

## GTCNC-150IT-II

### CNC LATHE CONTROLLER

#### FEATURES

- Controllable axes 2-5.
- Linkage axis: linear 2-5, circular 2 axes.
- 32 bits 200MHz ARM industrial microprocessor.
- 32MB user memory.
- 8.4 inch TFT colorfull LCD display.
- Real-time and all-round self-diagnosis function.
- Feed per minute, feed per revolution.
- Metric system, English system input mode.
- Linear, circular, thread interpolation can realize machining of metric/inch single/multi-thread, taper thread, end-face thread, variable pitch thread, continual thread.
- Multiple Compound cycle instructions, such as: ex-circle rough turned compound cycle, head face rough turned compound cycle, complex type-outline rough turned compound cycle, outer diameter/inside diameter (grooving) compound cycle, thread cutting compound cycle etc.
- Automatic backlash compensation and storage type pitch error compensation, Tool length automatic compensation, tool radius compensation.
- Set the max speed and up-down speed of each axis independently.
- Shift of programmed unit between metric and British mode.
- Setting of auxiliary axis' angle and displacement programme.
- Multiple coordinate system setting.
- Soft and hard limit function for max stroke.
- Powerful tool management function: Managing 50 tools and can control diverse tool post (such as electrical, hydraulic, servo).
- Display current time, single piece time and running time.
- Multiple interpolation function and M, S, T function.
- Parameter, software backup and upgrade function.

#### SPECIAL ADVANTAGE

##### ◆ SPEED

- Max rapid traverse : 60m/min
- Max cutting speed: 30m/min
- Program preview, realizing smooth connection between blocks

##### ◆ PRECISION

- Screw pitch compensation, improving machining precision to the most
- Pulse equivalent: 0.001mm

##### ◆ INTERFACE

- Embedded PLC with I/O number 118 x 46, users can free to edit.
- USB port, RS232 port supply DNC function by transmit rate 115200bit.
- MPG on board or separate MPG are available.
- Dual channel control of spindle speed, can control two spindle Units and diverse tool



# Control Techniques Cnc Manual

**Ranjit Barua**



## **Control Techniques Cnc Manual:**

**CNC Programming Handbook** Peter Smid, 2003 Comes with a CD ROM packed with a variety of problem solving projects *Theory and Design of CNC Systems* Suk-Hwan Suh, Seong Kyoong Kang, Dae-Hyuk Chung, Ian Stroud, 2008-08-22 Computer Numerical Control CNC controllers are high value added products counting for over 30% of the price of machine tools The development of CNC technology depends on the integration of technologies from many different industries and requires strategic long term support Theory and Design of CNC Systems covers the elements of control the design of control systems and modern open architecture control systems Topics covered include Numerical Control Kernel NCK design of CNC Programmable Logic Control PLC and the Man Machine Interface MMI as well as the major modules for the development of conversational programming methods The concepts and primary elements of STEP NC are also introduced A collaboration of several authors with considerable experience in CNC development education and research this highly focused textbook on the principles and development technologies of CNC controllers can also be used as a guide for those working on CNC development in industry **Resources in Education**, 1999 *Computer Aided Manufacturing*, 2005 *Computer Integrated Manufacturing* Dr. R. Raghu Chand, Dr. Ram Subbiah, Dr. Gunaselvi Manohar, Dr. P. Subha Hency Jose, Dr. L. Girisha, Dr. D. K. Veeranna, 2020-12-01 This book covers computer integrated manufacturing systems analysis of automated flow line line balancing automated assembly systems computerized manufacturing planning systems CNC machining centers and robotics **Computer Aided Manufacturing** C. Elanchezhian, G. Shanmuga Sundar, 2007

