

O1000

G90 G80 G64 G40

G17

T17

M6 (Milling tool  $\varnothing 32$  R3.1)

S15000 M3

G0 G90 G54.2 P1 A0 C0 X-100. Y0

M7

G43 G0 Z3. H17 M8

D17 (Tool Radius)

G1 Z0 F200.

#1=18. (Radius)

#2=5. (Depth)

M98 P500 (Call Program 500)

G90 G0 Z3.

X0 Y0

G1 Z0

#1=20. (Radius)

#2=10. (Depth)

M98 P500 (Call Program 500)

G90 G0 Z3.

X100. Y0

G1 Z0

#1=25. (Radius)

#2=5. (Depth)

M98 P500 (Call Program 500)

G90

G0 G53 Z0

M30

# Fanuc Macro Programming Examples

**S Ashworth**



## **Fanuc Macro Programming Examples:**

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 **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** CNC Programming Using Fanuc Custom Macro B S. K. Sinha,S. N. Sinha, Fanuc CNC Custom Macros Peter Smid,2005-09-25 Offers many practical do s and don t s while covering all the popular Fanuc control systems exclusively Provides the basis for exploring in great depth the extremely wide and rich field of programming tools that macros are Numerous examples and sample programs are used throughout that serve as practical applications of the techniques presented and as the basis of ready to run macro programs Includes a CD containing all of the sample programs An invaluable companion to the author s best selling CNC Programming Handbook this book is a general introduction to the subject of macros known as Custom Macros or User Macros Its purpose is to make you aware of what macros are how to develop them and how to use them effectively It also explores important related subjects and identifies several other helpful topics in this increasingly important and exciting field of CNC programming **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** Current Trends in Computer Science and Mechanical Automation Vol.2 Shawn X. Wang,2018-03-30 Frontmatter Contents Preface Introduction of keynote speakers Part IV Sensors Instrument and

Measurement II Design of Remote Real Time Measuring System of Temperature and Humidity based on Raspberry Pi and Java Language Design of Emotional Physiological Signal Acquisition System EMC Effects On High Resolution Spaceborne SAR Image Real time Pupil Detection based on Contour Tracking Chip Manufacturing Data Integration and Transmission A DCT domain based Research and Application of the Algorithm of Digital Audio Watermark Detection of Placido rings fracture based on ECC image registration Research on High precision Calibration and Measurement Method based on Stereo Vision Comparison of Three Weak Small Moving Target Detection Methods based on Time Domain Filtering Breath Sounds Detection System based on SOPC A Novel Fiber optic Sensor for the Determination of Melting Point of Solids Method for Measuring Internal Liquid Level of Sealed Metal Container by Ultrasonic Design of Silicon on Sapphire Pressure Sensor For High Temperature And High Pressure Applications The Federated Filtering Algorithm based on the Asynchronous Multisensor System A Kind of Self tuning Kalman Filter for the High Maneuvering Target Tracking System A Multitasking Run Time Prediction Method based on GBDT in Satellite Ground Application System Unmanned Ground Vehicle Behavior Decision via Improved Bayesian Inverse Reinforcement Learning Analysis of the High Frequency Vibration on Radar Imaging in the Terahertz Band Object Tracking for Satellite Video based on Kernelized Correlation Filters and Three Frame Difference Noise Removal and Detail Enhancement of Passive Infrared Image Pretreatment Method for Robot Vision Failure Mechanism and Support Strategy of Deep Roadway with High Horizontal Stress and Broken Rock Masss Design of a Climbing Robot for Nuclear Environmental Monitoring Part V Mechatronics and Electrical Engineering I The design and simulation of the new Space Release Device The Adjusting Method of Box Girder Pose based on Spatial Coordinate Transformation Application of Discrete Element Method in the Analysis of Loader Shovel Loading Process Application of Piecewise Catenary Method in Length Calculation of Soft Busbar in Ultra high Voltage Substation Calculation Method of Stiffness Matrix in Non linear Spline Finite Element for Suspension Cable A Load Outage Judgement Method Considering Voltage Sags Macro Program Application on Non circular Curve Machining in CNC Lathe Singular Configuration Analysis for the Structure of Hybrid Grinding and Polishing Machine Static Analysis and Size Optimization for the Bed of Gantry Milling Machine based on ANSYS Workbench Research and Optimization of Clip Type Passive Manipulator Research on Material Removal of Belt Polishing for Blade Complex Surface Visual Servoing based object pick and place manipulation system Research on Wind Loads of Container Ship based on CFD Design and Research of Model Sting Support Control System of Icing Wind Tunnel Development of Control System of Icing Wind Tunnel Railway Track Collapse Monitoring System in Mining Area based on KALMAN Filter The Method of Harmonic Source Identification in Power Supply System Optimization for the Balancing Cylinder of a 3 DOF Planar Manipulator Finite Element Modal Analysis of an Eight axis Industrial Robot Painting System Applied to Boarding Bridge Painting Bayesian based Fault Identification for Nonlinear Mechatronic System with Backlash A CAD CAE Integrated Optimization of Hot Runner System Study On Tool Path Design for a Novel Incremental

