Kodak

Magnus 400 Controller Software for Magnus 400E and Magnus 400 Quantum

Configurations

Version 1.04.393

Release Notes

English

739-00385A-EN Rev A

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Introduction

Welcome to the Kodak® Magnus 400 Controller 1.04.393 software release notes for Kodak Magnus™ 400E and Kodak Magnus 400 Quantum platesetter configurations. These release notes provide late-breaking information about the Magnus 400 Controller 1.04.393 software. Where appropriate, they refer you to other documentation for more information.

Software Prerequisites

For Magnus 400 Quantum configurations: Magnus 400 Controller 1.02.392.030 software.

For Magnus 400E configurations: Kodak Xpo™ 3.1.55 software.

Version Description

The Magnus 400E platesetter is a low-cost, 4-up device with limited specifications that was specifically designed to meet entry-level market demands. It is a semi-automatic, single resolution (2400 dpi) device.

Continuous load (CL) configurations and Kodak Staccato® screening are not available with this model.

Note: The Magnus 400E cannot be upgraded to semi-cassette unit (SCU) or multi-cassette unit (MCU) configurations.

The Magnus 400 Controller 1.04.393 software, which is based on the Magnus 400 Controller 1.02.392.030 software, supports *only* the Magnus 400E and Magnus 400 Quantum configurations, and includes the following features.

Feature	Magnus 400E	Magnus 400 Quantum
Magnus 400E dongle protection (part number 638-00092)	✓	
Semi-automatic loading system	✓	
Single resolution (2400 dpi)—supports up to 175 lpi screen ruling	✓	
Variable Mainscan Resolution (VMR) Dongle-protected (part number 638-00068)		✓

Magnus 400E Dongle Protection

Attention: Removing the dongle on a Magnus 400E configuration disables platesetter operation.

The Magnus 400E dongle enables you to:

- Configure the platesetter for maximum plate size (680×750 mm)
- Define the platesetter according to its specified limitations

Graphic User Interface

On start-up and in all other relevant locations, the Magnus 400E platesetter is identified as **Magnus 400E**.

Load Plate messages (accompanied by the blue flashing LED on the loading tray) will appear only when plate loading is possible (and after a previous plate is unloaded).

Note: Load Plate messages appear only after the first separation has been sent to expose.

During platesetter operation, the following messages might appear when:

- **Load Plate messages**
  - **A plate is not loaded and you need to press the Load Plate button :** `Please place plate <plate name>(<plate thickness> <plate size>) on the loading tray and click OK or press the load plate button on the loading tray.`
  - **A plate is loaded and you have not pressed the Load Plate button:** `Please click OK or press the load plate button on the loading tray.`
  - **A plate is not loaded and you have pressed the Load Plate button:** `Plate not loaded. There is no plate on the try. Place and center a pate on the tray.`
- **Dongle messages**
  - **The Magnus 400E dongle is not found:** `Magnus 400E key(s) is required for the platesetter to achieve maximum specifications. Insert the Magnus 400E key(s) and restart your PC, or contact your service representative.`
  - **An extra dongle is found (for example F_Speed):** `F_Speed key(s) is not required to operate the platesetter in its current configuration. However, the software located F_Speed key(s) in your system. It is illegal to operate the platesetter with F_Speed key(s). Remove the F_Speed key(s) and restart your PC or contact your service representative.`

Semi-Automatic Loading System

The Magnus 400E platesetter loads a new plate only *after* the previous exposed plate has been unloaded. The platesetter operator monitors and initiates new plate loading.

The Magnus 400E loading tray has the following identifying characteristics:

- Color: The loading tray is black.
- Blue LED: The Load Plate button has a blue LED that flashes to indicate when a new plate can be loaded.



Resolution

The Magnus 400E platesetter is limited to a single 2400-dpi exposure resolution.

In the registry, the following parameters were changed:

- **MACHINE/Maximum Resolution** parameter was changed from 140 to **95**.
- **MACHINE/Minimum Resolution** parameter was changed from 60 to **94**.

What Is in These Release Notes

The release notes include the following sections:

New Features describes new menu commands, options, windows, or dialog boxes that were added to Magnus 400 Controller 1.04.393 software.

Known Problems lists problems that are not yet resolved, as well as problems that cannot be fixed due to software constraints.

