

# Tsugami Swiss Cnc Lathe Programming Manual

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an examination of fifteen numerically controlled lathe programming systems was conducted to characterize them qualitatively  
and quantitatively the report presents a description of each of the fifteen voluntary participants systems the report describes  
the non technical characteristics of each system the business and operational characteristics such as hardware and software  
sources and costs documentation training vendor support and maintenance tabulates the capabilities of the languages for  
description of the geometrical configurations of the part being programmed and the variety of the geometrical formats  
accepted by each system as manuscript statements discusses the use of macros to simplify the writing of programs to  
perform the common operations of all lathe work automatic roughing finishing along a profile threading grooving and  
necking drilling boring reaming and tapping presents a brief discussion of the distinguishing characteristics of each system  
describes the preparation of ten test parts for use in demonstrating the capabilities of the fifteen systems describes the  
capabilities demonstrated by the fifteen systems to program the ten test parts the amount of time required to write the  
program and to debug it it shows the success in processing and postprocessing the program and the verification of the  
output tape

this unique reference features nearly all of the activities a typical cnc operator performs on a daily basis starting with  
overall descriptions and in depth explanations of various features it goes much further and is sure to be a valuable resource

for anyone involved in cnc

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

comes with a cd rom packed with a variety of problem solving projects

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