FANUC Series 31i-MODEL A

ACTUAL POS. (ABS.)	DIST TO GO	SPINDLE	O 0500

```
ACTUAL POS. (ABS.)        DIST TO GO       SPINDLE              O 0500
                                                                N 00000051
X       41.000      G00                 S    3500             T 5959
                    X     0.000
Z       -8.000      Z     0.000                        0%
                    Y     0.000         FEED        MM/MIN     S      3500 M0
Y        0.000      C     0.000                              F   0.10000000
                    B     0.000         F        0
C    360.000 A   0.000   E     0.000                         G00    10      48
E      0.000                                         0%      G54    00      97
                                                             G90   69.1   13.1
```

SIMULATE-ANIMATE   1 2   **O0333**   PROG←→


```
168  G90 G97 T5959 ;
169  G0 Z-0.0 Y0 M43 S3500 P12 ;
170  G0 X41.0 C0 M28 ;
171  (CYCLE HERE) ;
172  G1111 Q0.5 H2. I1.  J20.5 L-6.
     C1. F125. P0.5 Z11. A0.5 S125.
     D0.5 E125. U1.5 V118. K0.451 ;
173  M98 P506 (CROSS DRILL 1.5) ;
174  G0 X100.0 ;
175  G28 U0. V0. M45 ;
176  M29 ;
177  M1 ;
```

REWIND	START	PROCES	SINGLE	STOP	EDIT	CUTOSP	INTERP	TLPATH	GROFF

Fanuc Sl Cnc Programming Manual

Tom Scanlan

Fanuc Sl Cnc Programming Manual:

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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

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