

Cyborg X-300 Desktop Engraver - Table of Contents

Introduction

- [General introduction - 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 and setting up 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 "Auto centre vise"
- 3.2.4. Using the optional "Vacuum table"

3.3. Setting up a tool

- 3.3.1. How to use the 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. Setting the engraving depth

- 3.4.1. Calibrating and using the depth regulator nose
 - [3.4.1.1. Calibrating the depth regulator nose and the calibration stand](#)
 - [3.4.1.2. Using the depth regulator nose](#)
 - in combination with Auto Z control
 - without Auto Z control
- [3.4.2. Use of the spindle pressure spring](#)
 - 3.4.3.1. Locking the pressure spring for engraving without depth regulator nose
 - 3.4.3.2. Auto plate surfacing with unlocked spring and engraving with locked spring
 - 3.4.3.3. Surface mapping with unlocked spring and engraving uneven surfaces with locked spring

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](#)
- 3.6.3. [Choosing Z modes](#)

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. [Tensioning the timing belts](#)
- 4.3.3. [Removing the machine covers](#)

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

Chapter 6 - Options

- 7.1. Vacuum converter
 - 7.2. Self centering vise
 - 7.3. Jigs for the clamping vise
 - 7.4. Output signal for switching on and off an external device at the beginning and the end of a job
 - 7.5. Output signal for switching on and off an external device at every spindle up/down move
-

Appendices

A. Thesaurus: a glossary with specific terms about all things 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:x300:table_of_contents

Last update: **2023/05/17 10:05**

