USB Floppy Emulator for Okuma

PACKAGE CONTENTS
Floppy to USB Conversion Unit
Formatted USB Drive
User Manual

FEATURES

- Uses ordinary USB stick as the medium for transfer design.
- Same size and interface as floppy drive unit, easy to install.
- Connects through floppy drive interface, no need to modify system settings.
- 1.44Mb/720 Kb built-in flash memory used for conversion of file system between USB stick drive and format of floppy disk.
- All files in root directory and 99 folders can be searched.

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Installation

1.   Power off machine completely; main disconnect on the machine needs to be turned off. Follow all lockout/tagout procedures per OSHA standards.
2.   Open the control unit to access the floppy drive connections and mounting hardware.

Figure 1

3.   Remove the two connectors to the floppy drive unit shown in Figure 2.
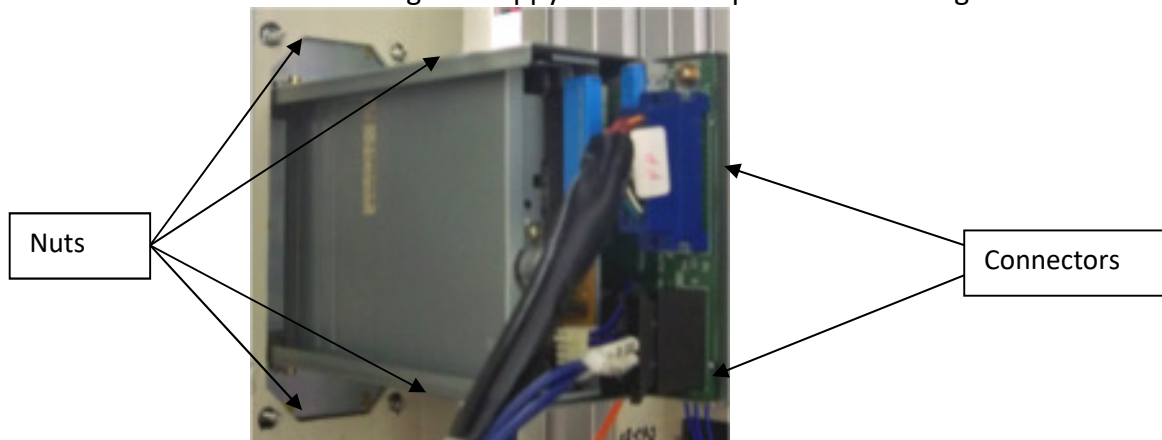4.   Remove the four nuts holding the floppy drive unit in place shown in Figure 2.

Figure 2

5.   Remove entire floppy drive unit from the control panel.

Shop Floor Automations, Inc.
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6.   Remove screws from the sides of floppy drive casing.

Figure 3

7.   Remove ribbon cable and power connector from the floppy drive.

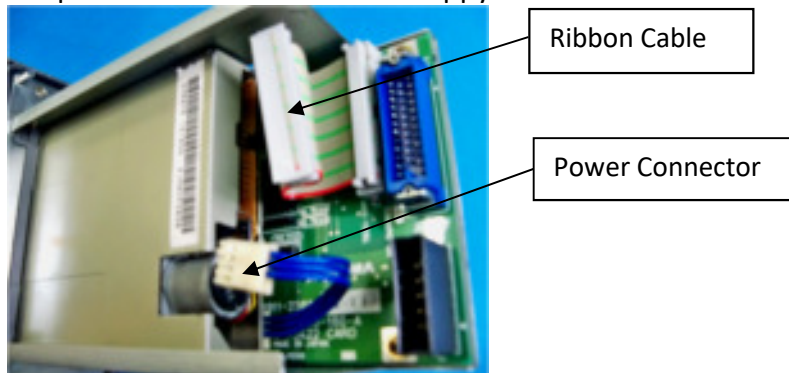Ribbon Cable

Power Connector

Figure 4

8.   Connect ribbon cable and power connector to it.

Figure 5

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9.   Attach the metal casing to floppy to USB conversion unit using the provided screws.

Figure 6

10.   Make sure power to the machine is off.

11.   Install floppy to USB conversion unit in existing space, using original mounting nuts (make sure orientation is as shown below).

Figure 7

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12. Connect interface connector and power connector to the Okuma interface board as shown in Figure 8.

