7) Write a manual part program for the profile as show
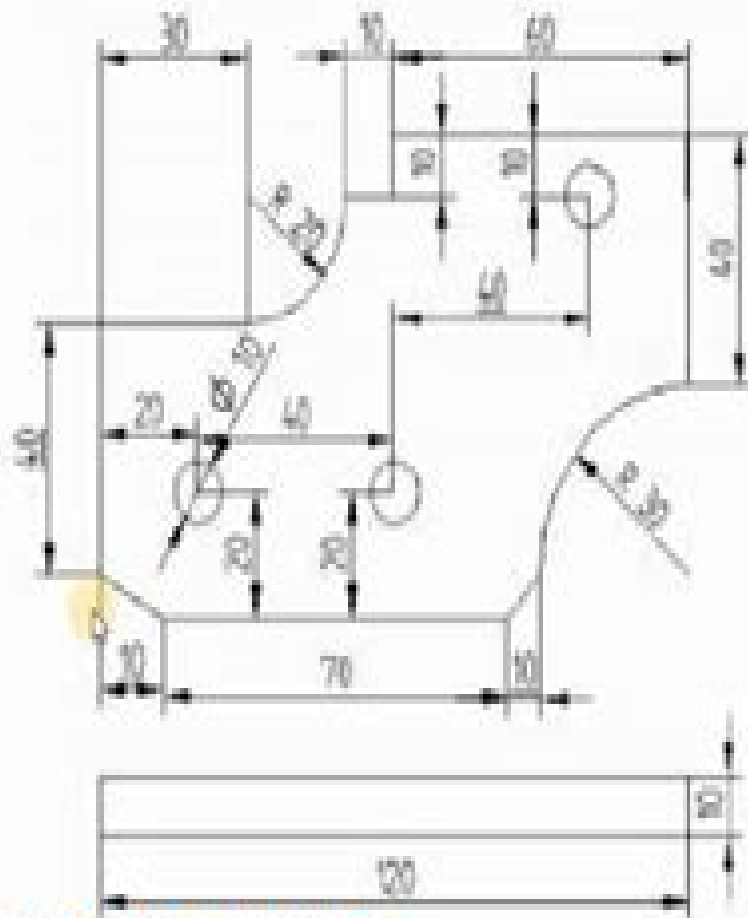
Note: All dimensions are in mm only

shades

```
EX 1 - Notepad
File Edit Format View Help
D1025
G21 G90
G28 X0 Y0 Z0
M06 T0101
M03 S500
M08

G00 X0 Y0 Z5
X-10 Y10
G42
G01 Z-10 F0.3
X30 Y0
X30
X30 Y50
G02 X120 Y40 Z-10 R30
G00 X120 Y80 Z5
G00 X60 Y80 Z5
G01 X60 Y70 Z-10 F0.2
G01 X50 Y70 Z-10 F0.2
G02 X30 Y50 Z-10 R30
G01 X0 Y50 Z-10 F0.2
G00 X-10 Y0 Z5
G40
G00 X-10 Y0 Z5
G00 X20 Y20 Z5
G01 Z-10 F0.2
G00 Z5
G00 X60 Y20
G01 Z-10 F0.3
G00 Z5
G00 X100 Y70
G01 Z-10 F0.3
G00 Z5

G28 X0 Y0 Z0
M05 M09
M30
```

Cnc Milling Programming Manual

David S. Hayden

Cnc Milling Programming Manual:

CNC Programming Handbook Peter Smid,2003 Comes with a CD ROM packed with a variety of problem solving projects *Bridgeport Series I CNC Milling Machine; Programming Manual* Adcock-Shipley Textron,1979* *CNC Programming Handbook* Peter Smid,2008 This latest edition of a popular reference contains a fully functional shareware version of CNC toolpath simulator editor NCPlott on the CD ROM a detailed section on CNC lathes with live tooling image files of many actual parts the latest Fanuc and related control systems and much more CNC Milling Programming. Linear & Circular interpolations for a workpiece Roland Nathan Kalonji,2018-03-20 Research Paper postgraduate from the year 2017 in the subject Engineering Mechanical Engineering University of the Witwatersrand language English abstract A combined 3D linear and circular interpolation principle is developed on the basis of the 3D linear and circular interpolation principles The task was to choose and design a creative item to be machined using CNC machining which then required to write a code using CNC language Prior to the machining process we did a Computer Aided Design CAD drawing of the workpiece The drawing was further modified with the final model drawn using Auto Desk Inventor We used foam for our model and a 31 diameter end mill tool The main problem that was experienced was the cutting time the model took longer to be complete The cutting time was affected by the complexity of the design chosen tool size and the cutting technique Besides we learnt from the demonstration that the shorter the constructed code the more robust it is using a bigger tool is more efficient in terms of saving energy and time and that if the code is correct the CNC machine model becomes identical to that of the product Design **Programming Manual for the Series I CNC Milling, Drilling & Boring Machine** Bridgeport Machines,1980 *7 Easy Steps to CNC Programming... a Beginner's Guide* David S. Hayden,2003 **Army Sustainment** ,2015 The Department of the Army s official professional bulletin on sustainment publishing timely authoritative information on Army and Defense sustainment plans programs policies operations procedures and doctrine for the benefit of all sustainment personnel **CNC Milling in the Workshop** Marcus Bowman,2013-08-31 CNC control of milling machines is now available to even the smallest of workshops This allows designers to be more ambitious and machinists to be more confident of the production of parts and thereby greatly increase the potential of milling at home This new accessible guide takes a practical approach to software and techniques and explains how you can make full use of your CNC mill to produce ambitious work of a high standard Includes Authoritative advice on programming and operating a CNC mill Guide to the major CAD CAM CNC software such as Mach3 LinuxCNC and Vectric packages without being restricted to any particular make of machine Practical projects throughout and examples of a wide range of finished work A practical approach to how you can make full use of your CNC mill to produce ambitious work Aimed at everyone with a workshop particularly modelmakers and horologists Superbly illustrated with 280 colour illustrations Dr Marcus Bowman has been machining metal for forty years and is a lifelong maker of models clocks and tools Computer Numerical Control Simplified Stephen

F. Krar,Arthur Gill,Peter Smid,2001 This textbook covers the basics of CNC introducing key terms and explaining the codes It uses Fanuc compatible programming in examples and provides CAD CAM lathe and mill program examples accompanied by computer screen displays Included is a CAD CAM software program for designing parts generating machine codes and simulating the tool path to check for programming errors An illustrated glossary is also included Annotation copyrighted by Book News Inc Portland OR   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   *Resources in Education* ,1992-05   *Basic Manufacturing* Roger Timings,2006-08-11 Basic Manufacturing has already established itself as a core text for manufacturing courses in Further Education The new edition has been revised to be fully in line with the new Vocational GCSE in Manufacturing from Edexcel covering the three compulsory units of this scheme and will continue to act as a core text for Intermediate GNVQ Coverage of the two schemes is combined throughout the text yet each chapter clearly illustrates which sections map to which units within the two scheme specifications The author s approach is student centred with self check questions and activities provided throughout As a result the book is well suited to independent study It is also clearly written to appeal to students of all abilities Review questions are provided at the end of each chapter to consolidate learning and give practice for external assessments The third edition contains a brand new chapter to cater for the examinable part of the GCSE syllabus Unit 3 which includes case studies in the six sectors covered in the scheme food and drink biological and chemical printing and publishing paper and board textiles and clothing engineering fabrication mechanical automotive engineering electrical and electronic engineering computer process control telecommunications The book is an excellent readable introduction to the technical and business aspects of the manufacturing industry that will be invaluable for students on a wide range of courses including City and Guilds certificates It also provides a good grounding for students embarking on higher level programmes within Manufacturing Roger Timings is one of the UK s leading authors of textbooks on manufacturing and engineering   **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 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 Handbook of Machine Tools Manfred Weck,1984 **Computer Numerical Control** Warren S. Seames,1995 From basic numerical control to advanced CNC programming This title takes you step by step through the applications Includes coverage of CAD CAM Technology **The National Guide to Educational Credit for Training Programs** American Council on Education,2005 Highlights over 6 000 educational programs offered by business labor unions schools training suppliers professional and voluntary associations and government agencies **Computer Numerical Control for Machining** Mike Lynch,1992 Written to help the CNC novice achieve a practical understanding of the sophisticated equipment involved includes comprehensive explanations of all aspects of the methodology and presents detailed information on manual programming conversational programming a topic of growing significance in the field and machine operations Examines successful CNC operations in a wide variety of applications milling machines machining and turning centers turret punch presses wire EDM machines grinding equipment and laser cutting equipment Annotation copyrighted by Book News Inc Portland OR Machinery's Handbook Erik Oberg,Franklin D. Jones,2008 Provides mechanical and manufacturing engineers designers draftsmen toolmakers and machinists with a broad range material from the very basic to the more advanced This title also provides industry fundamentals and standards with material reflecting technological advances Computer Numerical Control Programming Michael Sava,Joseph Pusztai,1990 A complete discussion of computer numerical control s revolutionary technology provides students with a thorough analysis of CNC concepts programming offsets compensation canned cycles and other features

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