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## Printer memory

Your printer ships with at least 64MB of memory. To determine the amount of memory currently installed in your printer, select Print Menus from the Utilities Menu. The total installed memory appears on the printout. For more information about printing the menu settings page, see [Printing the menu settings page](#).

The memory shipped in your printer and the memory options available use SDRAM DIMM memory technology. Unpredictable results may occur if you attempt to operate your printer with memory other than SDRAM DIMM memory installed.

When purchasing memory for your printer, make sure you use SDRAM DIMM memory cards that meet the following criteria:

- 100MHz or greater
- 100 pin
- 4KB refresh rate
- Unbuffered, non ECC
- x32
- 3.3 V



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## Adding memory

Your printer has three memory slots. The maximum amount of usable memory is 512MB. You may add SDRAM DIMM memory cards in any memory combination to suit your needs; however, the maximum amount of memory your printer can use is 512MB.

**Note:** Memory options designed for other Lexmark laser printers may not work with your printer.

Lexmark offers three memory options for your printer: 64MB, 128MB and 256MB. For memory installation instructions, refer to the *Setup Guide*.

Additional memory lets the printer print complex jobs, collate large jobs, and operate more efficiently. You can also download fonts and macros to printer memory. However, this type of memory is temporary storage. Anything stored in printer memory is lost when the printer power is turned off.

## Solving memory problems

If your printer encounters a memory shortage when trying to print a job, it may post an error message (37 **Insufficient Collation Area**, 37 **Insufficient Defrag Memory**, 38 **Memory Full**, or 39 **Complex Page**), depending on the task it is trying to complete. See [Understanding printer messages](#) for more information about these and other messages.



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If these messages appear frequently, you probably want to install additional printer memory. If they only occur rarely, try reducing the following:

- The number of pages in the job
- The number of fonts or graphics on each page
- The size of scalable fonts used in the document
- The number of fonts or macros downloaded to printer memory
- Deleting Held Jobs

You may also try adjusting the following settings:

- Print resolution to 600 dpi
- Page Protect On from the Setup Menu
- Resource Save Off from the Setup Menu

## Allocating memory

A portion of printer memory is reserved for input buffers that hold print jobs sent from your software application. Your printer has an input buffer for each interface (parallel, serial, network, LocalTalk, or infrared). You can change the amount of memory allocated to each buffer, depending on your system requirements. For more information about using printer menus to allocate memory for each interface, see [Using printer menus](#) and select the interface menu you want information about.



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The size of the input buffers varies with the amount of memory installed in the printer. The following table lists the default size of the input buffers for each interface. If your printer is not using a particular interface, the allocated memory is reserved for job processing.

For more detailed information about these input buffers and memory allocation, refer to the *Technical Reference*.

Installed memory	Default input buffer size					USB port
	Each parallel port	Each serial port	Each network port	LocalTalk port	Infrared port	
64MB	2MB	300KB	2MB	1MB	300KB	300KB
128MB						

<sup>1</sup> 1MB allocated to standard parallel port if no optional adapter is installed.



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## Flash memory

You can add optional flash memory to your printer. If you frequently download fonts, macros, forms, or symbol sets to your printer, you may want to use flash memory storage rather than RAM. Resources stored in flash memory are not lost when the printer power is turned off.

## Hard disk

If you have a large number of permanent resources you'd like to download to your printer, you may want to install an optional hard disk. The hard disk works much like flash memory, but has a larger storage capacity for downloaded resources. You can also use the hard disk for job buffering, collating large jobs, and gathering job statistics.

For instructions on installing a hard disk, refer to the *Setup Guide*.

## Job buffering

You can partition a portion of the hard disk for job buffering. In some cases, spooling jobs to a disk may decrease the time required for the printer to accept the print job data from the application. The job also remains stored on the disk until the entire job prints. Since disk memory acts as permanent storage, your jobs remain secure in the event of a power failure.



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You can enable or disable job buffering for each of the available printer ports (parallel, serial, fax, network, infrared, and LocalTalk) by doing the following:

- 1 Using the printer operator panel or MarkVision, select **Job Buffer size** under the Setup Menu.
- 2 Set the percentage of the disk you want to use for job buffering.
- 3 Press **Go** to return the printer to Ready status.

## Collating jobs

If you are collating a large job and printer memory is not sufficient, the printer automatically uses storage area available on an installed hard disk to finish collating the job. See **Collation** for more information.

## Storing job statistics

You can also use an installed hard disk to gather statistics about a specified number of the most recent print jobs. The statistics include whether the job printed with or without errors, the time required to print the job, the size (in bytes) of the job, the requested paper size and paper type, the color settings used, the total number of printed pages, and the number of copies requested.



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See **Job Accounting** for more information about setting up your printer to gather job statistics and printing the accumulated data. Or, if you're using the MarkVision utility, refer to the MarkVision online Help or the MarkVision documentation on the drivers CD.

## Managing resources downloaded to flash or disk

Use the MarkVision utility to manage the resources you store on flash memory or hard disk. MarkVision offers tools for;

- Setting the download target, formatting the storage devices
- Downloading resources
- Deleting files
- Moving files from one storage device to the other on the same printer or from one printer to another printer
- Printing a directory listing the resources stored on a device
- Read/write and write passwords to protect resources stored on flash memory or hard disk, or to protect individual files

For more information about the specific resource management tools that MarkVision offers, see the drivers CD or refer to the MarkVision online Help. For more information about setting passwords, refer to the *Technical Reference*. ▲

