

FANUC Series 31i-MODEL A

MANUAL GUIDE /

15:26:26

ACTUAL POS. (MM)

X 41.000
Z -8.000
Y 0.000
C 360.000 A 0.000
E 0.000

DIST TO GO

X 0.000
Z 0.000
Y 0.000
C 0.000
A 0.000
E 0.000

SPINDLE

S 3500

FEED

F 0

MM/MIN

0

O 0500
H 0000051
I 5959
S 3500 M0
F 0.1000000
G00 10 40
G54 00 97
G90 69.1 13.1

SIMULATE-ANIMATE

1 2

00033

PRG



160 G90 G97 F5959 ;
161 G0 Z-0.0 Y0 M03 S3500 P12 ;
170 G0 X41.0 C0 M28 ;
171 (CYCLE HERE) ;
172 G1111 00.5 R2. 11. J20.5 L-6.
C1. F125. P0.5 Z11. A0.5 S125.
D0.5 E125. U1.5 V110. K0.451 ;
173 M08 P506 (COSS DRILL 1.5) ;
174 G0 X100.0 ;
175 G20 U0. V0. M45 ;
176 M09 ;
177 M1 ;

REVERSE START PROCESS SINGLE STOP INIT CUT/CP INTER FL/PATH GO/RT

Navigation buttons: Left arrow, seven square buttons, Right arrow

Fanuc Cnc Programming Manual For Makino A81

Thanh X Tran



Fanuc Cnc Programming Manual For Makino A81:

CNC Programming Handbook Peter Smid,2003 Comes with a CD ROM packed with a variety of problem solving projects **7 Easy Steps to CNC Programming... a Beginner's Guide** David S. Hayden,2003 *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 Skills: Program Entry and Editing on Fanuc Machines** S. K. Sinha,2015-05-05 Do you know how to insert a part of a program into another program at the desired location Background editing Using PCMCIA card Or maybe a simple task such as replacing G02 by G03 in the whole file When it comes to manual program entry on the machine or searching deleting editing copying moving inserting an existing program residing in the control memory or the PCMCIA card most people resort to trial and error method While they might be able to accomplish what they desire the right approach would save a lot of their precious time If this is exactly what you want this book is for you The information contained herein is concise yet complete and exhaustive The best part is that you can enjoy the convenience of having the wealth of useful information on editing techniques even on your smart phone which is always with you You would often need to refer to it because it is not possible to memorize all the steps which are many a time too complex and devoid of common logic so as to make the correct guess The following excerpt from the book would give an idea of the methodical and step by step approach adopted in the book Writing a file on the memory card The following operation will save program number 1234 in the memory card with the name TESTPRO Select the EDIT mode on the MOP panel Press the PROG key on the MDI panel Press the next menu soft key Press the soft key CARD Press the soft key OPRT Press the soft key PUNCH Type 1234 and press the soft key O SET Type TESTPROG and press the soft key F NAME Press the soft key EXEC While the file is being copied on the memory card the character string OUTPUT blinks at the lower right corner of the screen Copying may take several seconds depending on the size of the file being copied If a file with file name TESTPROG already exists in the memory card it may be overwritten unconditionally or a message confirming the overwriting may be displayed depending on a parameter setting In case of such a warning message press the EXEC soft key to overwrite and CAN soft key to cancel writing However system information such as PMC ladder is always overwritten unconditionally The copied file is automatically assigned the highest existing file number plus one The comment if any with the O word i e in the first block of the program will be displayed in the COMMENT column of the card directory To write all programs type 9999 as the program number In this case if file name is not specified all the programs are saved in file name PROGRAM ALL on the memory card A file name can have up to 8 characters and an extension up to 3 characters XXXXXXXX XXX Repeat the last three steps to copy more files Finally press the CAN soft key to cancel the copying mode and go to the previous menu *CNC Programming Tutorials: G & M Code Examples* Tran A_,2024-09-25 CNC Programming Tutorials G M

