Cyborg X-200 Desktop Engraving machine - Table of contents

Introduction

- General instructions - Safety instructions
  - Safety before all – General safety instructions
  - List of warning, mandatory and prohibition signs
  - Warning labels
  - Machine label
- Technical Specifications
- Handling and use

Chapter 1 – Getting started

1.1. Features

- 1.1.1. Rotary engraving
- 1.1.2. Diamond scratching

1.2 Component names and functions

- 1.2.1. Front view
- 1.2.2. Rear view
- 1.2.3. Virtual keypad

Chapter 2 – Installation and setup

2.1. Installation environment

2.2. Unpacking

- 2.2.1. Unpacking
- 2.2.2. Checking the contents of the box

2.3. Cable connections

- 2.3.1. Checking the supply voltage
- 2.3.2. Connecting the power cable
- 2.3.3. Connecting the X-300 to your computer or network

2.4. Installing the software

- 2.4.1. System requirements

- 2.4.2. Configuring the PC's ethernet port
- 2.4.3. Installing the Cyborg virtual pendent
- 2.4.4. Registering and starting the Cyborg pendent software
- 2.4.5. Installing the “Symmetry” engraving software
- 2.4.6. Using other third party software

Chapter 3 – Preparing and executing an engraving job

3.1. Switching the power on and off

- 3.1.1. Switching the power on
- 3.1.2. Switching the power off

3.2. Securing the engraving material onto the engraving table

- 3.2.1. Using the standard included flat engraving table
- 3.2.2. Using the “MultiMat” sheet
- 3.2.3. Using the optional “quick lock vise”

3.3. Setting up a tool

- 3.3.1. How to use the optional cutter calibration stand
- 3.3.2. Installing an engraving tool
- 3.3.3. Installing a scoring tool
- 3.3.4. Installing a diamond scratch tool
- 3.3.5. How to remove a tool from the spindle

3.4. Engraving with nosecone or without nosecone

- 3.4.1. Engraving with floating nosecone
  - 3.4.1.1. Calibration of the nosecone and the optional cutter stand
  - 3.4.1.2. How to use the depth limiting nosecone
  - 3.4.1.3. How to use the spindel spring pressure
- 3.4.2. Engraving without floating nosecone
  - 3.4.2.1. Defining the plate surface
  - 3.4.2.2. How to enter the engraving depths in Symmetry
  - 3.4.2.3. Locking the spring pressure to engrave without nosecone

3.5. How to cut materials

- 3.5.1. Materials rotation speed and feed
- 3.5.2. Two-way engraving metals
- 3.5.3. Adjusting feeds and speeds
- 3.5.4. Pause button
- 3.5.5. Cancelling the engraving job
- 3.5.6. Restarting the engraving job

3.6. Controlling the X-300 using the ‘virtual keypad’

- 3.6.1. Keypad overview
  - Introduction - General overview
  - Function keys
  - Settings screen
- 3.6.2. Setting and saving origin points

Chapter 4 – Maintenance and cleaning

4.1. Cleaning – a must to prolong your machine’s lifetime

4.2. Periodical maintenance

- 4.2.1. daily maintenance
- 4.2.2. weekly maintenance
- 4.2.3. monthly maintenance
- 4.2.4. annual maintenance

4.3. Advanced maintenance

- 4.3.1. Replacing the spindle belt
- 4.3.2. Greasing the leadscrews
- 4.3.3. How to open the electronics drawer

Chapter 5 – Troubleshooting

5.1. The machine does not initialize

5.2. The spindle does not rotate

5.3. The engraving results are poor

5.4. No connection between machine and computer

5.5. The engraved data are not correctly positioned on the plate

---

Chapter 6 – Options

- 7.1. Quick lock vise
- 7.2. Jigs for the quick lock vise
- 7.3. Output signal for switching on and off an external device at the beginning and the end of a job

Appendices

A. Thesaurus: a glossary with specific terms about computerized engraving as being used in this manual.

B. G-code and M-code protocol for the Cyborg controller.

From:
https://manuals.cyborg-engravers.com/ - **cyborg-engravers**

Permanent link:
https://manuals.cyborg-engravers.com/doku.php?id=en:x200:table_of_contents&rev=1745397446

Last update: **2025/04/23 10:37**