*Advanced Design and Manufacturing Based on STEP* Xun Xu, Andrew Yeh Ching Nee, 2009-09-29 Design and manufacturing is the essential element in any product development lifecycle Industry vendors and users have been seeking a common language to be used for the entire product development lifecycle that can describe design manufacturing and other data pertaining to the product Many solutions were proposed the most successful being the Standard for Exchange of Product model STEP STEP provides a mechanism that is capable of describing product data independent from any particular system The nature of this description makes it suitable not only for neutral file exchange but also as a basis for implementing sharing and archiving product databases ISO 10303 AP203 is the first and perhaps the most successful AP developed to exchange design data between different CAD systems Going from geometric data as in AP203 to features as in AP224 represents an important step towards having the right type of data in a STEP based CAD CAM system Of particular significance is the publication of STEP NC as an extension of STEP to NC utilising feature based concepts for CNC machining purposes The aim of this book is to provide a snapshot of the recent research outcomes and implementation cases in the field of design and manufacturing where STEP is used as the primary data representation protocol The 20 chapters are contributed by authors from most of the top research teams in the world These research teams are based in national research institutes industries as well as universities **Tool and Manufacturing Engineers Handbook: Continuous**

**Improvement** Charles Wick, Ramon Bakerjian, Society of Manufacturing Engineers, 1983 Part of the renowned TMEH Series the book contains hundreds of practical new ways to make continuous improvement work and keep on working quality management guidelines quality and productivity improvement ideas cost reduction tips continuous process improvement plus how to use world class techniques such as TPM TQM benchmarking JIT activity based costing improving customer supplier relationships and more You ll also learn from best practices examples for quality training teamwork empowerment self assessment using Baldrige Quality Award criteria ISO 9000 audits and certification and more

**Programming of Computer Numerically Controlled Machines** Kenneth W. Evans, John Polywka, Stanley Gabrel, 2001 Provides descriptions of many operation and programming functions and their practical application to turning and milling machines End of chapter study questions make the book suitable for use as a textbook The second edition adds two chapters on CAD CAM and conversational programming Annotation c Book News Inc Portland OR booknews.com

*Manufacturing Technology - II* Anup Goel, 2021-01-01 Manufacturing Technology II is a branch of mechanical engineering which extensively deals with the production of industrial goods with the help of advanced tools and machinery This subject gives information which covers the more practical knowledge than the theory It provides tool to enable production of manufacturing goods efficiently The subject gives idea to maximise product quality and to minimise the production cost It also gives information about the different surface finishing techniques My hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge

*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

**Computer Aided Design and Manufacturing** M.M.M. SARCAR, K. MALLIKARJUNA RAO, K. LALIT NARAYAN, 2008-05-05 The impact of the technology of Computer Aided Design and Manufacturing in automobile engineering marine engineering and aerospace engineering has been tremendous Using computers in manufacturing is receiving particular prominence as industries seek to improve product quality increase productivity and to reduce inventory costs Therefore the emphasis has been attributed to the subject of CAD and its integration with CAM Designed as a textbook for the undergraduate students of mechanical engineering production engineering and industrial engineering it provides a description of both the hardware and software of CAD CAM systems The Coverage Includes Principles of interactive computer graphics Wireframe surface and solid modelling Finite element modelling and analysis NC part programming and computer aided part programming Machine vision systems Robot

technology and automated guided vehicles Flexible manufacturing systems Computer integrated manufacturing Artificial intelligence and expert systems Communication systems in manufacturing PEDAGOGICAL FEATURES CNC program examples and APT program examples Review questions at the end of every chapter A comprehensive Glossary A Question Bank at the end of the chapters

**Computer Integrated Manufacturing (Iccim '91): Manufacturing Enterprises Of The 21st Century - Proceedings Of The International Conference** B S Lim,1991-10-02 In the 21st century computer integrated manufacturing CIM systems will not only be the economic development tools but will also be the essential means of achieving a higher level of flexibility cohesiveness and performance CIM systems are beginning to settle into our society and industries with greater emphasis on the integration of economic cultural and social aspects together with design planning factory automation and artificial intelligent systems This volume of proceedings brings together 10 keynote and invited speaker addresses and over 180 papers by practitioners from 28 countries It documents current research and in depth studies on the fundamental aspects of advanced CIM systems and their practical applications The papers fall into 3 main sections CIM Related Issues Industrial AI Applications Aspects and Concurrent Engineering Advanced Design Simulation and Flexible Manufacturing Systems

