Kodak

Magnus 400 Controller for Magnus 400 II and Magnus 400 II Quantum

Platesetters

Version 1.05.394

Cold Start Software Installation Guide

English

731-01206A-EN Rev A

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Overview

This guide describes how to back up all files and parameters and restore the Kodak® Magnus™ 400 II Controller software (including the Kodak Xpo™ for Magnus 400 II software, where applicable) in the following circumstances:

- After an unrecoverable system disk failure
- When the system disk has been replaced or upgraded
- When setting up the system after a factory cold start installation

  Note: It is not necessary to perform a cold start installation when a customer upgrades the Magnus 400 Controller software.
- When a backup is not available or is corrupt or otherwise damaged
- When the system exhibits unpredictable behavior—for example, error messages suddenly appear or the Magnus 400 Controller software stop responding

The Magnus 400 Controller platesetter configurations include backup disks, which enable you to quickly back up and restore all operating system files in one step. For more information, see *Backing Up and Restoring the Software* on page 2.

Note: Always use the backup disks for backing up and restoring the operating system files. However, if one or more of the backup disks is damaged, you can use the conventional method to back up and restore files. See *Saving the Registry and Database Files* on page 13 and *Restoring the Registry and Database Files* on page 27.

Backing Up and Restoring the Software

Attention: Before performing the backup and restore procedures, select the computer configuration that you want to use when restoring the system.

Note: In general, the following procedures relate to both the Magnus 400 II and Magnus 400 II Quantum configurations and platesetters. When a step is common to both configuration/platesetter types, it will be referred to as the Magnus 400 II configuration/platesetter. When a specific configuration is indicated, that configuration will appear.

Backing Up the Kodak System Partition C Files

Important: You must back up the Kodak system partition C files after you configure the Magnus 400 II system.

You can back up the Kodak system partition at any time. When you back up the Kodak system partition, the Symantec® Norton Ghost™ software copies the files on partition C to a CD.

To back up the Kodak system partition C files:

1. Make sure that you have at least three blank CDs on which you can copy the operating system files.
2. Label the CDs with the current date and the order in which they will be created. For example: CD #1 (Oct 17, 2007), CD #2 (Oct 17, 2007), CD #3 (Oct 17, 2007), and so on.
3. Shut down the platesetter and computer.
4. Insert Backup Partition C disk #1 into the disk drive.
5. Turn on the platesetter and restart the computer.
6. When the PC DOS 7.1 startup menu appears, use the keyboard arrows to select **2. Back up partition C: only**, and press ENTER.
7. Remove Backup Partition C disk #1 from the disk drive and insert Backup Partition C disk #2 into the disk drive.
8. Press any key to continue.
9. Wait a few moments for the Norton Ghost software to start. When a `Please insert a blank CD into the CD-ROM drive` message appears, insert the first blank CD (labeled CD #1) into the CD-ROM drive, and click **OK**.

   The Norton Ghost software copies the files from partition C to the CD. The process takes approximately 20 minutes.
10. When a `Insert next CD/DVD disk` message appears and the CD LED light stops flashing, remove CD #1, insert the next CD (labeled CD #2) into the CD-ROM drive, and click **OK**.

11. Continue to insert CDs (in the order that you labeled them) when prompted, until the backup is complete.

    After the Norton Ghost software finishes copying the files, remove the disk and restart your computer.

12. Remove Backup Partition C disk #2 from the disk drive, remove the last CD from the CD-ROM drive, and press CTRL+ALT+DEL to restart the computer.

13. Store the partition C backup CDs in a secure location.

Restoring the Kodak System Partition C Files

Use the Kodak system partition C files backup disks for this procedure.

Note: If a backup is not available or is corrupt or otherwise damaged, you must perform a cold start installation from scratch. See *Performing a Cold Start Software Installation From the Beginning* on page 11.

To restore the Kodak system partition C files:

1. Shut down the platesetter and computer.
2. Insert Backup Partition C disk #1 into the disk drive.
3. Turn on the platesetter and restart the computer.
4. When the PC DOS 7.1 startup menu appears, use the keyboard arrows to select **1. Load sys on C: Backup registry and Database before loading sys**, and press ENTER.
5. Remove Backup Partition C disk #1 from the disk drive and insert Backup Partition C disk #2 into the disk drive.
6. Press any key to continue.
7. Wait a few moments for the Norton Ghost software to start. When a `No CD disk in drive` message appears, insert the first CD (labeled CD #1) into the CD-ROM drive, and click **Retry**.

   The Norton Ghost software copies the files from the CD to partition C. The process takes approximately 12 minutes.

8. When the following message appears and the CD LED light stops flashing, remove CD #1, insert the next CD (labeled CD #2) into the CD-ROM drive, and click **OK.**

   ```
   Symantec Ghost needs to open the next part of the image.
   Please either insert the next disk and choose OK, or choose
   browse to select the next part of the image.
   ```

9. Continue to insert CDs (in the labeled order) when prompted, until the partition-C file restoration is complete.

   After the Norton Ghost software finishes copying the files, remove the disk from the drive and restart your computer.

10. Remove Backup Partition C disk #2 from the disk drive, remove the last CD from the CD-ROM drive, and press CTRL+ALT+DEL to restart the computer.

Verifying Firmware Versions

Note: To use Service Shell 3.5, you must insert a service dongle.

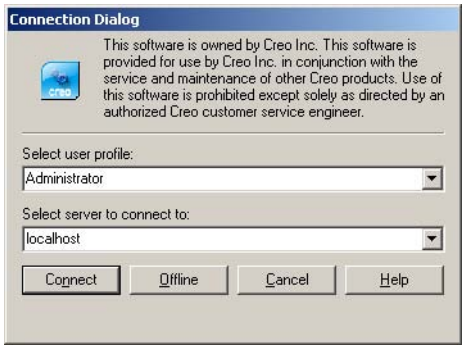
The Magnus 400 Controller platesetters are delivered to the customer with firmware application files preconfigured on the LMCE/TMCE board. The following procedure describes how to verify that the correct versions are loaded for the correct configuration. If you do not have the correct firmware versions installed, see *Installing Firmware Version Files* on page 5.



1. On the Microsoft® Windows® desktop, double-click the **Service Shell Client** icon.

   The Connection Dialog dialog box appears.

   Note: If a backup is not available or is corrupt or otherwise damaged, you must perform a cold start installation from the beginning. See *Performing a Cold Start Software Installation From the Beginning* on page 11.



2. Click **Connect**.

   The Service Shell workspace appears.

3. On the left panel in the Service Shell workspace, click **Device Monitor**.

4. At the command prompt, type: `fw dir`

   - For platesetters with a laser diode array (LDA) head (LMCE firmware), the following application versions should appear:
     - `MCE_MAIN: 1.04.01`
     - `MCE_LCA: 70.89`
     - `MCE_BOOT: 1.16.01`
     - `MCE_POST: 1.06`

- For platesetters with a thermal 2 imaging head (TMCE firmware), the following application versions should appear:
  - `MCE_MAIN: 1.40.02`
  - `MCE_LCA: 2.28`
  - `MCE_BOOT: 1.16.1`
  - `MCE_POST: 1.06`
  - `TH2: 1.05d Release`

  Note: To view the thermal 2 imaging head file, at the command prompt, type `th2 "ver.`

Installing Firmware Version Files

Attention: Perform this procedure only if you have replaced the MCE board with another board that does not include the MCE file configurations.

