOTO #101;
```

```
IF [#20 EQ #3] THEN GOTO #102;
```

```
IF [#20 EQ #4] THEN GOTO #103;
```

```
IF [#19 EQ #0] THEN GOTO #104;
```

```
IF [#18 EQ #0] THEN GOTO #105;
```

```
IF [#9 EQ #0] THEN GOTO #106;
```

For making flange number 1, this macro may be called by a program such as the one given below.

```
G21 G94;
```

```
G91 G28 Z0;
```

```
G28 X0 Y0;
```

```
M06 T01;
```

```
G90;
```

```
G00 X0 Y0;
```

```
G43 H01 Z50;
```

```
M03 S1000;
```

```
M08;
```

```
O8021 (BOLT HOLES ON A FLANGE);
```

```
G81 Z[ABS[#26]] R#18 F#9 K0;
```

```
#100 = [360 / #11];
```

```
G81 Z[ABS[#26]] R#18 F#9 K0;
```

```
#100 = [360 / #11];
```

```
G81 Z[ABS[#26]] R#18 F#9 K0;
```

```
#100 = [360 / #11];
```

```
G81 Z[ABS[#26]] R#18 F#9 K0;
```

```
#100 = [360 / #11];
```

S.K. SINHA

Cnc Macro Programming Manual

Peter Smid



Cnc Macro Programming Manual:

CNC Control Setup for Milling and Turning Peter Smid, 2010 This unique reference features nearly all of the activities a typical CNC operator performs on a daily basis Starting with overall descriptions and in depth explanations of various features it goes much further and is sure to be a valuable resource for anyone involved in CNC *The Journeyman's Guide to Cnc Machines* Bryan Hurst, 2006-06-01 The Guide provides instruction in ISO code programming for Turning included are examples that will give an understanding of the principles to apply to any machine and control also featured are GE Fanuc and Siemens Controls The Guide lists functions and codes under the reference JG and provides space to include data for specific machines and controls Extensive examples show how to programme the options and features Component drawings have metric and imperial dimensions simply substitute the dimensions with those of the system of your choice The Guide is your starting point use the instructions and suggestions to build your own unique evolvable folder from here creating an invaluable personal handbook CNC Programming using Fanuc Custom Macro B S. K Sinha, 2010-06-22 Master CNC macro programming CNC Programming Using Fanuc Custom Macro B shows you how to implement powerful advanced CNC macro programming techniques that result in unparalleled accuracy flexible automation and enhanced productivity Step by step instructions begin with basic principles and gradually proceed in complexity Specific descriptions and programming examples follow Fanuc s Custom Macro B language with reference to Fanuc 0i series controls By the end of the book you will be able to develop highly efficient programs that exploit the full potential of CNC machines COVERAGE INCLUDES Variables and expressions Types of variables local global macro and system variables Macro functions including trigonometric rounding logical and conversion functions Branches and loops Subprograms Macro call Complex motion generation Parametric programming Custom canned cycles Probing Communication with external devices Programmable data entry

Parametric Programming for Computer Numerical Control Machine Tools and Touch Probes Mike Lynch, 1997 Until now parametric programming has been the best kept secret of CNC This new book demystifies this simple yet sophisticated programming tool in an easy to understand tutorial format and presents a comprehensive how to of parametric programming from a user s point of view Focusing on three of the most popular versions of parametric programming Fanuc s custom macro B Okuma s user task 2 and Fadal s macro the book describes what parametric programming is what it can do and how it does it more efficiently than manual programming Along with a host of program simplifying techniques included in the book you re treated to descriptions of how to write set up and run general subprograms simulate the addition of control options and integrate higher level programming capabilities at G code level **Manufacturing Engineering Handbook, Second Edition** Hwaiyu Geng, 2015-10-22 The new edition of this professional resource reveals how to optimize all aspects of the global manufacturing process to build the highest quality goods at the lowest price in the shortest possible time How can one apply technical and business knowledge to develop a strategic plan that delivers increased productivity

quality sustainability reliability agility resilience and best practices with rapid time to production and value The answers are found in the fully updated new edition of Manufacturing Engineering Handbook The goal of this second edition is to provide the essential knowledge needed to build products with the highest quality at the lowest cost in the least amount of time by optimizing all aspects of the manufacturing process design development tools processes quality speed output safety and sustainability You will gain access to information on conventional and modern technologies manufacturing processes and operations management that will assist you in achieving these goals The book is written by a team of more than 100 internationally renowned manufacturing engineering experts and pared down from its original 1200 pages The new and vastly improved second edition is specifically designed to concisely and succinctly cover traditional manufacturing processes and advanced technologies as well as newer manufacturing software and systems to integrate them into the modern global manufacturing world Brand new chapters on eco design and sustainability nano materials and nano manufacturing facilities planning operations research New sections on plastics composites and moldmaking global manufacturing and supply chain management Increased coverage of Design for Six Sigma and adaptive manufacturing Affiliated web site with color illustrations graphs charts discussions on future trends additional technical papers and suggestions for further reading

