

# Fanuc CNC Macro Programming (Custom Macro B) Codes

Fanuc's Custom Macro B is a powerful programming feature that allows for parametric programming, variables, logic operations, and complex calculations in CNC programs. Here are the key elements:

## Variables

- **#1-#33** - Local variables (volatile)
- **#100-#199** - Common variables (retain values after power off)
- **#500-#999** - Persistent common variables (retain values after power off)
- **#1000+** - System variables (read-only)

## Arithmetic Operations

```
text
#i = <expression> (Assignment)
+ (Addition)
- (Subtraction)
* (Multiplication)
/ (Division)
MOD (Module)
SIN (Sine)
COS (Cosine)
TAN (Tangent)
ATAN (Arctangent)
SQRT (Square root)
ABS (Absolute value)
ROUND (Rounding)
FIX (Truncate)
FUP (Round up)
```

## Control Statements

### Conditional Branches

```
text
IF [<conditional expression>] GOTO n
IF [<conditional expression>] THEN <assignment>
```

# Fanuc 0t Macro B Guide

**Joacim Rocklöv**



## **Fanuc 0t Macro B Guide:**

*Fanuc CNC Custom Macros* Peter Smid,2004-01-11 CNC programmers and service technicians will find this book a very useful training and reference tool to use in a production environment Also it will provide the basis for exploring in great depth the extremely wide and rich field of programming tools that macros truly are **BOOK JACKET** *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 Techniques** Peter Smid,2006 This practical and very useful resource covers several programming subjects including how to program cams and tapered end mills that are virtually impossible to find anywhere Other more common subjects such as cutter radius offset and thread milling are covered in great depth **CNC Programming Using Fanuc Custom Macro B** S.K Sinha,2010-06-22 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product 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 *CNC Programming Handbook* Peter Smid,2003 Comes with a CD ROM packed with a variety of problem solving projects [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

**Machinery Buyers' Guide** ,1995      *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 New School Shop, Tech Directions* ,1989      **Automotive Manufacturing & Production** ,2000-07      **School Shop/tech Directions** ,1990      American Book Publishing Record ,2003      *Official Gazette of the United States Patent and Trademark Office* United States. Patent and Trademark Office,1984      **Thomas Register of American Manufacturers** ,2002 This basic source for identification of U S manufacturers is arranged by product in a large multi volume set Includes Products services Company profiles and Catalog file

**Fanuc CNC Custom Macros** Peter Smid,2005 Numerous examples and sample programs are used throughout this book Their purpose is to serve not only as practical applications of the techniques presented but for many of them as the basis of ready to run macro programs To help make your use of these programs as easy and as reliable as possible all the sample programs have been reproduced on the enclosed CD CNC programmers and service technicians will find this book a very useful training and reference tool to use in a production environment Also it will provide the basis for exploring in great depth the extremely wide and rich field of programming tools that macros truly are Jacket

**Catalogo dei libri in commercio** ,1996      **Custom Macro Programming** Fanuc FANUC America,2018-01-16 book      *WordPerfect 6.0 Advanced Macro Programming* J. J. Westergren,1993

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