

PREVENTIVE MAINTENANCE CHECKLIST

✓ EVERY DAY

1. Check the hydraulic pressure to make sure it's at 4.5 MPa
2. Check the hydraulic fluids to make sure they're at the right operating level
3. Check to make sure the chuck pressure is at the right operating pressure and grease chuck according to manufacturer's recommendation
4. Make sure the way lube level is at the right operating level, and replenish if needed
5. If your CNC machine has a cooling system, make sure the cooling unit level is at the right operating level
6. Clean the chips out of the chip pan
7. Clean off the window of the door and the light so you can see inside your machine
8. Wipe down any stainless steel way covers and lubricate them with hydraulic oil so they move smoothly
9. On a weekly basis (or every 40 hours) take the filter off the CNC control cabinet and clean it so air will be able to flow through for cooling

✓ EVERY THREE MONTHS (or 500 hours)

1. Check and grease the chain on the chip conveyor
2. Check and clean the filters on the coolant tank

NEXT QUARTERLY MAINTENANCE DUE:

✓ EVERY SIX MONTHS (or 1,000 hours)

Contact your local distributor to have the following PM performed by a **certified Okuma Engineer**:

1. Have the coolant tank cleaned of sludge, chips, and oil
2. Have the chuck and jaws taken off the machine and cleaned
3. Have the hydraulic tank drained and replace the hydraulic oil with fresh hydraulic oil—also have the line filter and suction filter changed
4. Have the radiator cleaned and make sure the radiator fins are straight
5. Have the lubrication unit drained and cleaned out—then add fresh way lube
6. If your machine is equipped with a cooling unit, have the unit drained and refilled
7. Have the levelling of your machine checked and adjust if necessary
8. Have all way wipers inspected for any damage—clean and replace any wipers that are damaged

NEXT BIENNIAL MAINTENANCE DUE:

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✓ ONCE A YEAR (or 2,000 hours)

Contact your local distributor and have the following inspected:

1. Have the headstock checked for taper
2. Have the spindle checked for radial and end play
3. Have the chuck cylinder checked for run out
4. Have the tailstock checked for taper
5. Have the turret parallelism and inclination checked
6. Have your distributor run a backlash program to check the backlash in X- and Z-axes and adjust if necessary
7. Have your distributor check the X- and Z-axis gibs and adjust if necessary

NEXT ANNUAL MAINTENANCE DUE:

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From daily care to annual maintenance, this is a handy preventive maintenance (PM) checklist to ensure your machines reach peak performance for as long as possible.

For more preventive maintenance tips, visit www.okuma.com.

Okuma Mill Operator Manual

Peter Lambeck



Okuma Mill Operator Manual:

Japan Company Handbook, 1985 *An Investigation of Labor Flexibility in Cellular Manufacturing Systems* Viviana I. Cesan , 1998 *User's Manual to the International Annual Reports Collection*, 1988 **User's Manual for the Microfiche D/international ... Document Collection**, 1989 *High-Speed Machining* Kapil Gupta, J. Paulo Davim, 2020-01-31 High Speed Machining covers every aspect of this important subject from the basic mechanisms of the technology right through to possible avenues for future research This book will help readers choose the best method for their particular task how to set up their equipment to reduce chatter and wear and how to use simulation tools to model high speed machining processes The different applications of each technology are discussed throughout as are the latest findings by leading researchers in this field For any researcher looking to understand this topic any manufacturer looking to improve performance or any manager looking to upgrade their plant this is the most comprehensive and authoritative guide available Summarizes important R D from around the world focusing on emerging topics like intelligent machining Explains the latest best practice for the optimization of high speed machining processes for greater energy efficiency and machining precision Provides practical advice on the testing and monitoring of HSM machines drawing on practices from leading companies **American Machinist & Automated Manufacturing**, 1987-07 **Energy and Water Development Appropriations for Fiscal Year 1986: Department of Energy** United States. Congress. Senate. Committee on Appropriations. Subcommittee on Energy and Water Development, 1985 *Flexible Automation in Japan* J. Hartley, 2013-04-09 Much has been said and written about Japan s manufacturing prowess Most of the comment comes from people who are merely visitors to the country and can be best classified as observers looking in from the outside Other views come from the Japanese themselves in which the double barrier of culture and language filters out much information that would be of real value to Western industrialists Neither of these limitations apply to John Hartley who has been resident in Japan for the past five years He understands the culture can speak the language and has extensive contacts at the highest level Therefore he is in a unique position to report on the Japanese scene and its activities in advanced manufacturing technology This he has been doing on a regular basis to IFS magazines The Industrial Robot Assembly Automation Sensor Review and The FMS Magazine Most of the material in this book is from John Hartley s pen and represents his most significant contributions on flexible automation in Japan to these journals over the last three years It is augmented with a few other articles written by leading authorities on new technology in Japanese manufacturing industry *Erie Pennsylvania City Directory*, 1992 **Easy CNC Turning Programming English Hand Book By Sanjay Sharma** Sanjay Sharma, 2025-04-15 This book is a comprehensive guide to CNC basic programming which has been written for the use of students of ITI Diploma B Tech etc Technical courses ATS Scheme CNC Programmer Cum Operator DGT Nimi course and machine operators machine setters and supervisors working in other types of industries Nowadays the increasing use of CNC in industries has given rise to its need Only those people who know about