Interface Connector

Power Connector
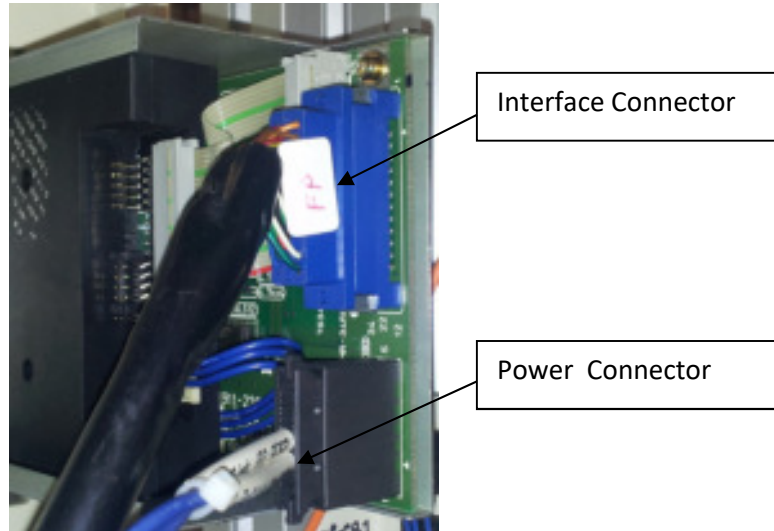
Figure 8

13. Insert provided USB drive and refer to operating instructions.

Figure 9

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USB Floppy Emulator:
Operating Instructions

1.   Insert included USB drive into Floppy to USB conversion unit. If using a new USB drive, it must be formatted with "USB-floppy-format-tool" prior to use. *

2.   FD No. LED will display "00." Use buttons to select a "floppy disk" (00-99). ** Button # 1 increments the tens digit, and button # 2 increments ones digit. "00" is the root directory.

Figure 1

3.   Read and write operation performs the same as it did with the old floppy drive.

CAUTION: Wait until the green light on the floppy to USB conversion unit is off before removing the USB drive or data will be lost!

    *   The retrofit kit comes with a pre-formatted USB drive. To format additional USB drives, refer to Software Manual.

**   Each partition = (1) 1.44MB floppy disk.

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Software Manual

Installation

1. Connect a USB drive to computer.
2. On the computer, click on start then click on "My Computer."
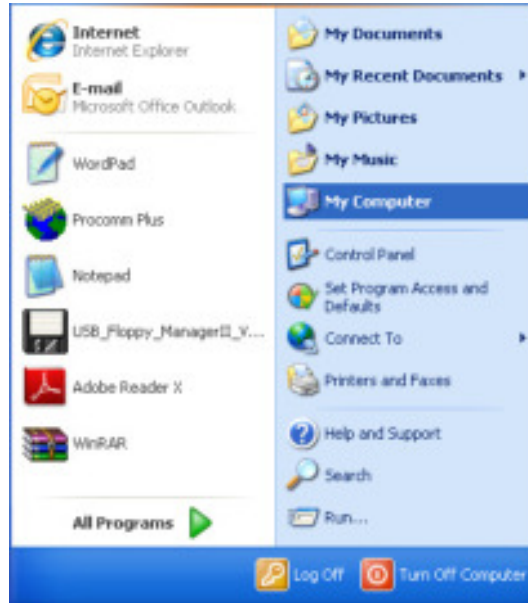
Figure 1

3. Find USB drive and double-click to open.

Figure 2

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4.   A new window will appear. Double-click on Floppy Emulator installation file.

Figure 3

5.   On the new dialogue box "Setup-Floppy Emulator," click "Next" to install Floppy Emulator 1.31T on the computer.
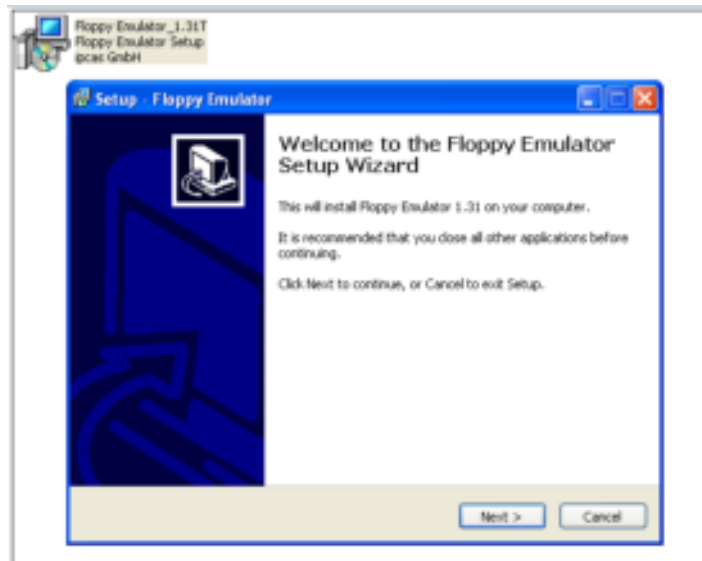