Installing the Software on a Magnus 400E Platesetter describes how to install the Magnus 400 Controller 1.04.393 software on Magnus 400E configurations. It also provides tips on how to deal with typical situations or problems that you may encounter.

Installing the Software on a Magnus 400 Quantum Platesetter describes how to install the Magnus 400 Controller 1.04.393 software on Magnus 400 Quantum configurations. It also provides tips on how to deal with typical situations or problems that you may encounter

New Features

This section, which lists features that were added in the release of the Magnus 400 Controller 1.04.393 software, applies *only* to Magnus 400 Quantum platesetters.

Variable Mainscan Resolution for Magnus 400 Quantum

Variable mainscan resolution (VMR) is available on Magnus 400 Quantum platesetters *only*.

The VMR option is required mainly to enable lenticular printing, which refers to a printed image that shows depth or motion as the viewing angle changes.

For prepress purposes, VMR enables you to:

- Change the pixel resolution of the device in the mainscan (around the cylinder) direction.
- Make fine adjustments (± 3.2%) by stretching or shrinking the pixel size to fit minor variations of lenticular lens frequencies.

VMR also enables the platesetter to image different resolutions in the mainscan direction:

- For TH2400: From 1200 dpi up to 4800 dpi
- For TH2540: From 1270 dpi up to 5080 dpi

To enable VMR, you must plug in the dongle.

Note: If you remove the dongle on a Magnus 400 Quantum configuration, the VMR functionality is disabled, but you can continue exposing with the platesetter.

VMR is available via the following workflow systems:

- Kodak Brisque® 5.1 workflow software and later
- Kodak Prinergy® 3.1.0.3 workflow software and later (via the Kodak Xpo™ 3.1 software)
- Kodak Prinergy Evo™ 3.1.6 workflow software and later (via the Xpo 3.1 software)

Note: To enable the VMR option on the platesetter, see *Enabling VMR* on page 19.

Central Punch for Magnus 400 Quantum

This section applies *only* to Magnus 400 Quantum platesetters.

In earlier versions of the software, image position was corrected by adjusting the value of the **Height Start Image Area (mm)** parameter. In version 1.04.393, you correct the image position by changing the **Drum Edge Position (mm)** parameter value, as required.

See *Installing the center punch on Magnus 400 and Lotem 400*.

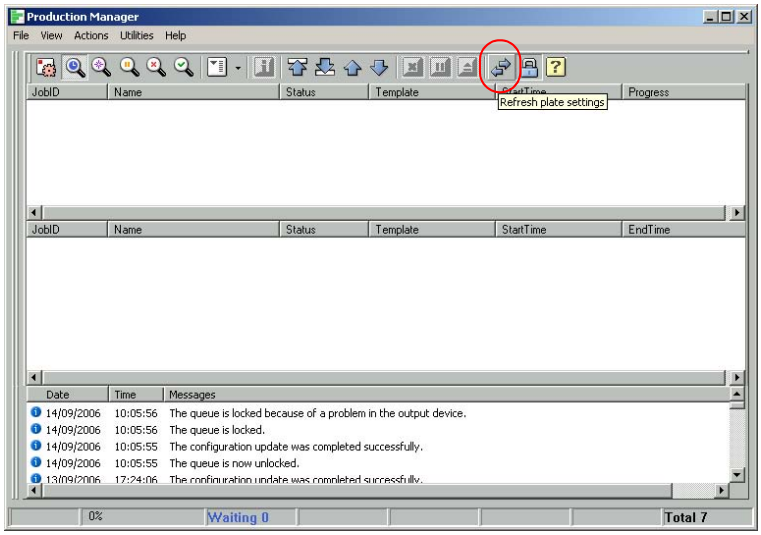
Known Problems

This section lists known problems in the Magnus 400 Controller 1.04.393 software.

- Local3 loading not consistent: This problem still occurs. To work around this problem, install the Infineon Memtool 3 software. For more information, see *Resetting the Local3 Board on Magnus 400*.
- Remote support: When you select **Utilities > Remote Support** for the first time, initially the NetMeeting Setup dialog box appears (in which you must click **Next** several times), followed by the Remote Support dialog box. After the Remote Support dialog box appears for the first time, it will appear automatically whenever the **Remote Support** option is selected.
- In the Laser Info Tables window, the **Extension** tab is unavailable.
- The Magnus 400 Controller software stops responding when the Xpo Calibration dialog box is open and you send a plate to expose after changing a parameter in the Media Definition dialog box.