To determine if the MCE board contains the necessary MCE files:

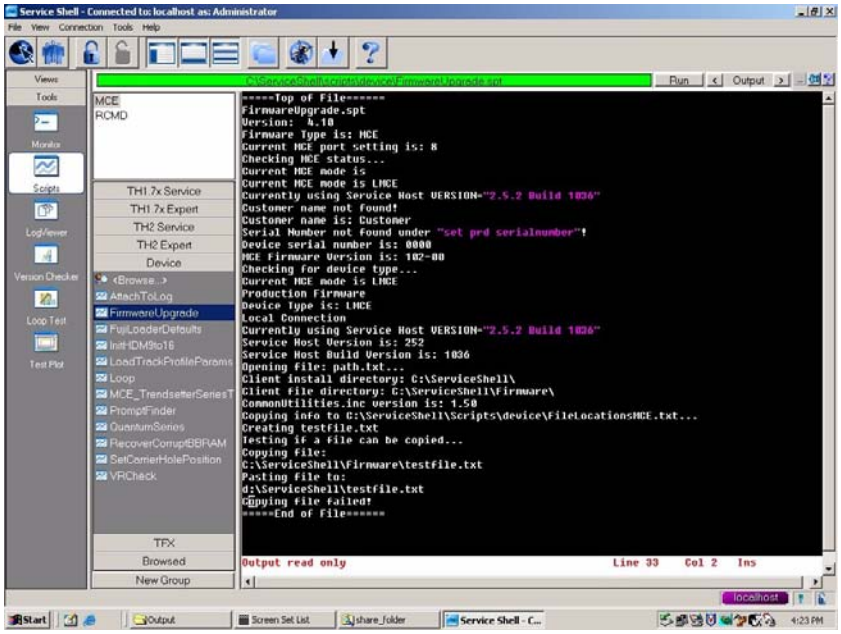
1. On the left panel in the Service Shell workspace, click the **Device Monitor** tool.
2. If `Quantum Eng>>` appears in the main panel, you must install the firmware MCE files.

The Magnus 400 Controller platesetter is delivered to the site preconfigured according to customer requirements. This procedure describes how to install the firmware MCE files when a fresh installation of the Windows operating system is required.

Important: When installing the files for the first time, you must load them in the correct order.

To install the firmware files:

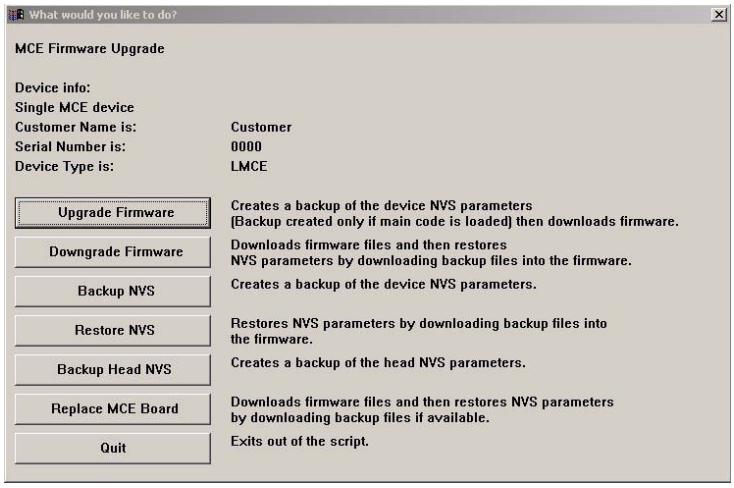
1. On the Windows desktop, click the **Service Shell Client** icon to display the Service Shell workspace.



2. On the left panel in the Service Shell workspace, select **Tools > Scripts > Device**, and double-click **Firmware Upgrade**.

3. When the `Do you want to run the following script?` message appears, click **Yes**.

   After a few moments, the MCE Firmware Upgrade dialog box appears.

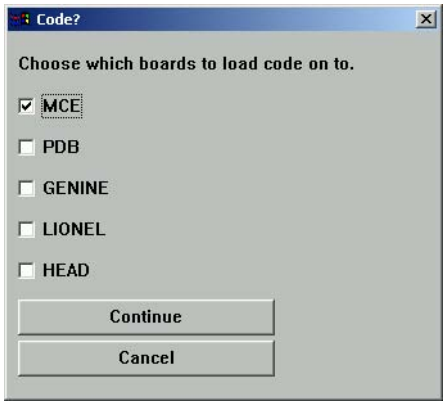


4. For platesetters with an LDA head, perform the following steps:

   Note: For platesetters with a thermal 2 imaging head, go to step 5.

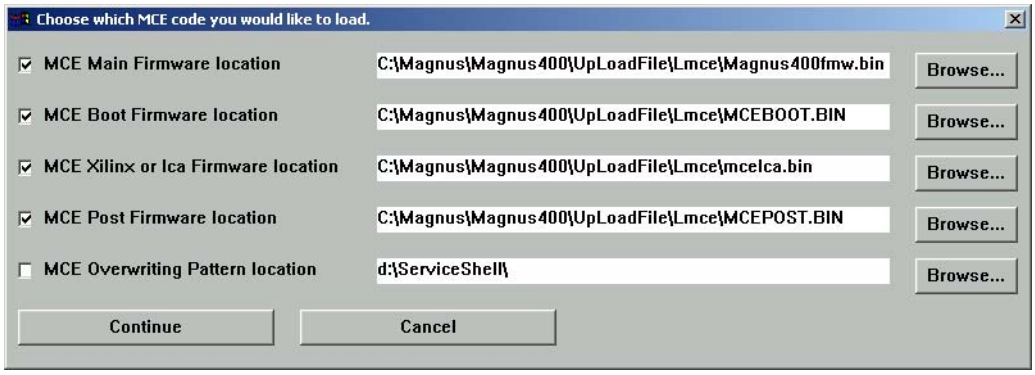
   a. Click **Upgrade Firmware**.

      The Code? dialog box appears.



   b. Select **MCE** and click **Continue**.

      The Choose which MCE code you would like to load dialog box appears.



   c. Select the first four check boxes only:

      - **MCE Main Firmware location**: Click **Browse** to locate and select the **Magnus400fmw.bin** file.
      - **MCE Boot Firmware location**: Click **Browse** to locate and select the **MCEBOOT.bin** file.
      - **MCE Xilinx or Ica Firmware location**: Click **Browse** to locate and select the **mcelca.bin** file.
      - **MCE Post Firmware location**: Click **Browse** to locate and select the **MCEPOST.bin** file.

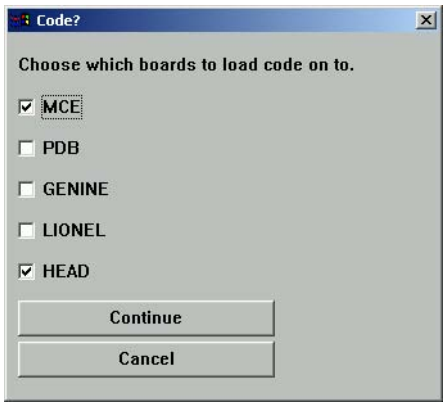
   d. Click **Continue**.

      The files are copied to **C:\Magnus\Magnus400\UploadFile\Lmce** and the MCE Firmware Upgrade dialog box appears.

   e. Go to step **6**.

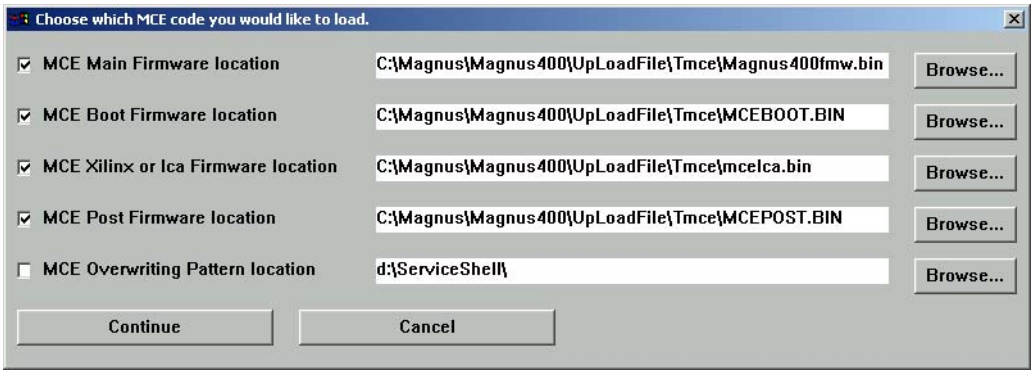
5. For platesetters with a thermal 2 imaging head:
   a. Click **Upgrade Firmware**.