Figure 4

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6. Select a location to install Floppy Emulator or keep default location. Click "Next."
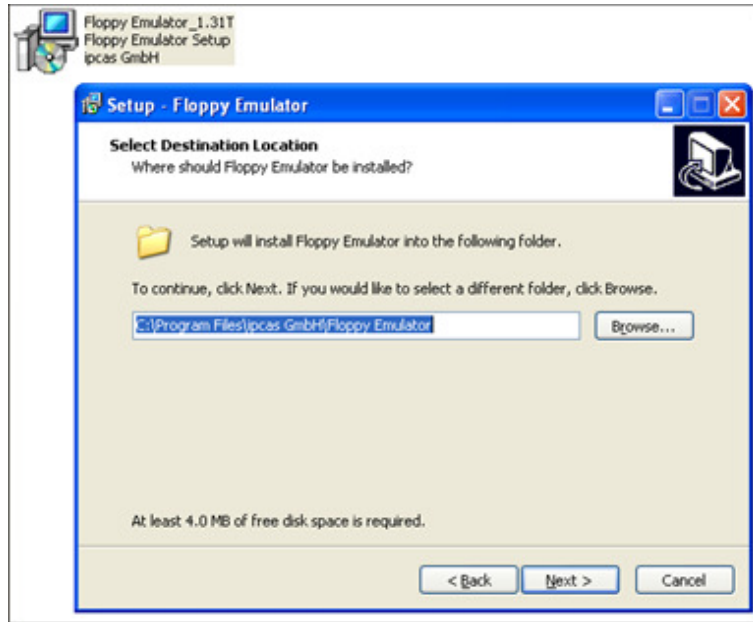
Figure 5

7. Verify settings and click "Install."

Figure 6

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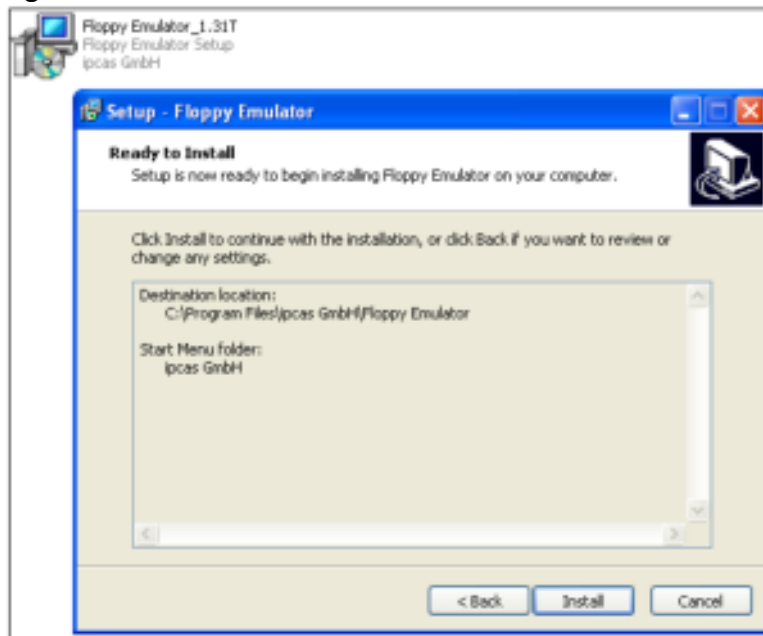
8. Click "Finish" to exit Setup. USB_Floppy_Manager II_V1.31T is now installed.
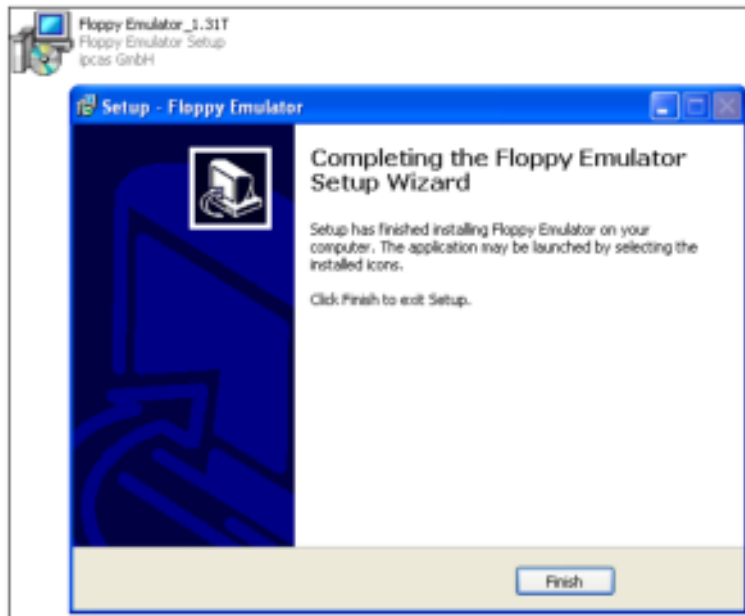
Figure 7