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**CNC Programming Handbook** Peter Smid,2000 This handbook is a comprehensive guide to CNC programming covering virtually all CNC programming subjects in exceptional detail Both milling and turning topics are discussed with nearly 1 000 illustrations tables formulas and actual examples Besides being an invaluable in depth reference this book is well suited for use as a basic text in a wide variety of CNC training programs

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tool path editor simulator NCPlot This powerful easy to learn software includes an amazing array of features many not found in competitive products NCPlot offers an unmatched combination of simplicity of use and richness of features Support for many advanced control options is standard including a macro interpreter that simulates Fanuc and similar macro programs The CD ROM also offers many training exercises based on individual chapters along with solutions and detailed explanations Special programming and machining examples are provided as well in form of complete machine files useful as actual programming resources Virtually all files use Adobe PDF format and are set to high resolution printing FEATURES Fully functional shareware version of CNC toolpath simulator editor NCPlot TM included on the CD ROM This powerful software includes an amazing array of features including those not found in competitive products Support for many advanced features is standard and the included macro interpreter can simulate Fanuc and compatible macro toolpath programs Detailed section on CNC lathes with live tooling including examples Image files of many actual parts used as examples More programming examples both in printed text and on the CD ROM Optimized for the latest Fanuc and related control systems Additional formulas calculations and handy reference material Fourth axis programming indexing and rotary CD ROM based projects including several as interactive PDF forms Improved index for better search of topics [Parametric Programming for CNC Machining and Turning Centers](#) Mike Lynch,2013-09-29 This manual covers three very popular versions of parametric programming Fanuc s custom macro B is by far the most popular version and is the version of parametric programming being used by any control manufacturer claiming to be Fanuc compatible Yasnac Haas Mitsubishi Mazatrol s eia Seikos among others But even if you don t have Fanuc controls this manual also includes presentations for Okuma s user task 2 and Fadal s macro Over 80% of CNC machines used today are covered All presentations are applications based Each step of the way we show real world applications that you can easily adapt to your specific needs There are plenty of examples and we stress the reasons why features are available as well as how they can help you compare this your control manufacturer s descriptions of parametric programming **CATIA V5** Dieter R. Ziethen,2013-04-05 Write powerful custom macros for CATIA V5 CATIA V5 Macro Programming with Visual Basic Script shows you step by step how to create your own macros that automate repetitive tasks accelerate design procedures and automatically generate complex geometries Filled with full color screenshots and illustrations this practical guide walks you through the entire process of writing storing and executing reusable macros for CATIA V5 Sample Visual Basic Script code accompanies the book s hands on exercises and real world case studies demonstrate key concepts and best practices Coverage includes CATIA V5 macro programming basics Communication with the environment Elements of CATParts and CATProducts 2D wireframe geometry 3D wireframe geometry and surfaces Solid features Object classes VBScript commands [Learn OpenOffice.org Spreadsheet Macro Programming](#) Mark Alexander Bain,2005\* [Excel VBA 365 Handbook](#) Liew Voon Kiong,2021-02-24 This book is a complete guide to mastering Excel VBA 365 from beginner to intermediate programmers It is an excellent reference text for high

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