  Workaround:

  1. In the Magnus 400 Controller software, in the Media Definitions dialog box, change the required parameter and click **OK**.
  2. Close the Xpo Calibration dialog box.
  3. On the Xpo palette, select **Production Manager**.
  4. In the Production Manager window, on the toolbar, click the **Refresh plate settings** button and close the window.

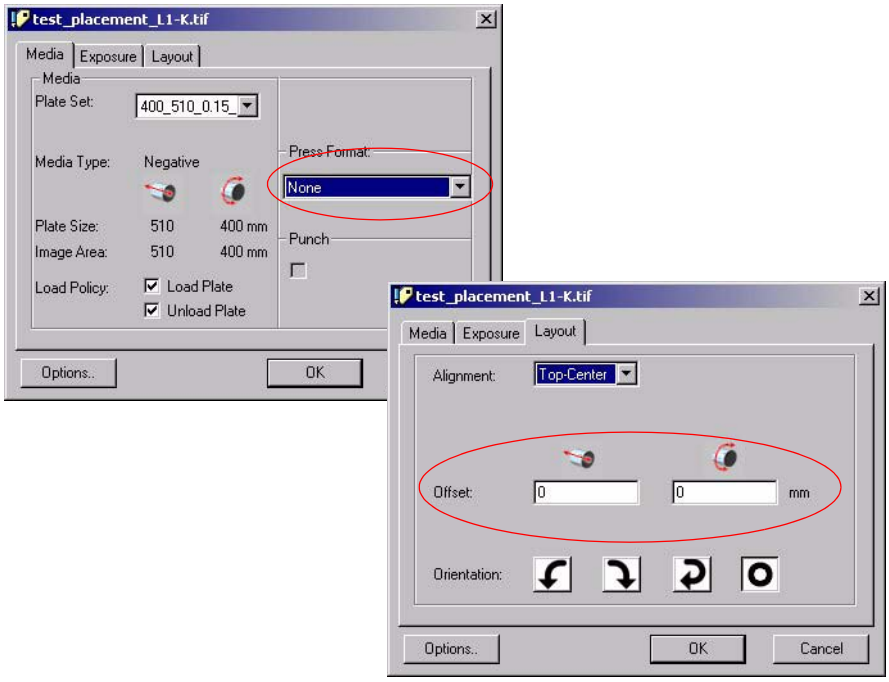


  5. On the Xpo palette, select **Calibration**.
  6. In the Calibration dialog box, send a plate to expose.

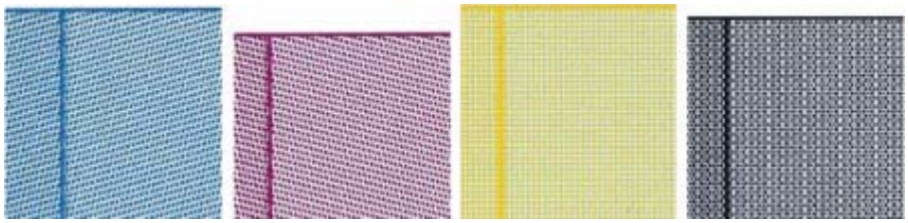
- In rare cases, in the Media Setting dialog boxes and in the Loading System dialog boxes, the buttons are unavailable (gray).

  Workaround: Close the relevant dialog box and reopen it.

- On Magnus 400E configurations *only*: A white line appears on the exposed area when exposing a negative plate using a positive exposure, and the **Press Format** is **None** with no **Offset** selected.



- When exposing an image on Magnus 400 platesetters with a laser diode array (LDA) head and rotate left is the selected orientation, horizontal lines appear.



Workaround: In the workflow software, when exposing images, do not rotate the image to the left.

- During the exposure process, when a delay test is running, the wrong delay value appears in the Expose Params window.

  Workaround: In the Kodak Xpo™ software, add an additional **0.07** mW to the **Delay** value and save it. During the exposure process, in the Magnus 400 Controller software, verify that the saved value appears in the Expose Params window (under **LASER**).

