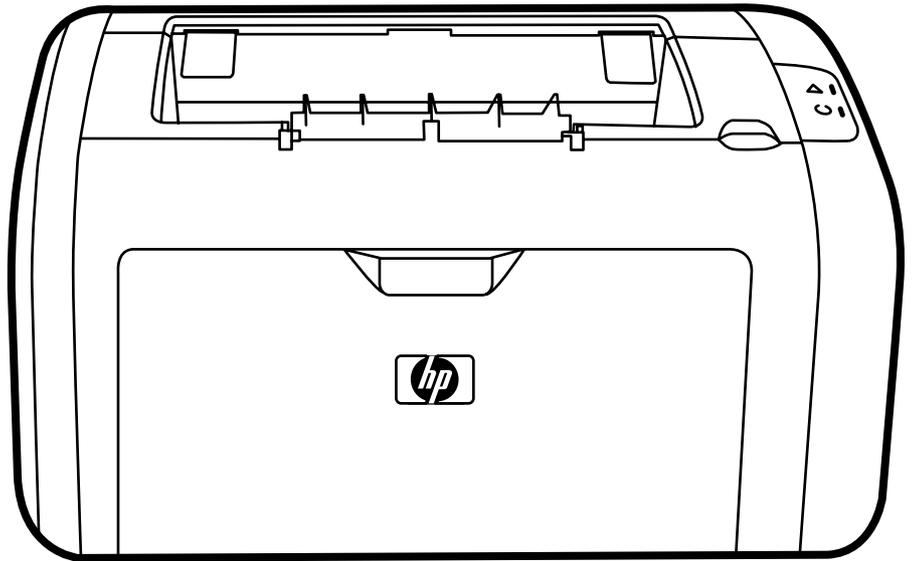


HP LaserJet 1018

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HP LaserJet 1018 printer

Service Manual



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Part number CB419-90938

Edition 1, 4/2006

Information regarding FCC Class B, Parts 15 and 68 requirements can be found in the user guide.

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Safety Information

WARNING!

Potential Shock Hazard

Always follow basic safety precautions when using this product to reduce risk of injury from fire or electric shock.

Read and understand all instructions in the user guide.

Observe all warnings and instructions marked on the product.

Use only a grounded electrical outlet when connecting the HP LaserJet 1018 printer to a power source. If you don't know whether the outlet is grounded, check with a qualified electrician.

Do not touch the contacts on the end of any of the sockets on the HP LaserJet 1018 printer. Replace damaged cords immediately.

Unplug this product from wall outlets before cleaning or servicing.

Do not install or use this product near water or when you are wet.

Install the product securely on a stable surface.

Install the product in a protected location where no one can step on or trip over the power cord and the power cord will not be damaged.

If the product does not operate normally, see the online user guide (CB419-90901).

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1 Product Information

This chapter provides general product information for the HP LaserJet 1018 printer.

- [Product configuration](#)
- [Overview of product](#)
- [Product specifications](#)
- [Extended service plan](#)
- [Print-cartridge information](#)
- [Regulatory information](#)

Product configuration

The HP LaserJet 1018 printer (HP LJ 1018) offers the following features:

- Prints up to 12 ppm
- 10 seconds or less to first page out
- FastRes 1200: 1200 dpi effective output quality (600 x 600 x 2 dpi with HP Resolution Enhancement technology [REt])
- 150-sheet input capacity (75-g/m² [20-lb] media)
- 125-sheet output bin capacity
- A priority feed slot
- EconoMode (saves toner)
- Prints watermarks, booklets, and multiple pages per sheet (N-up), and can print the first page on different media from the remainder of the document
- 2 MB of RAM
- 2,000-page print cartridge
- A USB 2.0 Hi-Speed port