Formatting USB Drive

1.	Click on the Windows "Start" button, and then right click on the "USB_Floppy_ManagerII_V1.31T" file and choose "Run as administrator." If option doesn't appear, click on "Properties," then go to the "Compatibility" tab and click on the "Run this program as an administrator" option.
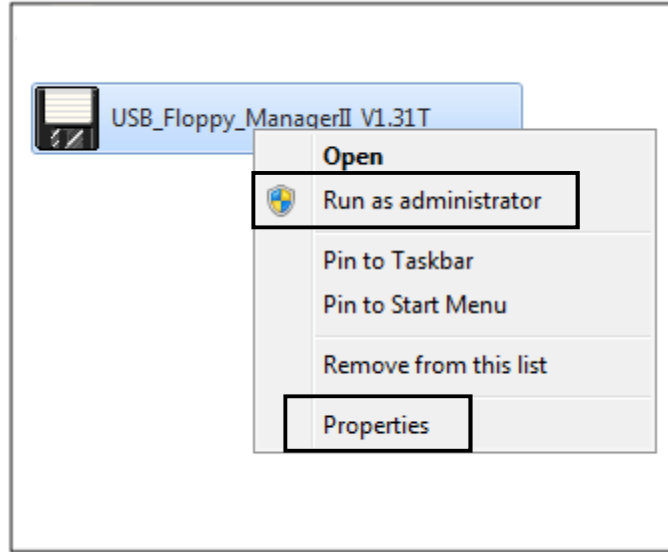
Figure 1

2. Click on the Windows "Start" button again and open "USB_Floppy_Manager II_V1.31T" to format USB drive. The following window will open up.

Figure 2

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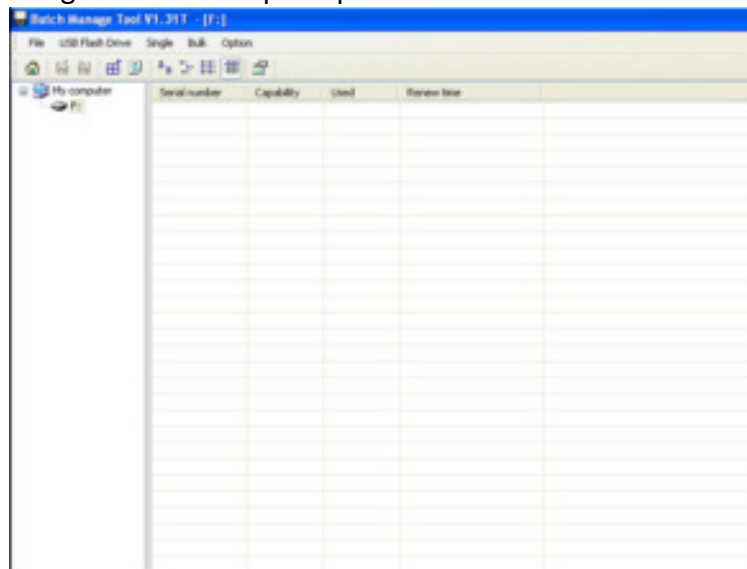
3. Click "USB Flash Drive" at the top left corner of the window and select "Format."
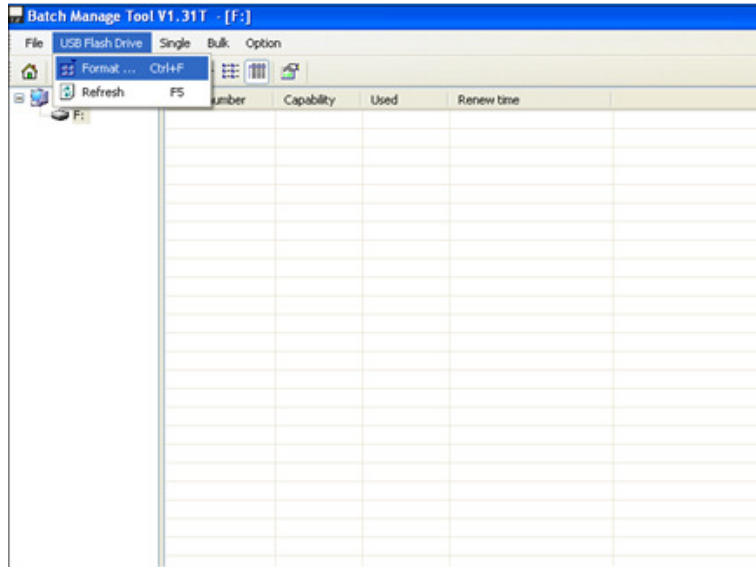
Figure 3