  For example, if the results of your delay tests indicate that the best delay value is 82.14 mW:

  1. In the Xpo software, change the **Delay** value to **82.21** mW.
  2. During the exposure process, in the Magnus 400 Controller software, in the Expose Params window under **LASER > Delay**, verify that 82.14 mW appears.
  3. Submit an exposure job and verify that the delay value returns the proper results on the plate.

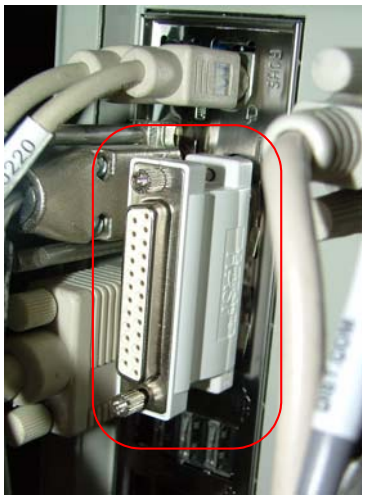
Installing the Software on a Magnus 400E Platesetter

This section describes how to install the Magnus 400 Controller 1.04.393 software on Magnus 400E configurations.

Note: The Magnus 400E cannot be upgraded to semi-cassette unit (SCU) or multi-cassette unit (MCU) configurations.

Important: Before installing the software, verify that you are using the correct customer feature dongle and that it is properly connected to the parallel port on the computer.

Dongle Type	Part Number
Magnus 400E (M400E)	638-00092



Before You Begin

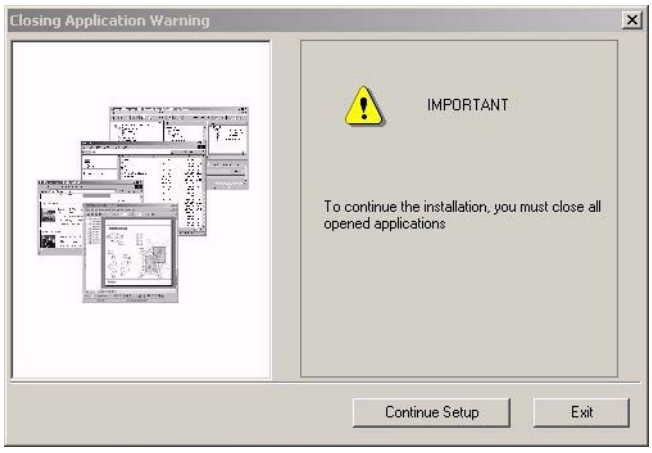
1. On the **Operations** toolbar, verify that the status indicator is **Ready**.
2. Using the Magnus 400 Controller 1.02.392.030 software, open the rear door of the platesetter.
3. Quit the Magnus 400 Controller 1.02.392.030 software, Kodak Service Shell, and any other software that is open on the client workstation.



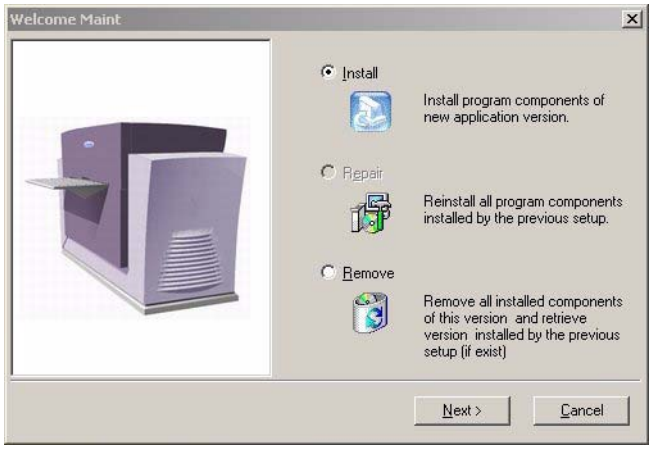
4. To save the registry and database files, on the Microsoft® Windows® desktop, double-click the **MachineBackup** icon. See *Saving the Registry and Database Files* in the *Magnus 400 Cold Start Installation Guide* (731-00804A).

After you successfully back up the machine registry and database files, you need to install the Magnus 400 Controller 1.04.393 software.

1. Insert the **Magnus 400E and Quantum Version 1.04.393** CD (651-00774A) into the CD-ROM drive. When the Closing Application Warning dialog box appears, verify that all software is closed and click **Continue Setup**.