Overview of product

HP LaserJet 1018 printer

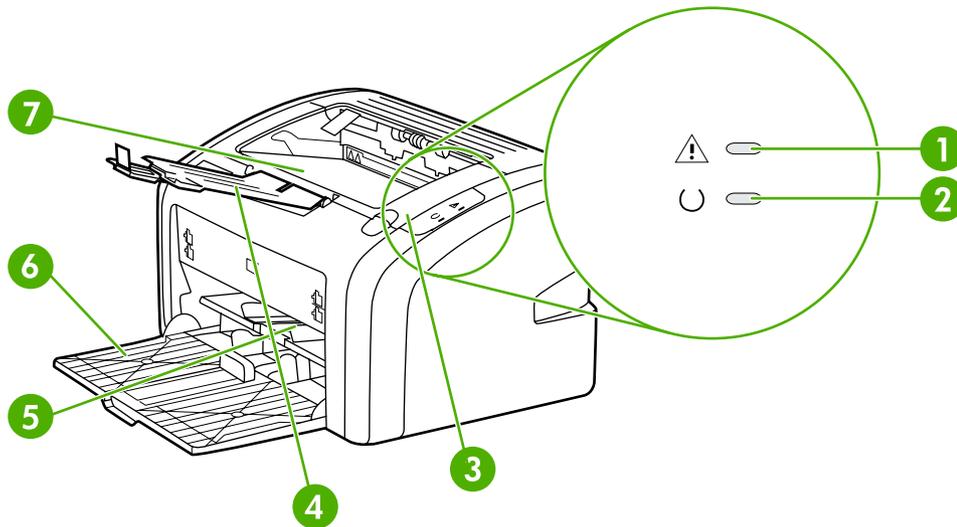


Figure 1-1 Front and right-side view

1	Attention light
2	Ready light
3	Print-cartridge door
4	Output-media support
5	Priority feed slot
6	150-sheet main input tray
7	Output bin

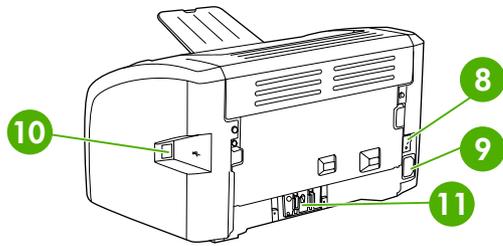


Figure 1-2 Back and left-side view

8	On/off switch
9	Power receptacle
10	USB port
11	Separation pad

Model and serial numbers

The model number and serial number are listed on an identification label located on the back of the product.

The serial number contains information about the country/region of origin, and the revision level, production code, and production number of the product.

The label also contains power-rating and regulatory information.

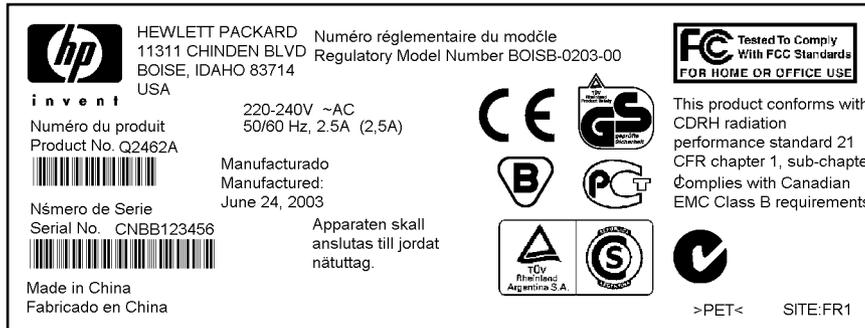


Figure 1-3 Model- and serial-number label (HP LJ 1010 printer is shown)

Hardware description

The HP LaserJet 1018 printer offers HP REt technology for 600 x 600 x 2 dpi printing (effectively 1200 dpi).

The printer prints up to 12 ppm. With an effective 1200 dpi printing resolution, the printer has exceptional text and graphics print quality. The simple control panel and improved paper-handling make this printer easy to use.

The main input tray has a 150-sheet (75-g/m² [20-lb] media) capacity for continuous, multiple-page printing. The priority feed slot is used to manually feed single sheets of most recommended media and holds up to ten sheets of 75-g/m² (20-lb) media. Both the main input tray and the priority feed slot are center-justified for all supported media sizes. The output bin holds up to 125 sheets of 75-g/m² (20-lb) media.