Practical Machining Techniques Pasquale De Marco,2025-04-18 Practical Machining Techniques is the definitive guide to the fundamental principles and practices of machining This comprehensive book covers everything from safety practices to measurement techniques to the operation of basic and advanced machine tools With over 450 pages of content this book is packed with practical examples and illustrations that help to explain the concepts and techniques discussed Whether you are a student a hobbyist or a seasoned machinist this book will provide you with the knowledge and skills you need to excel in this field This book is the perfect resource for anyone who wants to learn more about machining It is also an essential reference for anyone who works in the manufacturing industry Whether you are just starting out in machining or you are looking to expand your knowledge and skills Practical Machining Techniques is the perfect resource Order your copy today and start learning the art of machining If you like this book write a review on google books

Work Process Knowledge Nicholas Boreham,Martin Fischer,Renan Samurçay,2003-08-27 Work Process Knowledge brings together the findings of twenty four leading researchers on new forms of work and the demands these place on workers knowledge and skill Their findings based on a new set of investigations in a wide range of manufacturing and service industries identify the kinds of knowledge required to work effectively in the post Taylorist industrial organization Raising fundamental issues for current industrial policy science and technology policy and ways of managing the post Taylorist organization and developing human resources this book will be of essential interest to academics and professionals working in the fields of management human resource development and workplace learning

**Functional Reverse Engineering of Strategic and Non-Strategic Machine Tools** Wasim Ahmed Khan,Khalid Rahman,Ghulam Hussain,Ghulam Abbas,2021-06-20 This book describes capacity building in strategic and non strategic

machine tool technology It includes machine building in sectors such as machine tools automobiles home appliances energy and biomedical engineering along with case studies The book offers guidelines for capacity building in academia covering how to promote enterprises of functional reverse engineering enterprises It also discusses machine tool development engineering design prototyping of strategic and non strategies machine tools as well as presenting communication strategies and IoT along with case studies Professionals from the CNC Computer Numeric Control machine tools industry industrial and manufacturing engineers and students and faculty in engineering disciplines will find interest in this book

**Robotics, Automation and Computer Numerical Control** Ranjit Barua,2024-10-08 Robotics Automation and Computer Numerical Control provides an insightful exploration into the principles and applications of robotics and automation technologies delving into the transformative impact they have on modern manufacturing Covering the fundamentals of robotics the integration of automation systems and the intricacies of CNC technology this book offers readers a comprehensive understanding of how these technologies interact to enhance precision efficiency and productivity in various industrial settings With real world examples practical applications and an emphasis on the latest trends this guide serves as an invaluable resource for students engineers and professionals seeking to deepen their knowledge in the field Whether you are entering the world of advanced manufacturing or looking to stay updated with cutting edge developments this book equips you with the essential tools to navigate the evolving landscape of automation and robotics

**Springer Handbook of Automation** Shimon Y. Nof,2009-07-16 Automation is undergoing a major transformation in scope and dimension and plays an increasingly important role in the global economy and in our daily lives Engineers combine automated devices with mathematical and organizational tools to create complex systems for a rapidly expanding range of applications and human activities This handbook incorporates these new developments and presents a widespread and well structured conglomeration of new emerging application areas of automation Besides manufacturing as a primary application of automation the handbook contains new application areas such as medical systems and health transportation security and maintenance service construction and retail as well as production or logistics This Springer Handbook is not only an ideal resource for automation experts but also for people new to this expanding field such as engineers medical doctors computer scientists designers It is edited by an internationally renowned and experienced expert

*Advances In Manufacturing Technology IX* D Stockton,C Wainwright,1995-09-07 This volume represents the state of the art knowledge in the area of production and manufacturing engineering and management The contributions cover such themes as design for manufacture AMT manufacturing systems knowledge based systems The text is interspersed with real life industrial case study experiences so making explicit the relevance of these research findings to the improvementof current industrial practice

Tool and Manufacturing Engineers Handbook: Machining Thomas J. Drozda,1983-05-02 Part of the renowned Tool and Manufacturing Engineers Handbook Series the Machining Vol 1 helps you apply cost effective techniques to achieve the best

results for over 100 traditional and nontraditional machining processes Chapters include Principles of Metalcutting and Machinability Tolerance Control Cutting Tool Materials Sawing Broaching Planing Shaping and Slotting Turning and Boring Milling Grinding Threading Gear and Spline Production Nontraditional Machining Machine Loading and Unloading Machine Rebuilding and much more

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