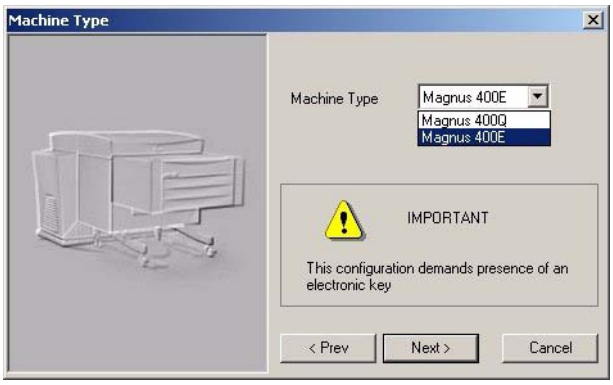


2. When the Welcome Maint dialog box appears, select **Install** and click **Next**.



3. When the Magnus Family Installation Setup dialog box appears, click **Next**.
4. In the Customer Information dialog box, verify that the following customer information is correct, and then click **Next**.
   - User Name: (your user name)
   - Company: Kodak (or customer's name)
   - Serial Number: (the Magnus 400E platesetter serial number)

The Machine Type dialog box appears.



5. In the Machine Type list, select **M400E** and click **Next**.

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



6. Perform the following steps, and then click **Next**:

   a. The **Loading System** is predefined as **Semi Automatic** and cannot be changed.

   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** or **Standard**.

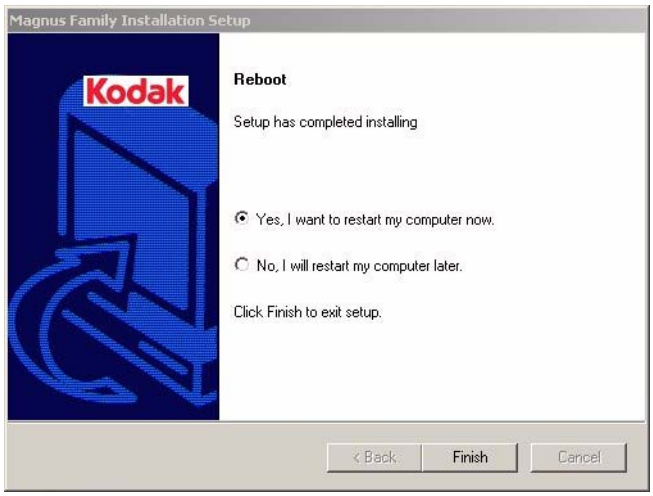
   e. In the **Data Unit Type** list, **LIF** is predefined and cannot be changed.

   Note: When you click Next, first a progress indicator appears, and then the following message appears, click **OK**.



   The Magnus 400 Controller 1.04.393 software takes a few minutes to load.

7. Remove the **Magnus 400E and Quantum Version 1.04.393** CD from the CD-ROM drive.
8. In the Reboot dialog box, select **Yes, I want to restart my computer now.** and click **Finish**.



Important: Proceed to the next section, *Verifying Firmware Versions on a Magnus 400E Platesetter*. Do not start the Magnus 400 Controller 1.04.393 software until you have verified that the firmware files are installed on the platesetter.

Verifying Firmware Versions on a Magnus 400E Platesetter

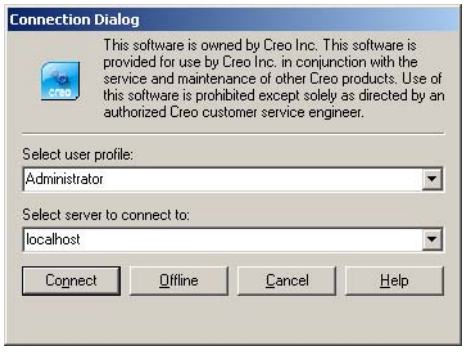


1. On the Microsoft® Windows® desktop, double-click the **Service Shell Client** icon.

   The Service Shell Login window appears.
2. Type the appropriate password.

   The Connection Dialog dialog box appears.

   Note: The password is updated periodically. To obtain the correct password, contact the system administrator.



3. Click **Connect**.

   The Service Shell workspace appears.

4. On the left panel in the Service Shell workspace, click **Device Monitor**.
5. At the `LMCE>>` command prompt, type: `fw dir` and press ENTER.

   For platesetters with an 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`
6. Quit the Service Shell workspace and start the Magnus 400 Controller 1.04.393 software.