4. On the new dialogue box, select floppy format "1.44M." Set "The number of floppy disks" to create to "100." Make sure "Quick Format" is not selected. Click "Begin to Format."
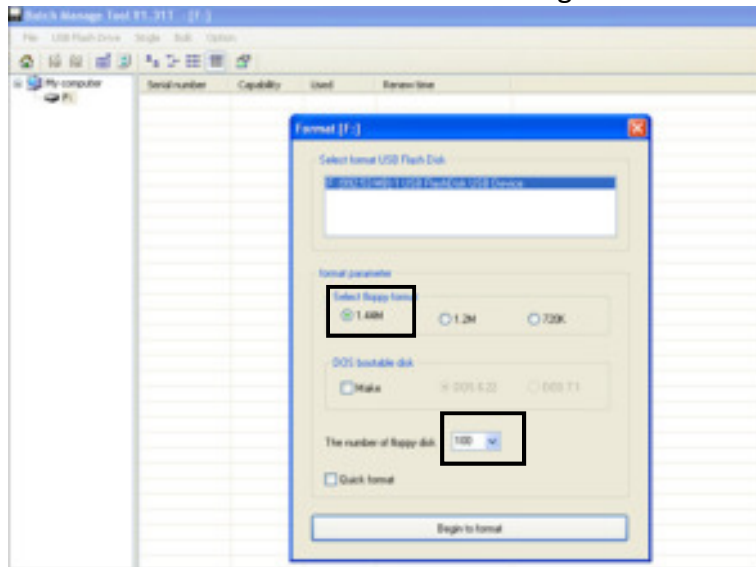

Figure 4

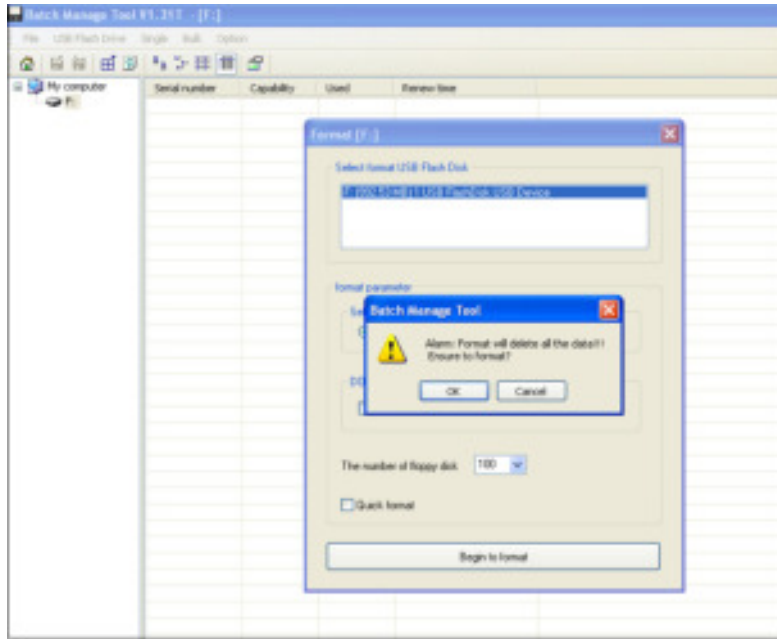5. A pop-up will warn that the format will erase all data from the drive. Select "OK."