Code Examples CNC Programming Tutorials G M Code Examples is your comprehensive guide to mastering the language of CNC machines Whether you re a novice stepping into the world of computer numerical control or an experienced machinist seeking to refine your skills this book provides a clear hands on approach to programming with G code and M code Inside you ll discover Step by step tutorials Progress from beginner to advanced levels with clear explanations and illustrative examples Essential G code and M code commands Learn the core building blocks of CNC programming for precise tool movements and machine control Practical applications Explore a wide range of machining operations including drilling milling turning threading and more Real world examples Gain insights into industry standard practices with code examples for various CNC applications Troubleshooting tips Learn to identify and resolve common programming errors ensuring efficient and accurate machining This book covers Beginner intermediate and advanced CNC programming techniques Specific G code and M code commands and their applications Machining operations such as drilling milling turning threading and tapping CNC lathe and milling machine programming Practical examples and exercises to reinforce learning Whether you re a student hobbyist or professional CNC Programming Tutorials G M Code Examples empowers you to confidently program CNC machines and turn your designs into reality **CNC Programming Handbook** Peter Smid,2008-06-01

CNC Fanuc Turning Cycles Lorenzo Rausa,2021-02-18 The purpose of this book is to explain the Fanuc turning canned cycles through a new didactic concept In different manuals it is easy to find contrasting descriptions regarding the Fanuc turning canned cycles Some manuals present the G74 function as an axial drilling cycle and others present it as a grooving cycle along the Z axis The G75 function is also described in some texts as a radial grooving cycle while in others it is defined as a radial drilling cycle It should be added that the G75 function is also able to perform a facing cut with chip breaking The book aims to explain the Fanuc turning cycles in a definite way by adopting a new didactic method that is not limited to the simple description of cycle parameters but includes all the machining operations that each cycle is able to perform Cnc Programming Library Peter Smid,2006-01-01 This CD Onlyproduct contains the complete text of Peter Smid s 3 popular CNC programming books The supplemental CDs packaged with the books are included with the CD Presents complete information on various programming techniques from the basic areas to dozens of advanced concepts Includes thousands of illustrations tables formulas tips shortcuts and real world examples Offers unparalleled reference material useful for skills training at all levels of CNC Presents an encyclopedic logically organized approach to CNC programming allowing the reader to look up a subject of interest only Uses cross references throughout to guide the reader to the proper answer or solution to a problem

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

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Drilling CNC Program Examples Thanh X Tran, 2019-09-07 Guide to Drilling CNC Programming by Examples1 G82 Drilling Canned Cycle with Dwell CNC Milling Example Program2 G81 Drilling Cycle G84 Tapping Cycle CNC Program Example3 Fanuc Subprogram Example4 Fanuc G68 Coordinate Rotation Program Example5 CNC Lathe Programming Exercise Fanuc G71 Turning Cycle G74 Peck Drilling Cycle6 Drilling a Two Step Block with G81 Drilling Cycle7 Fanuc G83 Peck Drilling Cycle8 Fanuc G82 Drilling Cycle9 Fanuc G81 Drilling Cycle10 Fanuc G72 1 G72 2 Figure Copy Program Example Bolt Hole Circle 11 Peck Drilling Mill CNC Program Examples12 Pattern Drilling CNC Program Examples13 Peck Drilling Lathe CNC Program Examples

Cnc Programming Skills S. K. Sinha, 2016-06-01 The present book is the print version of the author's six eBooks in the series CNC Programming Skills Vol 1 CNC Programming Skills Program Entry and Editing on Fanuc Machines Vol 2 CNC Programming Skills Understanding G73 on a Fanuc Lathe Vol 3 CNC Programming skills Live Tool Drilling Cycles on a Fanuc Lathe Vol 4 CNC Programming Skills Understanding Offsets on Fanuc Machines Vol 5 CNC Programming Skills Understanding G32 G34 G76 and G92 on a Fanuc Lathe Vol 6 CNC Programming Skills Understanding G71 and G72 on a Fanuc Lathe