      The Code? dialog box appears.



   b. Select the **MCE** and **HEAD** check boxes, and click **Continue**.

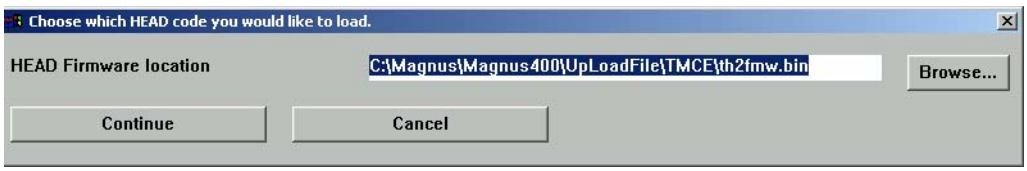
      The Choose which MCE code you would like to load dialog box appears.



   c. Select the first four check boxes only:
      - **MCE Main Firmware location**: Click **Browse** to locate and select the **Magnus400fmw.bin** file.
      - **MCE Boot Firmware location**: Click **Browse** to locate and select the **MCEBOOT.bin** file.
      - **MCE Xilinx or Ica Firmware location**: Click **Browse** to locate and select the **mcelca.bin** file.
      - **MCE Post Firmware location**: Click **Browse** to locate and select the **MCEPOST.bin** file.

   d. Click **Continue**.

      The files are copied to **C:\Magnus\Magnus400\UploadFile\Tmce** and the Choose which HEAD code you would like to load dialog box appears.



e. Click **Browse** to locate and select the **th2fmw.bin** file.

f. Click **Continue**.

The file is copied to **C:\Magnus\Magnus400\UploadFile\Tmce** and the MCE Firmware Upgrade dialog box appears.

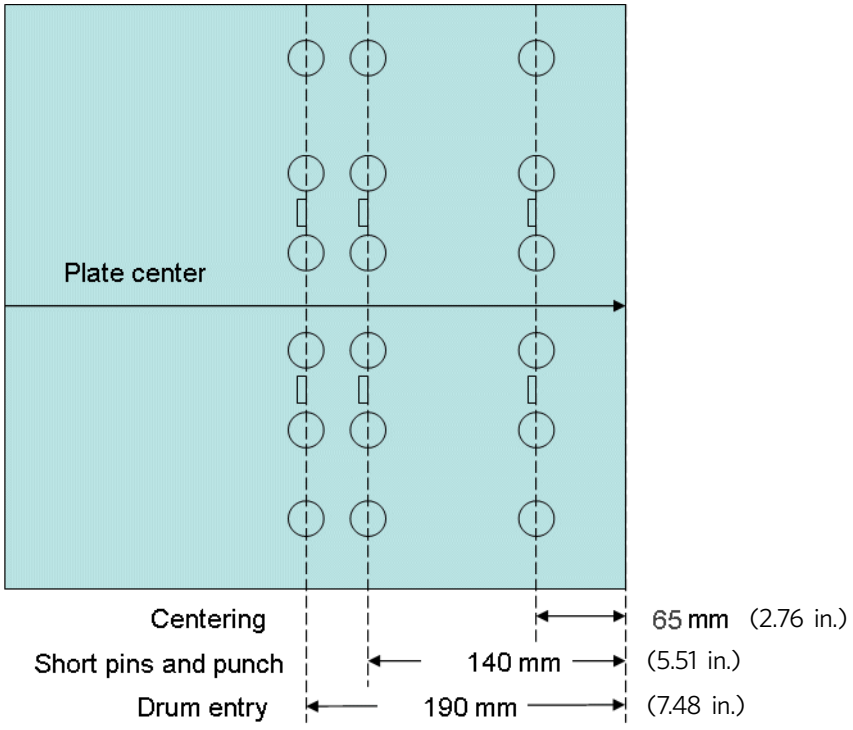
6. Click **Quit**.
7. On the left panel in the Service Shell workspace, click **Device Monitor**.
8. At the command prompt, type `fw dir` and press ENTER.
9. Verify that the following firmware versions appear:
   - For platesetters with an LDA head (LMCE firmware):
     - `MCE_MAIN: 1.04.01`
     - `MCE_LCA: 70.89`
     - `MCE_BOOT: 1.16.01`
     - `MCE_POST: 1.06`
   - For platesetters with a thermal 2 imaging head (TMCE firmware):
     - `MCE_MAIN: 1.40.02`
     - `MCE_LCA: 2.28`
     - `MCE_BOOT: 1.16.1`
     - `MCE_POST: 1.06`
     - `TH2: 1.05d Release`

     Note: To view the thermal 2 imaging head file, at the command prompt, type `th2 "ver.`
10. Quit the Service Shell workspace and start the Magnus 400 Controller software.
11. Restore the database, and then manually enter all the non-default values that you previously wrote down, but not the multi-cassette unit (MCU) loading parameters (leave these values as default).
    - During the Magnus 400 Controller software installation, a **Kodak** folder is automatically created (in addition to the **Creo** folder). When you restore the database, the log files still appear in the **Creo** folder. Copy the log files to the **Kodak** folder.
    - The MCU loading parameters are automatically set to their default values after installing the Magnus 400 Controller 1.05.394 software. Minor fine-tuning adjustments might be required.

      Note: For a detailed list of the MCU loading parameters, see the MCU II for Magnus 400 II and Magnus 400 II Quantum Platesetters, Version 1.05.394, Plate Loading Sequence and Parameters Guide (731-01239A).

12. On platesetters with MCU, adjust the plate-picking positions according to the following diagram.

    Note: For more information about plate-picking positions, see the MCU II for Magnus 400 II and Magnus 400 II Quantum Platesetters, Version 1.05.394, Plate Loading Sequence and Parameters Guide (731-01239A).



13. In the Magnus 400 Controller software, send a file to expose and check the quality on the plate.

Performing a Cold Start Software Installation From the Beginning

Perform a cold start software installation when a backup is not available or if a backup CD is damaged, or when the operating system or the Magnus 400 Controller software exhibits unpredictable behavior.

Important:

- The factory-set parameters of each new Magnus 400 II and Magnus 400 II Quantum platesetter are saved on the Machine Parameters disk, which is attached to the computer (PC) assembly.
- Frequently back up the platesetter parameters and settings to ensure that any changes to the platesetter parameters are saved.
- The Registry file and **DataBase** folder can be saved on the same disk.
- If the Magnus 400 II or Magnus 400 II Quantum system disk fails or the software is corrupted, you cannot open the platesetter doors or back up the platesetter parameters. If this happens:
  1. To open the doors manually, see Opening Doors and Panels in the relevant *Magnus 400 II* or *Magnus 400 II Quantum Installation Guide*.
  2. Restore the platesetter parameters using the backup disk.

Software Requirements

Before performing a cold start installation, verify that you have the following software:

- Windows 2000 Professional operating system CD (CD image version 1.16, including Service Shell 3.5 RC3)

  Note: To verify the operating system version on your platesetter, select **Start > Run** and type `cd_ver`. The following information should appear:
  `image cd Version: VER 1.16 DATA 26/07/2007`
- Kodak Xpo™ 3.2 software (for Magnus 400 II LDA platesetters)
- LDA2 board
- Magnus 400 Controller software CD and the latest updates
- Magnus 400 II or Magnus 400 II Quantum platesetter Machine Parameters disk

Magnus 400 Controller Cold Start Software Installation Flowchart

The following flowchart describes how to perform a cold start software installation for Magnus 400 II and Magnus 400 II Quantum platesetters.