Figure 5

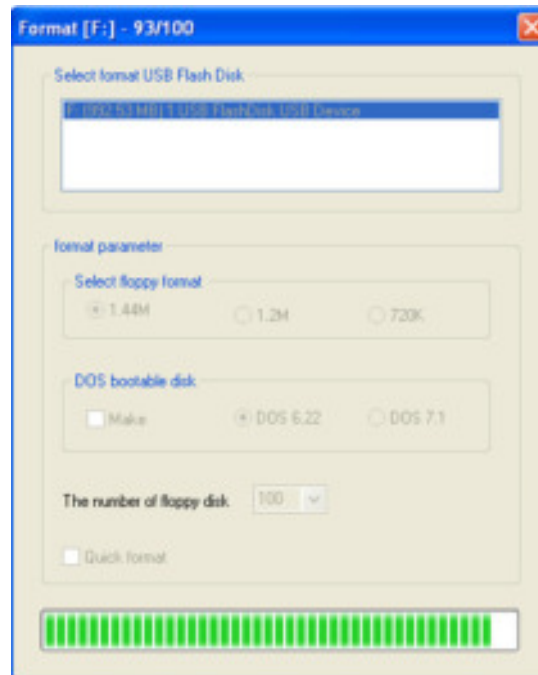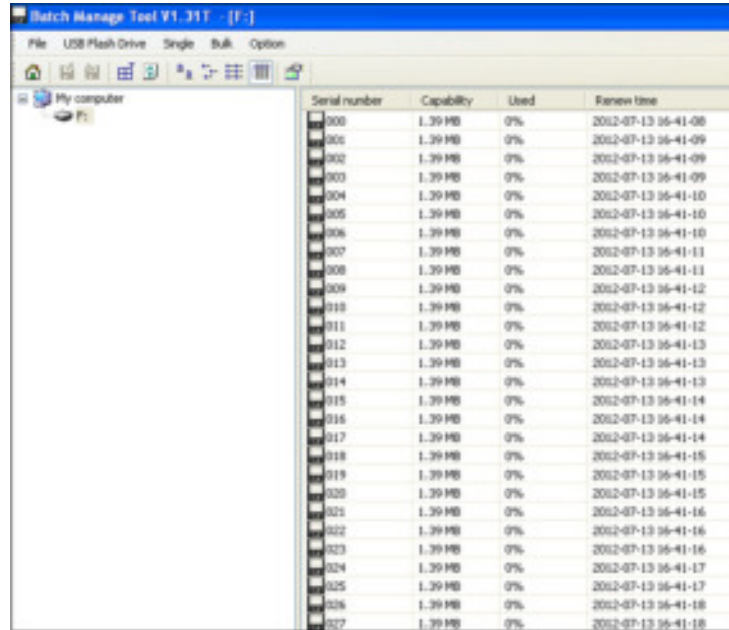6. The USB drive will be formatted. Do not remove until formatting is complete.

Figure 6

7. Click "OK" when the formatting is complete. The 100 floppy disk blocks will be displayed on the screen as shown in Figure 6.

Figure 7

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Saving and Deleting Data from Floppy Emulator