CNC Lathe machine guide: Practical programming examples Tran A_, 2024-10-01 CNC Lathe machine guide Practical programming examples is the ultimate resource for anyone looking to master CNC lathe programming This book provides clear step by step examples that will help you understand the core concepts of CNC lathe operations and how to apply them effectively in real world scenarios Whether you're a beginner or an experienced machinist this guide breaks down complex programming techniques into simple easy to follow instructions With practical examples and tips you'll learn how to optimize your CNC lathe machine's capabilities improve precision and increase productivity Ideal for students professionals and hobbyists alike this book is your go to reference for mastering the art of CNC lathe programming and taking your machining skills to the next level

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 *CNC Machining Handbook: Building, Programming, and Implementation* Alan Overby, 2010-10-06 A Practical Guide to CNC Machining Get a thorough explanation of the entire CNC process from start to finish including the various machines and their uses and the necessary software and tools CNC Machining Handbook describes the steps involved in building a CNC machine to custom specifications and successfully implementing it in a real world application Helpful photos and illustrations are featured throughout Whether you're a student hobbyist or business owner looking to move from a manual manufacturing process to the accuracy and repeatability of what CNC has to offer you'll benefit from the in depth information in this comprehensive resource CNC Machining Handbook covers Common types of home and shop based CNC controlled applications Linear motion guide systems Transmission systems Stepper and servo motors Controller hardware Cartesian coordinate system CAD computer aided drafting and CAM computer aided manufacturing software Overview of G code language Ready made CNC systems *Bridgeport Series I CNC Milling Machine; Programming Manual* Adcock-Shipley Textron, 1979* **CNC Handbook** Hans B. Kief, Helmut A. Roschiwal, 2012-09-05 Practical CNC design construction and operation techniques Gain a thorough understanding of computer based numerical control systems components and technologies Featuring hundreds of color images and schematic diagrams CNC Handbook explains machining fundamentals and shows you how to build and safely operate fully automated technically sophisticated mechatronic equipment Learn how to work with position controllers accomplish rapid and precise machine motions use CAD and CAM systems and integrate CNC into IT networks The latest CNC programming languages flexible manufacturing systems and troubleshooting methods are also discussed in this hands on guide CNC HANDBOOK COVERS Open and closed loop control systems Programmable logic controllers and switches Machine tools and machining centers Turning milling and grinding equipment Industrial robots and robot controllers Additive and flexible manufacturing systems Direct and distributed numerical control CNC programming platforms and languages Close to process production measurement *Numerical Control Programming* George C. Stanton, 1988 This text covers all the major changes in machine tool education in the past 20 years It offers a step by step approach to writing and using numerical control programs enabling readers to program workpiece geometries of higher than average complexity Writing and debugging a mill program

including contour milling is covered together with the intricacies of lathe programming and there are detailed discussions of APT and COMPACT II The book contains many sample programs references to specific machines and end of chapter review questions **CNC Turning Center Programming, Setup, and Operation 2nd Edition** Mike Lynch,2017-05-26 If you want to learn safe proven and accepted methods for programming and operating CNC turning centers you can t afford to miss this Key Concepts approach to learning how to apply CNC turning centers in manufacturing The content utilizes this unique approach to introduce you to the method of programming and operation that can be applied to horizontal and vertical machining centers This essential 28 lesson tutorial offers step by step coverage of the most popular CNC equipment in a way that anyone can understand We do assume the student possesses knowledge of basic machining practices Whether you already work for a manufacturing company that uses CNC turning centers or if you are trying to learn about CNC this study manual will provide you with the skills you need to ensure correct operation of CNC machine tools 7 Easy Steps to CNC Programming . . . Book II David S. Hayden,2003 7 Easy Steps to CNC Programming Book II Beyond the Beginning is the second book in a series of introductory books on CNC Programming This book picks up where Easy Steps to CNC Programming A Beginner s Guide leaves off This books has a Frequently Asked Questions sections advanced information on Coordinates systems NURBS how to select a CAM system How to hire programmers etc

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