Removing Unnecessary Screen Set Files

The Magnus 400E platesetter is designed exclusively to support *only* up to 175 lpi screen rulings. Before using the Xpo software with the platesetter, you must delete all screen set files that are higher than 175 lpi.

➢ Locate **C:\Xpose\version\plt_calib\files** and delete all the files whose filenames begin with:

- ❒ **Vinette200r100**
- ❒ **Vinette200r120**
- ❒ **Vinette200r94**
- ❒ **Vinette250r100**
- ❒ **Vinette250r140**
- ❒ **Vinette250r94**
- ❒ **VinetteS200r100**
- ❒ **VinetteS200r94**
- ❒ **VinetteST25r100**
- ❒ **VinetteST25r94**

Restoring the Registry and Database Files on Magnus 400E Configurations

Restore the database, and then manually enter all the non-default values that you previously wrote down, but not the MCU loading parameters (leave these values as default). See step 4 in *Before You Begin* on page 9.



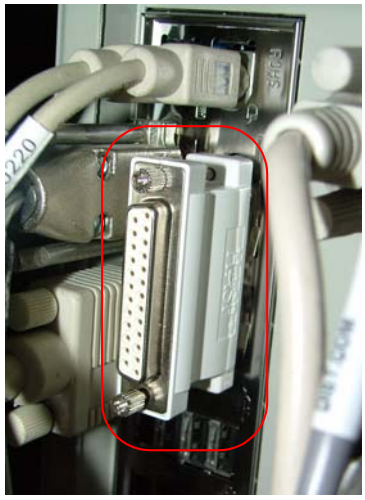
➢ To restore the registry and database files, on the Windows desktop, double-click the **MachineBackup** icon. See *Restoring the Registry and Database Files* in the *Magnus 400 Cold Start Installation Guide* (731-00804A).

Installing the Software on a Magnus 400 Quantum Platesetter

This section describes how to install the Magnus 400 Controller 1.04.393 software on Magnus 400 Quantum configurations.

Important: Before installing the software, verify that you are using the correct customer feature dongle and that it is properly connected to the parallel port on the computer.

Dongle Type	Part Number
Magnus 400 Quantum (VMRCTP)	638-00068



Before You Begin

1. On the **Operations** toolbar, verify that the status indicator is **Ready**.
2. Using the Magnus 400 Controller 1.02.392.030 software, open the rear door of the platesetter.
3. Quit the Magnus 400 Controller 1.02.392.030 software, Kodak Service Shell, and any other software that is open on the client workstation.

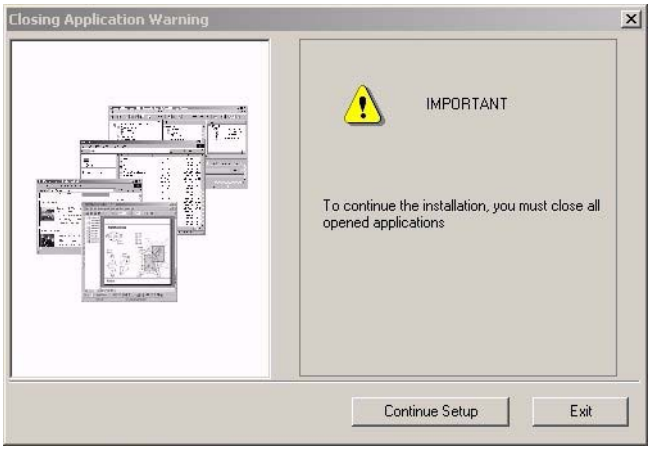


4. To save the registry and database files, on the Microsoft Windows desktop, double-click the **MachineBackup** icon. See *Saving the Registry and Database Files* in the *Magnus 400 Cold Start Installation Guide* (731-00804A).