1.   Open "USB_Floppy_Manager" software.
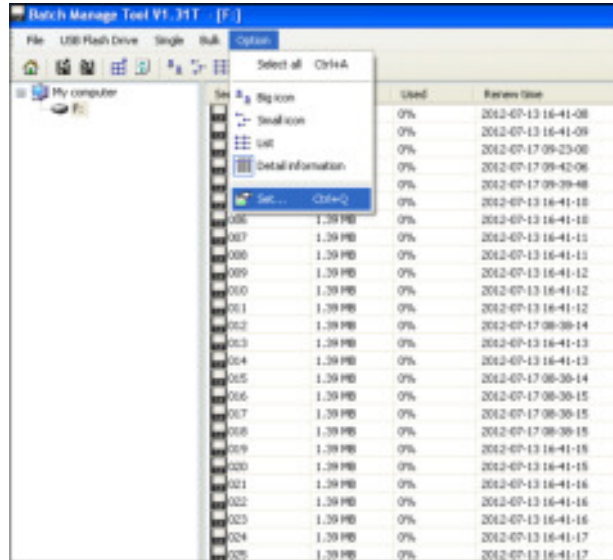2.   Go to "Options" and select "Set."

Figure 1

3.   A new dialogue box "Set" will pop-up. Select the destination where the floppy disk folders will be created. Choose Desktop. A new folder will be created at the chosen destination. Make sure the marked options in Figure 2 are checked, then click OK.
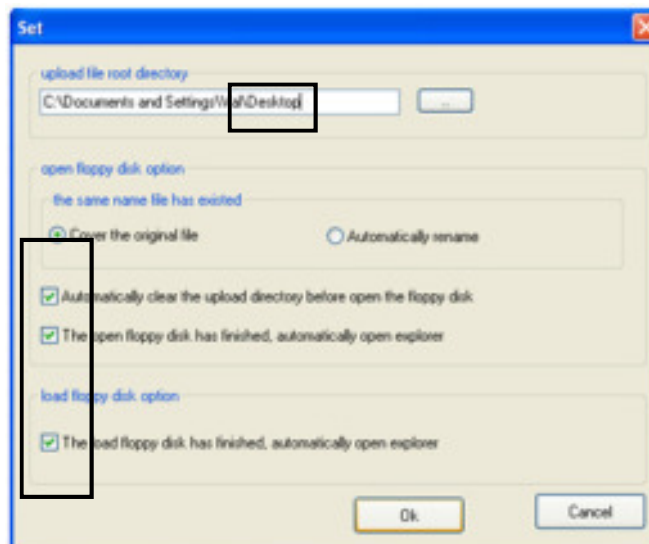

Figure 2

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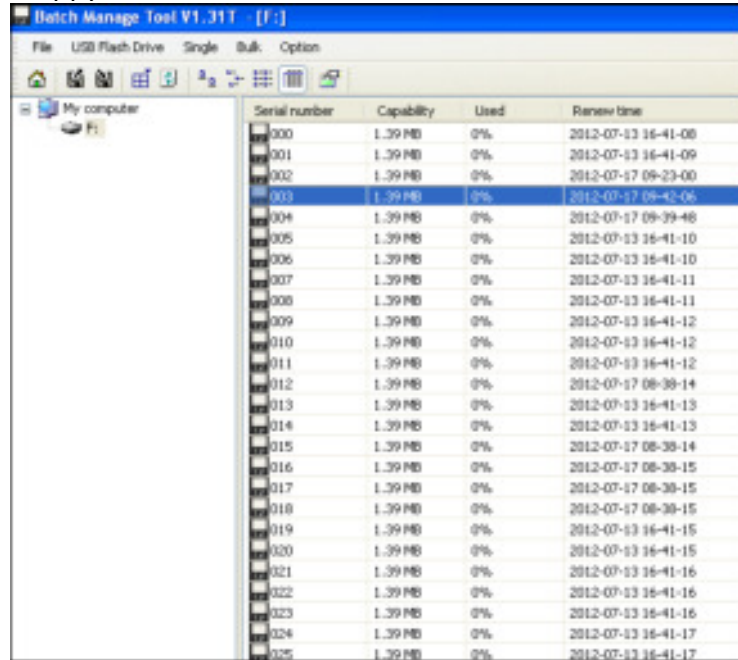4.   Double-click the floppy disk block to save to.

Figure 3

5.   A new folder with the corresponding block name will open up. Files already on the floppy disk will be shown in the folder. Copy and paste the files to the desired floppy disk.
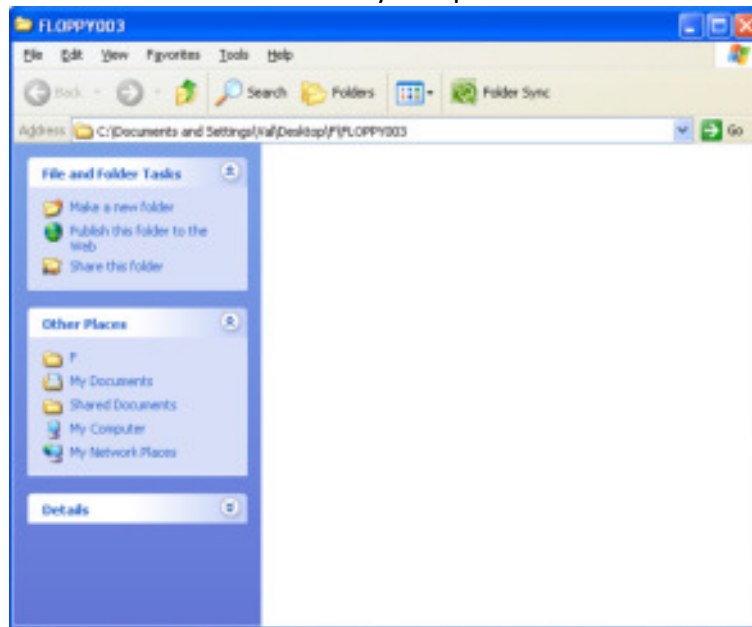   *Note: floppy disk 000 can be accessed from any computer without the software.