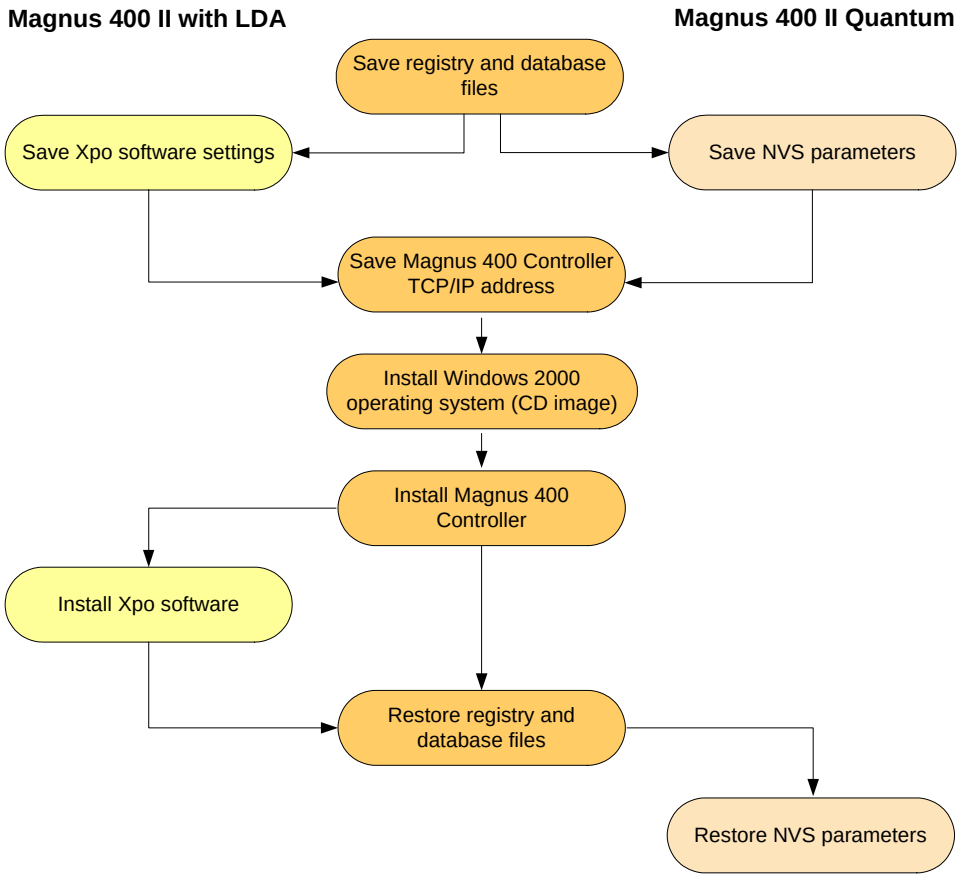


Figure 1: Magnus 400 Controller cold start software installation

Saving the Registry and Database Files

The factory-set parameters of each new Magnus 400 Controller platesetter are saved on the Machine Parameters disk, which is attached to the PC assembly.

Note: Remember to label the disk appropriately before backing up files. Frequently back up the platesetter parameters and settings, in case the system fails.

During a cold start installation, existing parameters are automatically deleted. Therefore, save the following files and parameters in advance, so that you can reload them after the cold start.

Note: You can save the **Registry** file and the **DataBase** folder on the same disk.

- **Registry** file
- **DataBase** folder
- Windows license number
- Magnus 400 Controller platesetter settings
- Magnus 400 Controller TCP/IP address

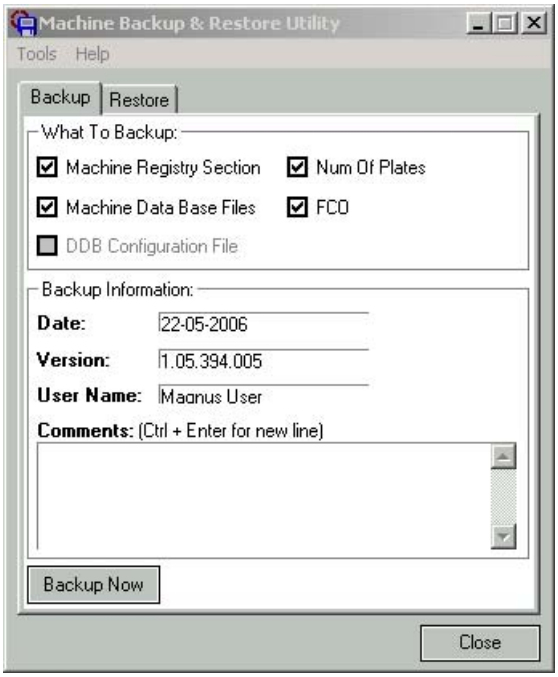
Note: For the Magnus 400 II Quantum platesetters (with thermal 2 imaging heads), in addition to saving the registry and database files, you must also save the nonvolatile storage (NVS) parameters. See *Saving the NVS RAM and MCE NVS Flash Parameters* on page 15.

To save the registry and database files:

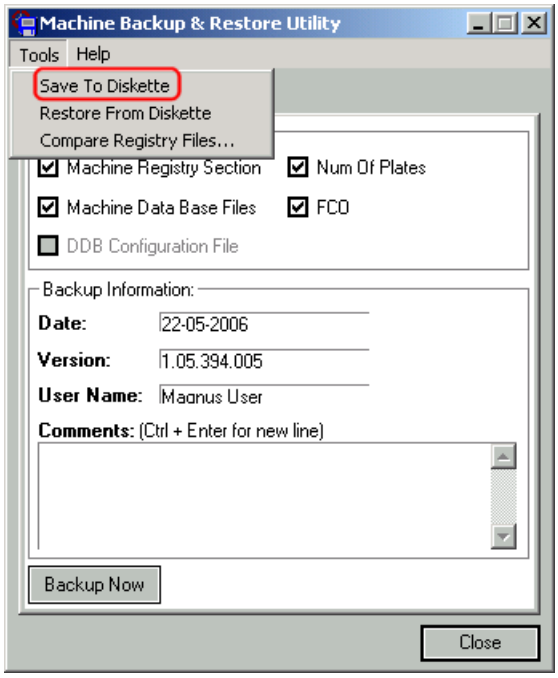


1. Turn on the platesetter and start the Magnus 400 Controller software.
2. Insert a formatted write-enabled disk into the disk drive.
3. On the Windows desktop, double-click the **MachineBackup** icon.

   The Machine Backup & Restore Utility window appears.



4. On the **Backup** tab, verify that the following check boxes are selected:
   - **Machine Registry Section**
   - **Machine Data Base Files**
   - **Num Of Plates**
   - **FCO**
5. In the **Backup Information** area:
   - In the **Version** box, type the software version that is currently installed on the platesetter.
   - In the **User Name** box, type the user name.
   - (Optional) In the **Comments** box, type a short description of the backup files that you are saving. If multiple backups were performed, this information can help you to restore the correct backup.
6. From the **Tools** menu, select **Save To Diskette**.



7. Click **Backup Now**.

   When the Machine Backup & Restore Utility finishes copying the files to the disk, the following message appears:



8. Click **OK**, and click **Close** to quit the Machine Backup & Restore Utility.
9. Remove the disk from the disk drive and store it on the PC assembly.

Saving the Xpo Software Settings

Perform the following procedure *only* on Magnus 400 II platesetters with an LDA head.

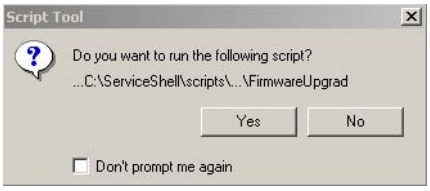
➢ On the Windows desktop, select **Start > Programs > Xpo > Save Settings**.

The Xpo software settings are automatically saved in **E:\dataVolumes\Config_save**.