it and are capable of preparing part programs can guide the machine tools Using which parts are prepared with the required size and accuracy Keeping this in mind I have prepared this textbook in Hindi to bring out the mystery of CNC programming It has been put in a logical order and written in a very simple language which everyone can understand very easily To create a program the step by step process has been explained in this book with useful examples which will greatly benefit the students associated with this field In this book I have used the method created by me to write the program in which I have described each G and M code in detail in this book Coordinate systems have been explained in detail in simple language For this space has been left to practice all the coordinate systems This will help in understanding this chapter easily In this most of the machining centers functions of machines working method of the machine and the main parts of the machine control panel buttons related to the operator panel have been described in detail Simple method of making programs has been explained with examples An attempt has been made to cover most of the machining processes in this Different types of materials and detailed pictures have been included to help in understanding it My feeling is that anyone who wants to make their future in CNC programming will benefit from this book and they will emerge as a successful CNC programmer Many readers who may need some other different kind of programmer will benefit from these references with additional information On the other hand those who do not need further information about CNC programming can ignore those few pages and only explore the topics covered in this book I sincerely hope that this book will help you transform from a better CNC operator to a programmer by understanding not only the HOW but also the WHY of many programming techniques

Energy and Water Development Appropriations for Fiscal Year 1986 United States. Congress. Senate. Committee on Appropriations. Subcommittee on Energy and Water Development, 1985 **4 Axis CNC Programming with Mastercam X6**
 Fred Fulkerson, A comprehensive guide to programming four axis CNC milling machines using Mastercam **American Machinist**, 1981 **Bowker's Complete Video Directory**, 2000 **Japan Company Directory**, 1985 *American Machinist, Metalworking Manufacturing*, 1964-10 **Manufacturing System** Faieza Abdul Aziz, 2012-05-16 This book attempts to bring together selected recent advances tools application and new ideas in manufacturing systems Manufacturing system comprise of equipment products people information control and support functions for the competitive development to satisfy market needs It provides a comprehensive collection of papers on the latest fundamental and applied industrial research The book will be of great interest to those involved in manufacturing engineering systems and management and those involved in manufacturing research **AMTIL the Source** Peter Lambeck, 2009 Journal dates 2008 2009 Annual 2008 **Chilton's Iron Age**, 1982 **Power Transmissions** George Dobre, 2013-07-11 This books contains the Proceedings of the 4th International Conference on Power Transmissions that was held in Sinaia Romania from June 20 23 2012 Power Transmissions is a very complex and multi disciplinary scientific field of Mechanical Engineering that covers the different types of transmissions mechanical hydraulic pneumatic as well as all the machine elements involved such as gears

bearings shafts couplings and a lot more It concerns not only their basic theory but also their design analysis testing application and maintenance The requirements set to modern power transmissions are really tough to meet They need to be more efficient stronger smaller noiseless easier to produce and to cost less There is a strong demand to become easier in operation and maintenance or even automatic and in maintenance free Last but not least they should be easily recycled and respect the environment Joint efforts of specialists from both academia and industry can significantly contribute to fulfill these needs The main goal of this conference was to bring together experts from all over the world and present the latest developments in the field of Power Transmissions

Decoding **Okuma Mill Operator Manual**: Revealing the Captivating Potential of Verbal Expression

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Okuma Mill Operator Manual Introduction

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