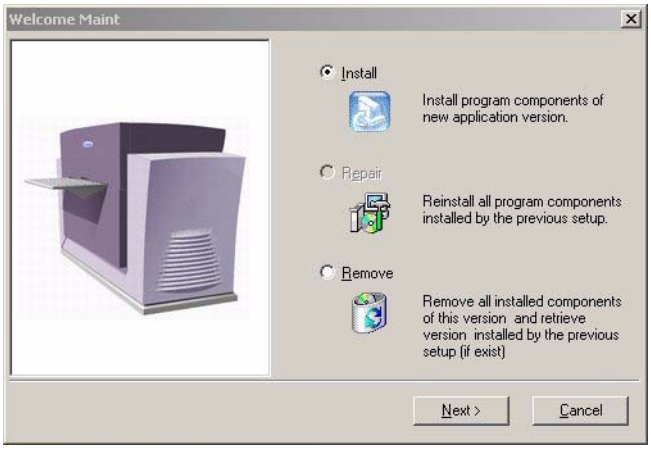
   Note: In addition to saving the registry and database files, you must also save the nonvolatile storage (NVS) parameters.

After you successfully back up the machine registry and database files, you need to install the Magnus 400 Controller 1.04.393 software.

1. Insert the **Magnus 400E and Quantum Version 1.04.393** CD (651-00774A) into the CD-ROM drive. When the Closing Application Warning dialog box appears, verify that all software is closed and click **Continue Setup**.

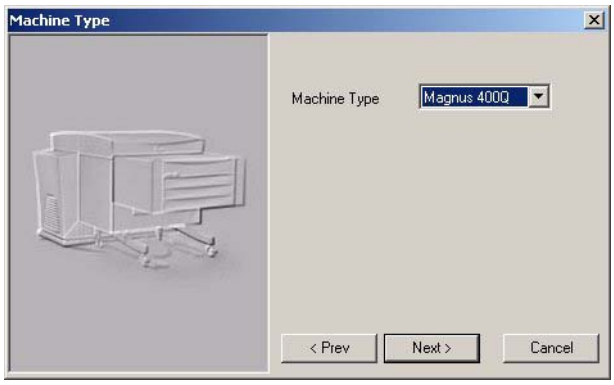


2. When the Welcome Maint dialog box appears, select **Install** and click **Next**.



3. When the Magnus Family Installation Setup dialog box appears, click **Next**.
4. In the Customer Information dialog box, type the following customer information, and then click **Next**.
   - User Name: (your user name)
   - Company Name: Kodak (or customer's name)
   - Serial Number: (the Magnus 400 Quantum platesetter serial number)

The Machine Type dialog box appears.



5. In the Machine Type list, select **Magnus 400Q** and click **Next**.

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



6. Perform the following steps, and then click **Next**:

   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 either **none** or **Standard**.

   The Magnus 400 Controller 1.04.393 software takes a few minutes to load.

7. Remove the **Magnus 400E and Quantum Version 1.04.393** CD from the CD-ROM drive.

8. In the Reboot dialog box, select **Yes, I want to restart my computer now.** and click **Finish**.



Important: Proceed to the next section, *Verifying Firmware Versions on a Magnus 400 Quantum Platesetter*. Do not start the Magnus 400 Controller 1.04.393 software until you have verified that the firmware files are installed on the platesetter.

Verifying Firmware Versions on a Magnus 400 Quantum Platesetter



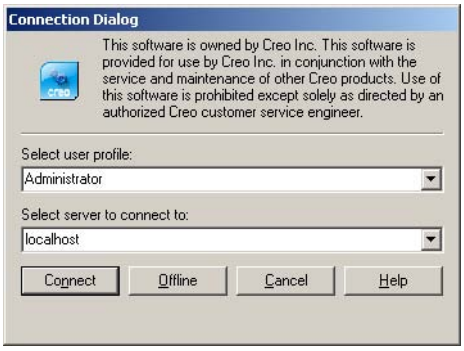
1. On the Windows desktop, double-click the **Service Shell Client** icon.

   The Service Shell Login window appears.

2. Type the appropriate password.

   The Connection Dialog dialog box appears.

   Note: The password is updated periodically. To obtain the correct password, contact the system administrator.



3. Click **Connect**.

   The Service Shell workspace appears.

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

5. At the `Quantum>>` command prompt, type: `fw dir` and press ENTER.

   For platesetters with a TH2 head (TMCE firmware), the following application versions should appear:

   - `MCE_MAIN: 1.40.00`
   - `MCE_LCA: 2.28`
   - `MCE_BOOT: 1.16.1`
   - `MCE_POST: 1.06`

6. To view the TH2 application version, at the `Quantum>>` command prompt, type `th2 "ver.`
   The following application version should appear:

   - `TH2: 1.05d Release`

7. Quit the Service Shell workspace and start the Magnus 400 Controller 1.04.393 software.

Restoring the Registry and Database Files on Magnus 400 Quantum Configurations

Restore the database, and then manually enter all the non-default values that you previously wrote down, but not the MCU loading parameters (leave these values as default). See step 4 in *Before You Begin* on page 14.