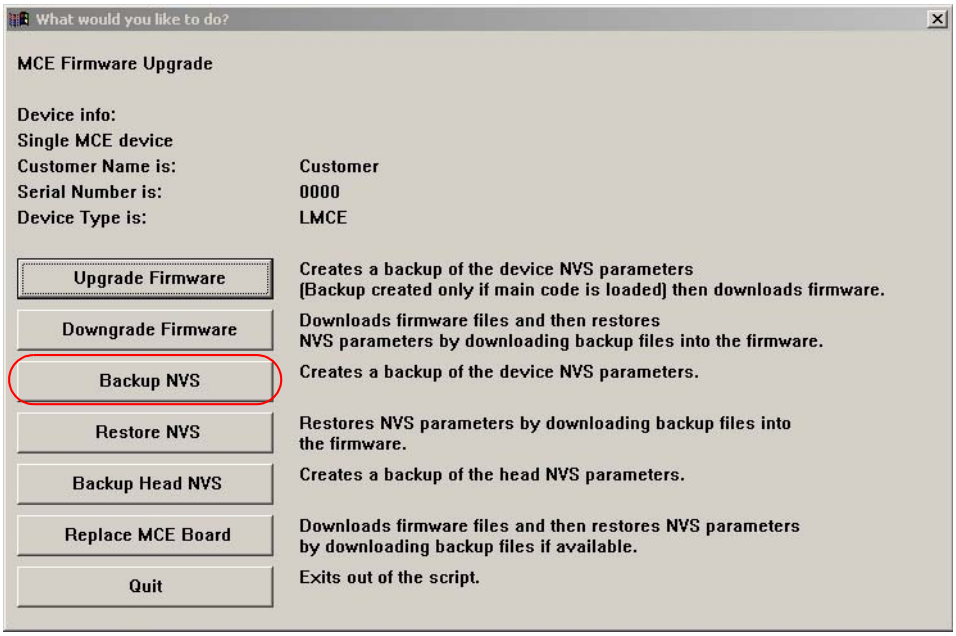
Saving the NVS RAM and MCE NVS Flash Parameters

The NVS RAM and MCE NVS Flash parameters are defined on the MCE board. Save these parameters so that they can be restored if the MCE board is damaged or becomes corrupted.

1. Insert a formatted write-enabled disk into the disk drive.
2. On the left panel in the Service Shell workspace, click the **Scripts** tool .
3. On the middle panel, select **Device**, and double-click **FirmwareUpgrade**. When the following message appears, click **Yes**.



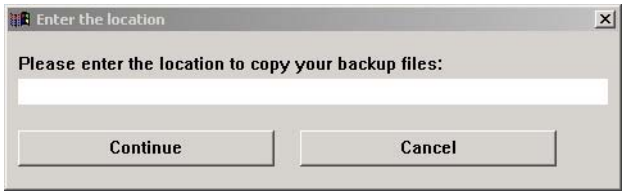
4. Wait a few moments for the MCE Firmware Upgrade dialog box to appear, and click **Backup NVS**.



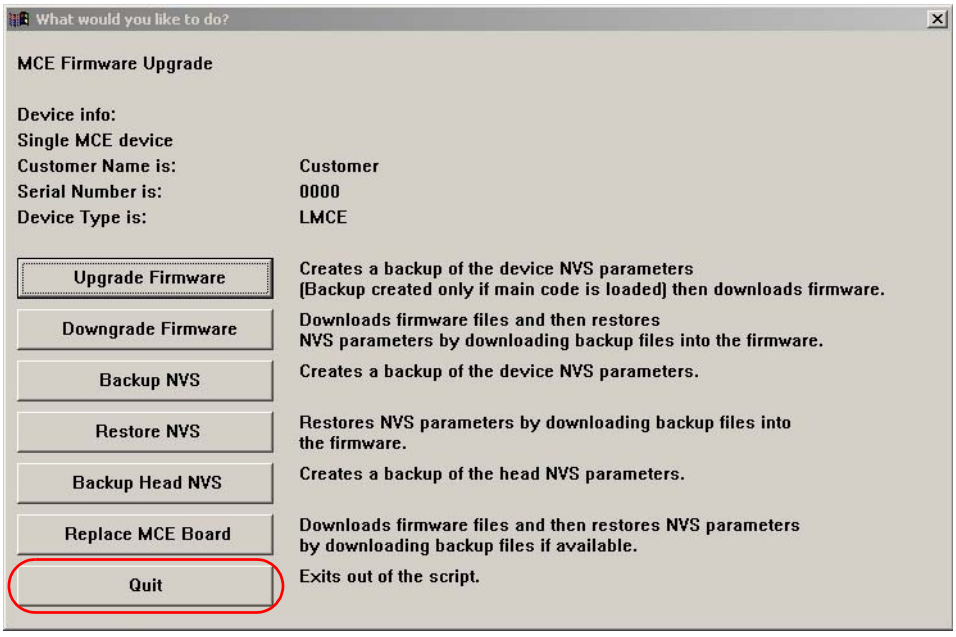
a. In the dialog box, select the **Specify NVS location** check box, and click **Continue**.



b. In the dialog box, type the path to which you want to copy the files, and click **Continue**.



5. After the files are copied, in the MCE Firmware Upgrade dialog box, click **Quit** to return to Monitor view.



Saving the Magnus 400 Controller TCP/IP Address

1. On the Windows desktop, select **Start > Settings > Control Panel**.
2. In the Control Panel window, double-click **Network**.
3. In the Network dialog box, right-click **Local Area Connection**, and click **Properties**.
4. Double-click **Internet Protocol (TCP/IP)**.
5. Write down the IP address.

6. Click **OK** twice, and close the Control Panel window.

Installing the Windows 2000 Professional Operating System

1. Open the rear and right side doors of the platesetter.
2. Turn off the platesetter.
3. Insert the **CD image version 1.16** CD into the CD-ROM drive, and turn on the platesetter.

   The PC DOS 7.1 Startup Menu window appears.
4. Select **1 Load System** and press ENTER.
5. When the `P:\>` prompt appears, remove the operating system CD from the CD-ROM drive, and press CTRL+ALT+DEL to start the Windows operating system.

   The following message appears:



6. Click **Yes**.

   The desktop appears.
7. If you are working on a Magnus 400 Controller platesetter with the Xpo software, you must change the desktop display properties to view the workspace correctly.
   a. On the Windows desktop, select **Start > Settings > Control Panel**.

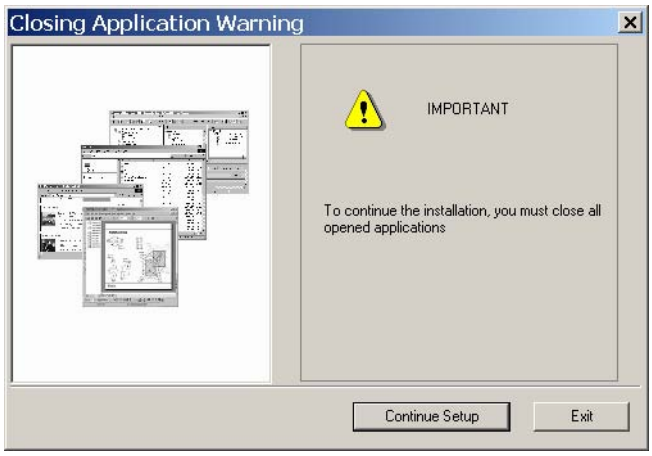
      The Control Panel window appears.
   b. Double-click **Display**.

      The Display Properties dialog box appears.
   c. Click the **Desktop** tab.
   d. Under **Background**, select **wallpaper_PC_1024x768**.
   e. Click the **Settings** tab.
   f. In the **Color quality** list, select **1024x768** or move the **Screen resolution** slider to **1024 by 768 pixels**.
   g. Click **Apply**, and click **OK** to save the settings.
   h. Close the Control Panel window.

8. If you are using a Magnus 400 II Quantum platesetter, you need to adjust the display settings.
   a. On the desktop, right-click, and select **Properties**.
   b. In the Display Properties dialog box, select the **Settings** tab.
   c. Adjust the screen resolution to **800×600**, and click **Apply**.