Figure 4

6.	Go back to "USB to Floppy Manager" window and click on "Download Floppy Disk Block." The files will then be saved to the selected floppy disk. Notice the percentage change in used space.
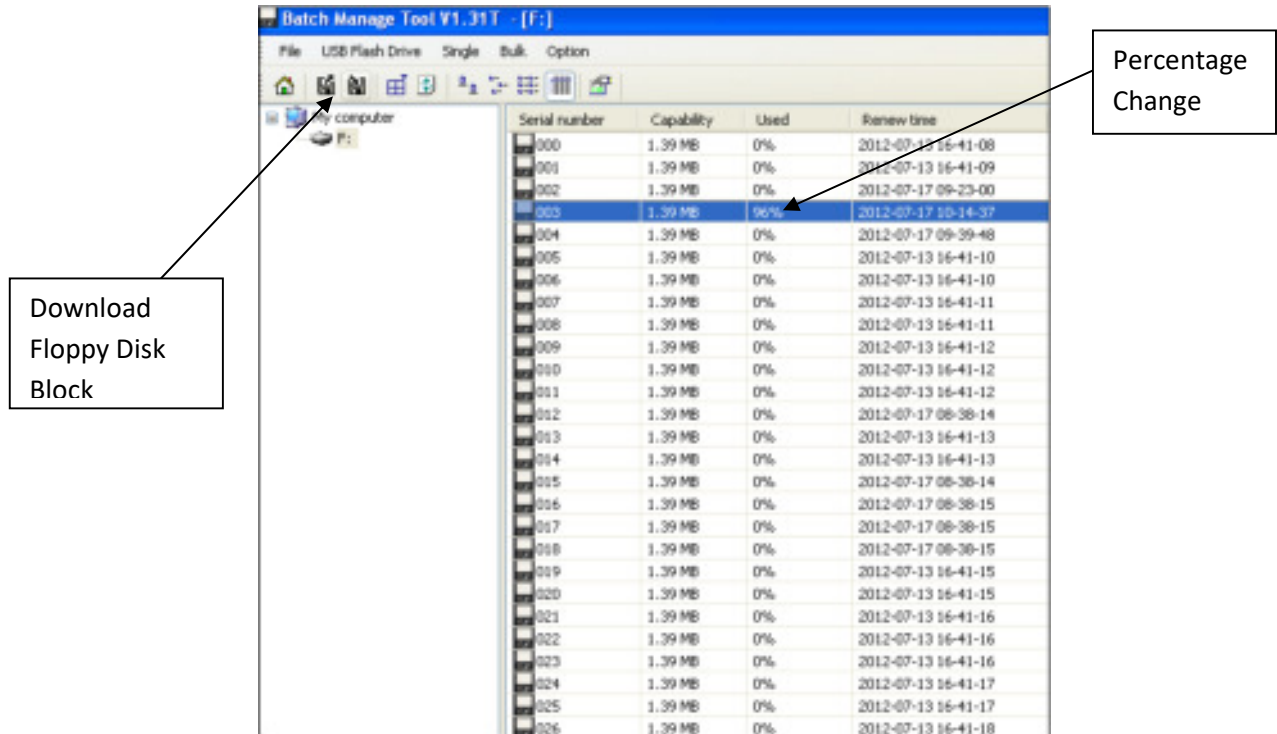

Figure 5

7.	To delete a file from the floppy disk block, double-click on the block. Delete any files, and then go back
to "USB to Floppy Manager" window and click on "Download Floppy Disk Block."

8.	To edit multiple floppy disks at the same time use the "Bulk" menu. Hold "Ctrl" while clicking to select multiple floppy disks. To select all press "Ctrl + A." Once multiple floppy disks are selected, click "Bulk" and select "Bulk Open." Once files are copied to appropriate folders select "Bulk Save."

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