Machinery's Handbook Erik Oberg, Christopher J. McCauley, 2012 Machinery's Handbook has been the most popular reference work in metalworking design engineering and manufacturing facilities and in technical schools and colleges throughout the world for nearly 100 years It is universally acknowledged as an extraordinarily authoritative comprehensive and practical tool providing its users with the most fundamental and essential aspects of sophisticated manufacturing practice The 29th edition of the Bible of the Metalworking Industries contains major revisions of existing content as well as new material on a variety of topics It is the essential reference for Mechanical Manufacturing and Industrial Engineers Designers Draftsmen Toolmakers Machinists Engineering and Technology Students and the serious Home Hobbyist New to this edition micromachining expanded material on calculation of hole coordinates an introduction to metrology further contributions to the sheet metal and presses section shaft alignment taps and tapping helical coil screw thread inserts solid geometry distinguishing between bolts and screws statistics calculating thread dimensions keys and keyways miniature screws metric screw threads and fluid mechanics Numerous major sections have been extensively reworked and renovated throughout including Mathematics Mechanics and Strength of Materials Properties of Materials Dimensioning Gaging and Measuring Machining Operations Manufacturing Process Fasteners Threads and Threading and Machine Elements The metric content has been greatly expanded Throughout the book wherever practical metric units are shown adjacent to the U S customary units in the text Many formulas are now presented with equivalent metric expressions and additional metric examples have been added The detailed tables of contents located at the beginning of each section have been expanded and fine tuned to make finding topics easier and faster The entire text of this edition including all the tables and equations has

been reset and a great many of the figures have been redrawn The page count has increased by nearly 100 pages to 2 800 pages Updated Standards

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Computer Numerical Control of Machine Tools G E THYER,2014-06-28 This is a comprehensive textbook catering for BTEC students at NIII and Higher National levels advanced City and Guilds courses and the early years of degree courses It is also ideal for use in industrial retraining and post experience programmes

Computer Numerical Control Programming Peter J. Amic,1997 Designed to help company managers build faster and more productive CNC departments this state of the art guide outlines the main problems when dealing with computer numerical control equipment and examines organizational concepts and strategies that can be used to achieve maximum efficiency in the CNC department Written by an educator with extensive hands on CNC programming and manufacturing engineering experience it offers the most advanced programming techniques available in any book of its kind Organizes material in a very logical progression with each chapter building on the previous one for easy comprehension Provides a well rounded treatment of CNC programming by offering a sound balance between basic and more advanced topics with thorough coverage of programming fundamentals machine set up manual tool radius compensation automatic tool radius compensation advanced programming concept of macro programming using computers in CNC programming and efficiency in the CNC department Many practical programming examples help users learn important mathematical concepts and build competitive skills necessary for programming and operating today s CNC equipment For plant managers production managers and machine shop managers

Tool & Die Maker (Press Tools, Jigs & Fixtures) (Theory) - II Mr. Rohit Manglik,2024-05-18 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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Introduction to NC/CNC Operation William W. Luggen,1986

CNC Programming Using Fanuc Custom Macro B S. K. Sinha,S. N. Sinha, **Advanced Manufacturing Technology, ICAMMP 2010** Jingtao Han,Zheng Yi Jiang,Si Hai Jiao,2010-10-27 Selected peer reviewed papers from the 2010 International Conference on Advances in Materials and Manufacturing Processes ICAMMP 2010 6 8 November 2010 Shenzhen China

NC Machine Programming and Software Design Chao-Hwa Chang,Michel A. Melkanoff,1989 Very

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,1993 **Applied Process Control Instrumentation** Jean Potvin,1985 **School Shop/tech Directions** ,1991
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