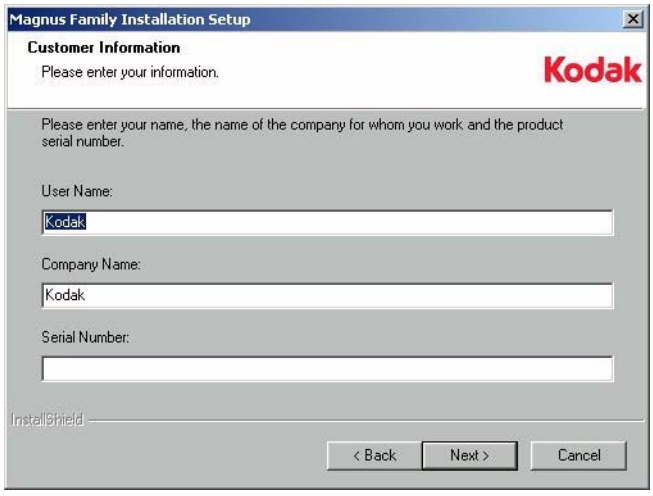
Installing the Software on a Magnus 400 II LDA Platesetter

1. Insert the Magnus 400 Controller software CD into the CD-ROM drive. When the Closing Application Warning dialog box appears, click **Continue Setup**.



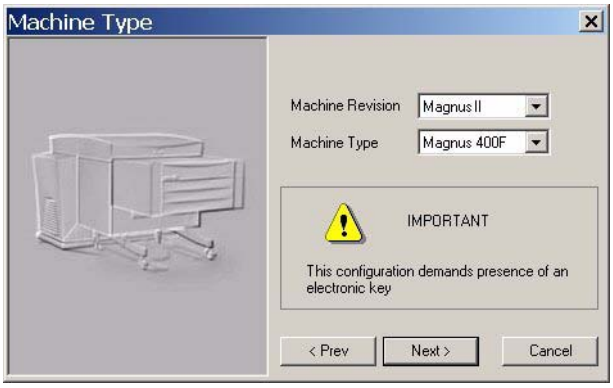
2. When the Magnus Family Installation Setup dialog box appears, click **Next**.

   The Customer Information screen appears.



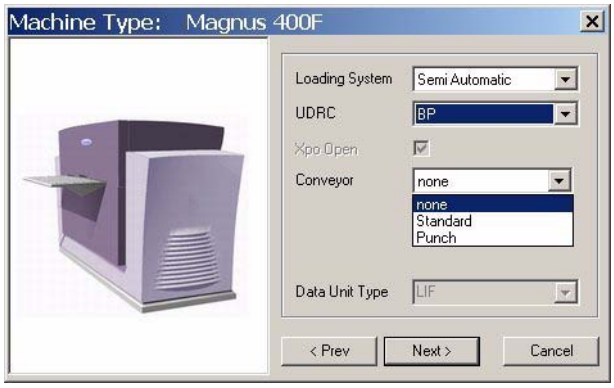
3. Type the following customer information, and click **Next**.
   - User Name: (your user name)
   - Company Name: Kodak (or customer's name)
   - Serial Number: (Magnus 400 II platesetter serial number)

The Machine Type dialog box appears.



4. Perform the following steps, and click **Next**.
   a. In the **Machine Revision** list, select **Magnus II**.
   b. In the **Machine Type** list, select the platesetter that you are installing.

      The Machine Type dialog box is refreshed, and the selected platesetter type appears in the title bar.



5. Perform the following steps:
   a. In the **Loading System** list, select either **Semi Automatic** or **Auto Loader**.
   b. In the **UDRC** list, select either **None**, **BP**, or **Other**.

      Note: If you select BP, verify that the UDRC BP cable and the nozzle vacuum detector and wiring are installed on the platesetter.
   c. The **Xpo Open** check box is predefined and cannot be changed.
   d. In the **Conveyor** list, select either **none**, **Standard**, or **Punch**.
   e. In the **Data Unit Type** list, **LIF** is predefined and cannot be changed.

f. Click **Next**.

A progress indicator appears, and the following message appears:



g. Click **OK**.

The Magnus 400 Controller 1.05.394 software takes a few minutes to load.

After the software is successfully installed, the Reboot screen appears.



6. Select **Yes, I want to restart my computer now.** and click **Finish**.
7. Remove the Magnus 400 Controller software CD from the CD-ROM drive and restart the computer.
8. If you need to install Magnus 400 Controller software updates, perform the following actions:
   a. Start the Magnus 400 Controller software. This enables the software to construct the Hardware tree.
   b. Quit the Magnus 400 Controller software.
   c. Install the updates.

Installing the Xpo Software for Magnus 400 Controller

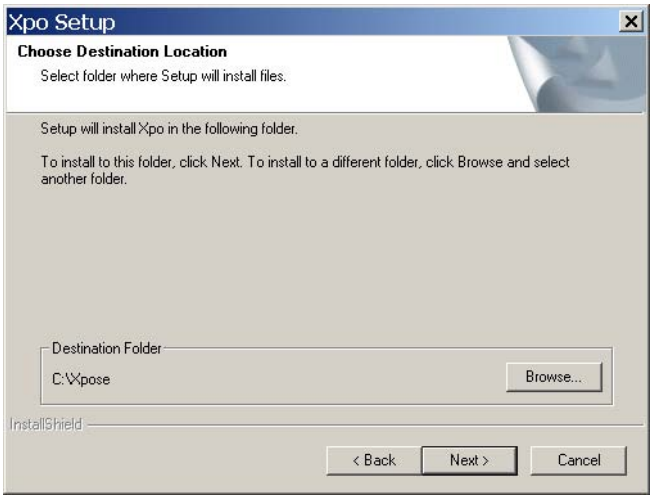
Note: This procedure applies to all Magnus 400 Controller platesetters with Xpo software configurations (TSP inside).

1. Insert the Xpo for Magnus 400 II software CD into the CD-ROM drive. When the Xpo Ver 3.2 Installation Setup dialog box appears, click **Next**.

   The License Agreement dialog box appears.

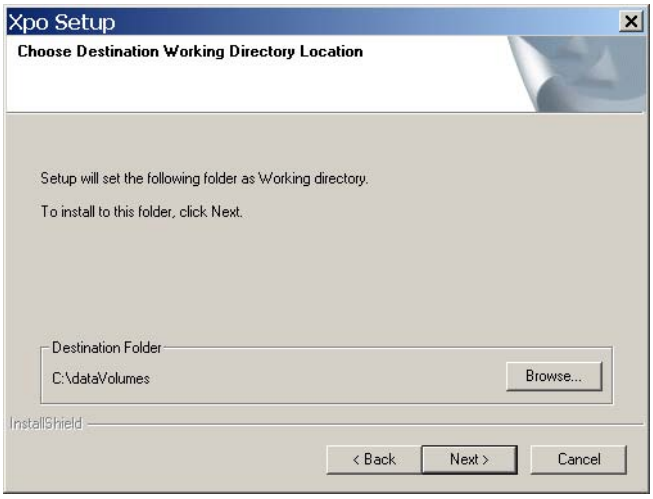
2. Click **Yes** to confirm the software license agreement.

   The Choose Destination Location screen appears.



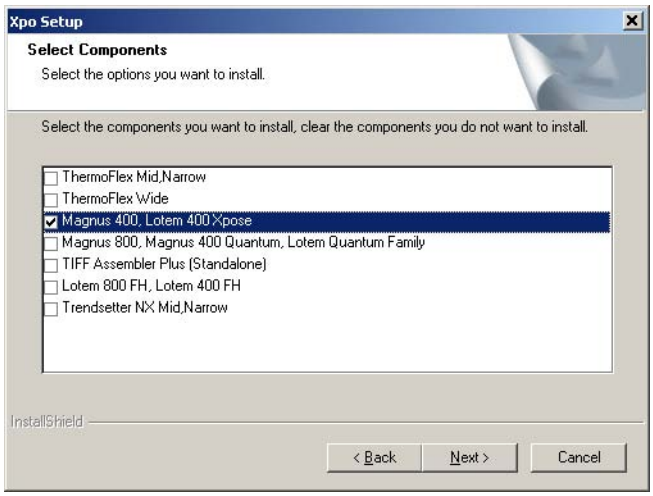
3. Click **Next**, or click **Browse** to locate the folder to which you want to install the Xpo files.

   The Choose Destination Working Directory Location screen appears.



