

HAAS MILL SETUP

1. Program preparation

- Ensure drawing package and dimensioning meet senior design criteria
- Run simulation in MasterCAM and have code approved by a mentor
- Have drawings and a machining plan on hand for quick access



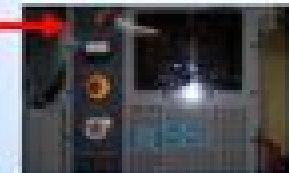
2. Maintenance

- Check coolant; make sure container is $\frac{3}{4}$ full
- Clean chips from operating table and machinery
- Make sure tools are sharp and in operating condition



3. Startup

- Turn HAAS Mill on (green POWER ON button)
- Sign and date sheet on right side of control interface
- Perform warm-up if machine has not been run in 3 days
LIST PROG => Spindle warm-up => Start=>
Spindle Speed = 40%



4. Tool Preparation

- Setup tools in tool holders on cart
- Put tools in proper order on the HAAS carriage
- Place material securely in the jig
- Zero z-axis for each tool implementing feeler gauge
- Zero x- and y-axis to common corner on the material to be machined
- Refer to Section 2.9: Tool Changer Setup Procedure on page 18 in the Operator's Manual



5. Program Loading

- Upload the program
LIST PROG => select program using CURSOR => SELECT PROG
- Perform a dry run

*For troubleshooting
see operators
manual

Haas Mill Quick Setup Guide

Albert A Gayle



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7 Easy Steps to BobCAD/CAM V19/v20... a Beginner's Guide David S. Hayden,2005 **Data Science Quick Reference Manual - Advanced Machine Learning and Deployment** Mario A. B. Capurso, This work follows the 2021 curriculum of the Association for Computing Machinery for specialists in Data Sciences with the aim of producing a manual that collects notions in a simplified form facilitating a personal training path starting from specialized skills in Computer Science or Mathematics or Statistics It has a bibliography with links to quality material but freely usable for your own training and contextual practical exercises Part in a series of texts it first summarizes the standard CRISP DM working methodology used in this work and in Data Science projects As this text uses Orange for the application aspects it describes its installation and widgets The data modeling phase is considered from the perspective of machine learning by summarizing machine learning types model types problem types and algorithm types Advanced aspects associated with modeling are described such as loss and optimization functions such as gradient descent techniques to analyze model performance such as Bootstrapping and Cross Validation Deployment scenarios and the most common platforms are analyzed with application examples Mechanisms are proposed to automate machine learning and to support the interpretability of models and results such as Partial Dependence Plot Permuted Feature Importance and others The exercises are described with Orange and Python using the Keras Tensorflow library The text is accompanied by supporting material and it is possible to download the examples and the test data **Mastercam X2 with SolidWorks Training Guide Mill 2D** Matthew Manton,Duane Weidinger,2007 *Game Programming Using Qt: Beginner's Guide* Witold Wysota,Lorenz Haas,2016-01-29 A complete guide to designing and building fun games with Qt and Qt Quick 2 using associated toolsets About This Book Learn to create simple 2D to complex 3D graphics and games using all possible tools and widgets available for game development in Qt Understand technologies such as QML Qt Quick OpenGL and Qt Creator and learn the best practices to use them to design games Learn Qt with the help of many sample games introduced step by step in each chapter Who This Book Is For If you want to create great graphical user interfaces and astonishing games with Qt this book is ideal for you Any previous knowledge of Qt is not required however knowledge of C is mandatory What You Will Learn Install Qt on your system Understand the basic concepts of every Qt game and application Develop 2D object oriented graphics using Qt Graphics View Build multiplayer games or add a chat function to your games with Qt s Network module Script your game with Qt Script Program resolution independent and fluid UI using QML and Qt Quick Control your game flow as per the sensors of a mobile device See how to test and debug your game easily with Qt Creator and Qt Test In Detail Qt is the leading cross platform toolkit for all significant desktop mobile and embedded platforms and is becoming more popular by the day especially on mobile and embedded devices Despite its simplicity it s a powerful tool that perfectly fits game developers needs Using Qt and Qt Quick it is easy to build fun games or shiny user interfaces You only need to create your game once and deploy it on

all major platforms like iOS Android and WinRT without changing a single source file The book begins with a brief introduction to creating an application and preparing a working environment for both desktop and mobile platforms It then dives deeper into the basics of creating graphical interfaces and Qt core concepts of data processing and display before you try creating a game As you progress through the chapters you ll learn to enrich your games by implementing network connectivity and employing scripting We then delve into Qt Quick OpenGL and various other tools to add game logic design animation add game physics and build astonishing UI for the games Towards the final chapters you ll learn to exploit mobile device features such as accelerators and sensors to build engaging user experiences If you are planning to learn about Qt and its associated toolsets to build apps and games this book is a must have Style and approach This is an easy to follow example based comprehensive introduction to all the major features in Qt The content of each chapter is explained and organized around one or multiple simple game examples to learn Qt in a fun way *Army Sustainment* ,2015 The

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