➢ To restore the registry and database files, on the Windows desktop, double-click the **MachineBackup** icon. See *Restoring the Registry and Database Files* in the *Magnus 400 Cold Start Installation Guide* (731-00804A).

- The MCU loading parameters are automatically set to their default values after installing the Magnus 400 Controller 1.04.393 software. Minor fine-tuning adjustments might be required.

  Note: For a detailed list of the MCU loading parameters, see Appendix A—MCU Loading System Parameters in the *Magnus 400 Controller Software 1.01.391.003 to 1.02.392 Upgrade Procedure* (731-00949A).

Enabling VMR

Perform the following procedure to enable VMR on the platesetter. If VMR is already installed on your platesetter, proceed to step 5.

1. In Service Shell, in Device Monitor view, at the `Quantum>>` command prompt, perform the following actions:
   a. Type `option` and press ENTER. Verify that the VMR option is enabled.
   b. Type `mode` and press ENTER.

      If required, create a third resolution option with the following parameters:

      - Thermal heads configured for 2400 dpi:
        Type `set mode 3 sscanresolution 2400` and press ENTER.
        Type `set mode 3 mscanresolution 4800` and press ENTER.
      - Thermal heads configured for 2540 dpi:
        Type `set mode 3 sscanresolution 2540` and press ENTER.
        Type `set mode 3 mscanresolution 5080` and press ENTER.
2. Create a new media slot to be used for future VMR exposures:
   a. In Service Shell, in Device Monitor view, locate an empty media slot for the setup.
   b. Copy the media settings of the customer's plate into the empty media slot, and then assign the setting a relevant name—for example, Kodak Thermal Gold VMR.
   c. Copy the thermal 2 head (TH2) media settings of the customer's plate in the new media slot. Use the same media name that you assigned to the empty media slot (in step 2b).
3. Use the *VMR drum speed calculator* to determine the maximum drum speed allowed for each device and resolution combination.
4. Using the following formula, calculate the laser power:
   original power x new drum speed / previous drum speed
5. Start the Magnus 400 Controller software and configure the new plate sizes using the media settings that you created for VMR.

If you do not have the proper dongle to enable VMR functionality, or the VMR option is not available and you send a job with VMR to expose, the following error message will appear:

```
The expose process failed. The VMR option is required for this
job. Either VMR option is not enabled or there is a problem with
the dongle. Verify that the dongle key is installed properly and
resubmit the separation. If the problem persists, call your
service representative.
```

VMR Limitations

VMR functionality has the following limitations:

- Because the resolution can be varied only in one direction, the interlaced image strips (or lenticular lens) must run across the drum.
- VMR works with all AM screens.
  Because Kodak Staccato® screening does not support asymmetric resolution, VMR is available for Staccato screening only with 2400×2400 dpi and 2540×2540 dpi ± 3.2%.
- When using VMR:
  - The imaging speed of the platesetter might be reduced up to 50% (depending on the file resolution).
  - The maximum drum speed is limited by the SCLK on the thermal head.
  - The following table shows the maximum drum speed that can be achieved at a specific mainscan resolution.

Maximum Drum Speed	Resolution
353 rpm (maximum drum speed for Magnus 400)	4953.6 dpi (4800 dpi + 3.2%)
334 rpm	5242.56 dpi (5080 dpi + 3.2%)

    The approximate power would be proportional to the reduced speed. The engineer that sets up the VMR option should run an expose series to verify that VMR is operational.

  - To cover all VMR resolutions that a customer might use:
    - For a thermal head with 2540 dpi: Create a new media slot with a drum speed for 5242.56 dpi (5080 dpi +3.2%).
    - For a thermal head with 2400 dpi: Create a new media slot with a drum speed for 4953.6 dpi (4800 dpi + 3.2%).
- Maximum drum speeds allowed for a specific resolution range—for example, 375 rpm is the maximum drum speed allowed for resolutions that are 4600 dpi or less and 330 rpm is the maximum drum speed allowed for resolutions that are higher than 4600 dpi.