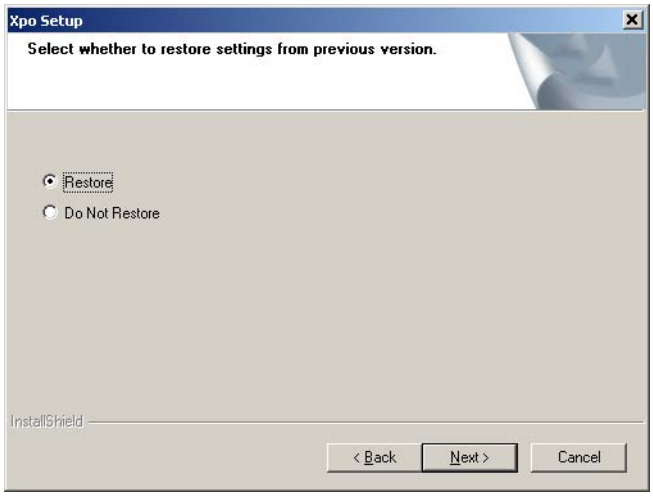
4. Click **Next**, or click **Browse** to locate the folder to use as the working directory.

   The Select Components screen appears.



5. Select the **Magnus 400, Lotem 400 Xpose** check box, and click **Next**.

   The software takes a few moments to install, and the Select whether to restore settings from previous version dialog box appears.



6. Select **Restore** or **Do Not Restore**, and click **Next**.

   The Installshield Wizard Complete screen appears.

7. Select the **Yes, I want to restart my computer now** option, and click **Finish**.

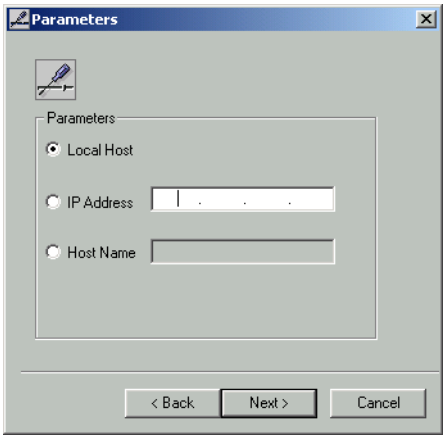
   The computer restarts automatically.

8. Start the Magnus 400 Controller software, and make sure that it is in **Ready** mode.

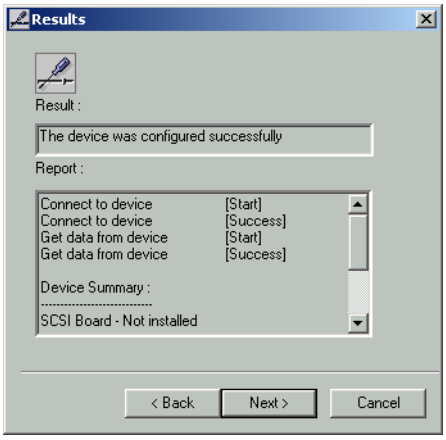
   Note: Before configuring the Xpo software, make sure that the TSP cable is properly connected to the correct port.

9. When a warning message appears, click **OK**.

10. On the Windows desktop, select **Start > Programs > Xpo > Config**.
11. In the Parameters dialog box, select **Local Host**, and click **Next**.



12. In the Results dialog box, click **Next** to continue the configuration.

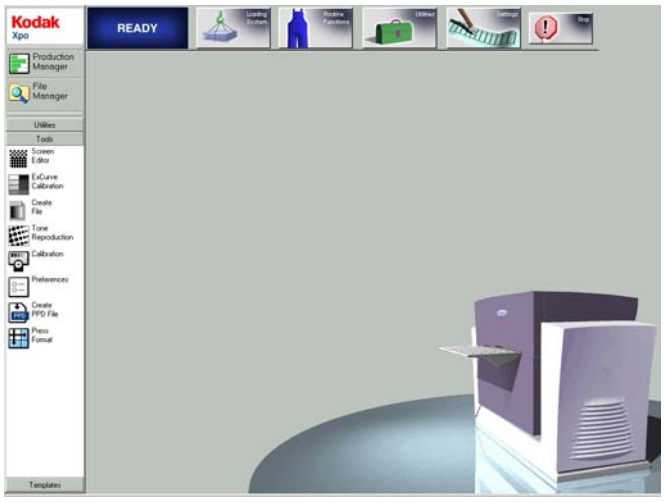


13. In the Screen board dialog box, click **Finish**.



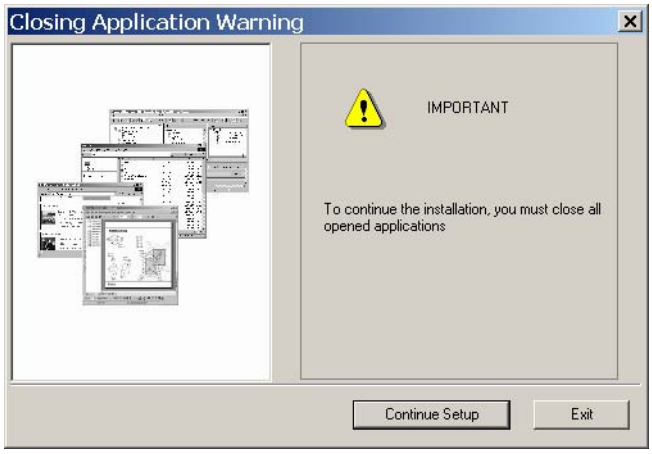
14. To start Xpo for Magnus 400 Controller, on the Windows desktop, select **Start > Programs > Xpo > Xpo**.

    The Xpo for Magnus 400 II palette appears next to the Magnus 400 Controller workspace.



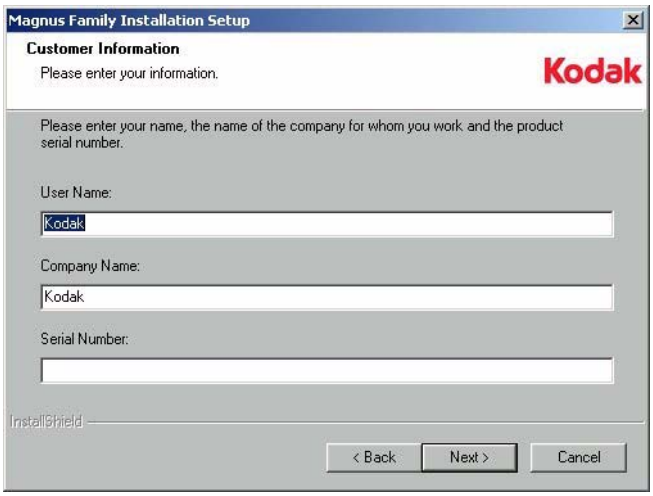
Installing the Software on a Magnus 400 II Quantum Platesetter

1. Insert the Magnus 400 Controller software CD into the CD-ROM drive. When the Closing Application Warning dialog box appears, verify that all software is closed, and click **Continue Setup**.



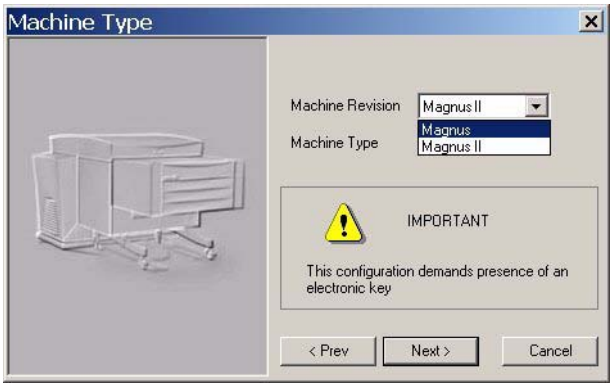
2. When the Magnus Family Installation Setup dialog box appears, click **Next**.

   The Customer Information screen appears.

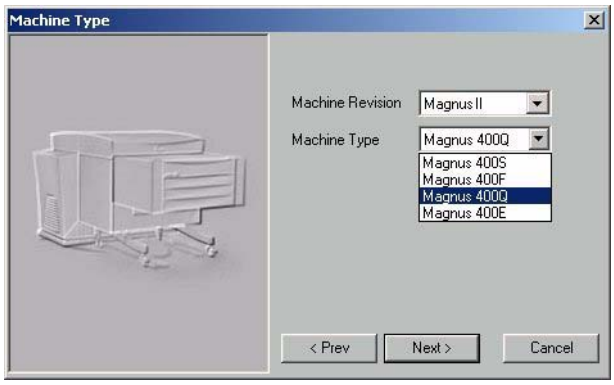


3. Type the following customer information, and click **Next**.
   - User Name: (your user name)
   - Company Name: Kodak (or customer's name)
   - Serial Number: (the Magnus 400 II Quantum platesetter serial number)

   The Machine Type dialog box appears.



4. Perform the following steps:
   a. In the **Machine Revision** list, select **Magnus II**.
   b. In the **Machine Type** list, select the platesetter that you are installing.



   c. Click **Next**.

      The Machine Type dialog box is refreshed, and the selected platesetter type appears in the title bar.



5. Perform the following steps:
   a. In the **Loading System** list, select either **Semi Automatic** or **Auto Loader**.
   b. In the **UDRC** list, select either **none**, **BP,** or **Other**.

      Note: If you select **BP**, verify that the UDRC BP cable and the nozzle vacuum detector and wiring are installed on the platesetter.

   c. In the **TH Config** list, select either **2400** or **2540**.
   d. In the **Conveyor** list, select **none**, **Standard**, or **Punch**.
   e. Click **Next**.

   The Magnus 400 Controller software takes a few minutes to load.

After the software is successfully installed, the Reboot screen appears.



6. Select **Yes, I want to restart my computer now**, and click **Finish**.
7. Remove the Magnus 400 Controller software CD from the CD-ROM drive, and restart the computer.

Restoring the Registry and Database Files

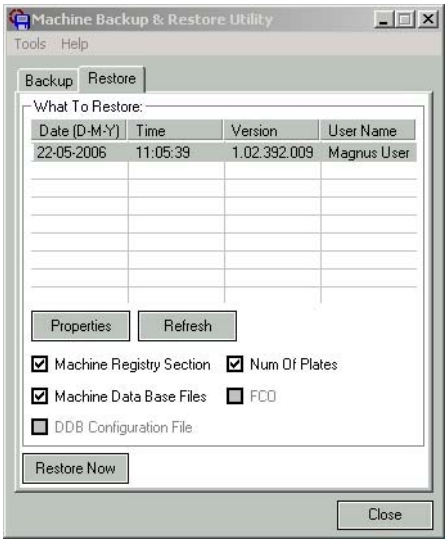
To restore the registry and database files:

1. Turn on the platesetter, and start the Magnus 400 Controller software.
2. Insert the **Machine Parameters** disk into the disk drive. See *Saving the Registry and Database Files* on page 13.



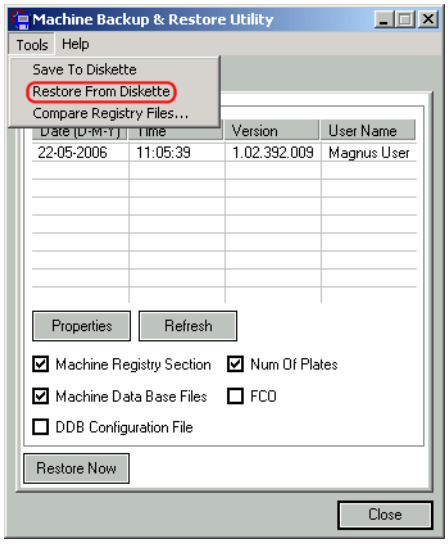
3. On the desktop, double-click the **MachineBackup** icon.

   The Machine Backup & Restore Utility window appears.



4. Click the **Restore** tab.

5. From the **Tools** menu, select **Restore From Diskette**, and click **Restore Now**.



6. When the Machine Backup & Restore Utility finishes restoring the files to the drive C, the following message appears:



7. Click **OK**, and click **Close** to quit the Machine Backup & Restore Utility.
8. Remove the disk from the drive, and return it to the PC assembly.

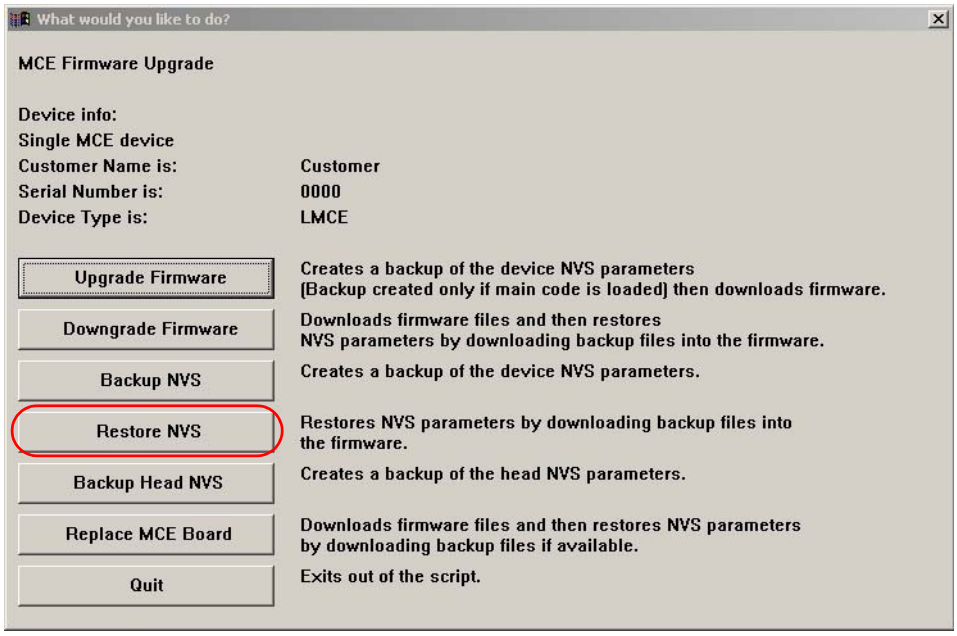
Restoring the NVS RAM and MCE NVS FLASH Parameters

Note: Performing the restore procedure requires a previous backup.

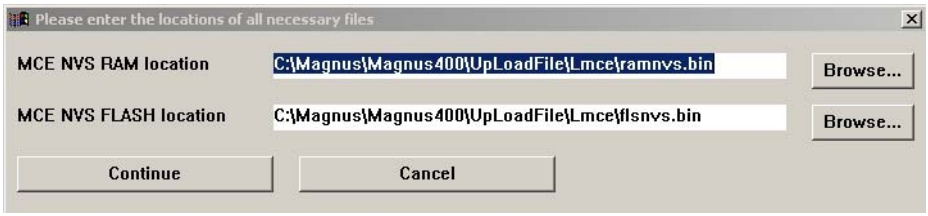
The NVS RAM and MCE NVS FLASH parameters are defined on the MCE board. Follow the steps in this procedure if the MCE board is damaged or becomes corrupted.

1. In the Service Shell workspace, on the left panel, click the **Scripts** tool.
2. On the middle panel, click **Device**, and double-click **FirmwareUpgrade**.
3. When the Script Tool message appears, click **Yes**.

4. Wait a few moments for the MCE Firmware Upgrade dialog box to appear, and click **Restore NVS**.



5. In the dialog box, in the **MCE NVS RAM location** box, click **Browse** to locate the file that you want to restore:
C:\Magnus\Magnus400\UpLoadFile\Lmce\ramnvs.bin file.



6. In the **MCE NVS FLASH location** box, click **Browse** to locate the file that you want to restore:
C:\Magnus\Magnus400\UpLoadFile\Lmce\flsnvs.bin file.
7. Click **Continue**.
8. When the files finish loading, in the MCE Firmware Upgrade dialog box, click **Quit** to exit Script view and return to Monitor view.
9. At the command prompt, type `reset`.

   All the parameters in the selected files are loaded onto the MCE board.

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