This printer has a very fast first-page-out, at less than 10 seconds to first page out. The base memory is 2 MB, and the printer uses an embedded 133 MHz processor.

The print engine has an average duty cycle of 1,000 pages per month (7,000 peak) or 50,000 total pages printed. The standard replacement print-cartridge life is 2,000 pages, in accordance with ISO/IEC 19752.



NOTE Actual print cartridge life depends on specific usage.

Firmware description

The firmware in the printer includes these features:

- Host-based printing
- EconoMode functionality

Product specifications

This section lists the specifications for the HP LaserJet 1018 printer.

Physical specifications

Table 1-1 Physical specifications

Model	Height	Depth	Width	Weight
HP LaserJet 1018 printer	209 mm (8.3 inches)	242 mm (9.5 inches)	370 mm (14.6 inches)	5.9 kg (13.0 lb)

Printer performance

Table 1-2 Performance

Model	Print resolution (normal)	Print speed (A4-size media)
HP LaserJet 1018 printer	600 x 600 dpi ¹	12 ppm

¹ 1200 dpi effective output quality, 600 x 600 x 2 dpi with HP Resolution Enhancement technology (RET)

Environmental specifications

Table 1-3 Environmental specifications (HP LJ 1018 printer)

Category	Specification
Operating environment (unit plugged into an alternating-current [ac] outlet)	<ul style="list-style-type: none">• Temperature: 10° to 32.5°C (50° to 90.5°F)• Humidity: 20 to 80% relative humidity (no condensation)
Storage environment (unit not plugged into an ac outlet)	<ul style="list-style-type: none">• Temperature: 0° to 40°C (32° to 104°F)• Humidity: 10 to 80% relative humidity (no condensation)

Electrical specifications



WARNING! Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This might damage the printer and void the product warranty.

Table 1-4 Power requirements

Specification	110-volt models	220-volt models
Power requirements	110–127 V (±10%)	220–240 V (±10%)
	50/60 Hz (±2 Hz)	50/60 Hz (±2 Hz)
Rated current	4.0 amps	2.3 amps



WARNING! Power sources are not interchangeable.

Table 1-5 Power consumption (average, in watts)¹

Product model	Printing ²	Ready ²	PowerSave	Off
HP LaserJet 1018 printer	250 W	4 W	4 W	0 W

¹ Values are subject to change. See <http://www.hp.com/support/lj1018> for current information.

² Power reported is highest value measured for printing using all standard voltages. HP LaserJet 1018 printer print speed is 12 ppm.

Acoustic emissions

Table 1-6 Acoustic emissions¹

Sound power level	Declared per ISO 9296
Printing	$L_{WA_d} = 6.2$ Bels (A) [62 dB (A)]
Ready	Inaudible
Sound pressure level—Bystander position	Declared per ISO 9296
Printing	$L_{pAm} = 49$ dB (A)
Ready	Inaudible

¹ Values are subject to change. See <http://www.hp.com/support/lj1018> for current information. Configuration tested: HP LaserJet 1018 printer using the standard tray, A4 paper, and simplex, continuous printing. During other operations, acoustic emissions might vary.

Extended service plan

In most countries/regions, extended service plans are available for hardware and technical support coverage for terms of up to three years. The service plan must be purchased during the hardware product's period of original warranty validity (typically one year).

Print-cartridge information

The print cartridge is designed to simplify replacement of the major consumable parts. The print cartridge contains the printing mechanism and a supply of toner.

The HP LaserJet 1018 ships with a 1000-page introductory print cartridge. The standard replacement print-cartridge life is 2,000 pages, in accordance with ISO/IEC 19752.



NOTE Actual print cartridge life depends on specific usage.

Refilled print cartridges

While Hewlett-Packard does not prohibit the use of refilled print cartridges during the warranty period or while the product is under a maintenance contract, use of refilled cartridges is not recommended for the following reasons:

- Repairs resulting from the use of refilled cartridges are not covered under Hewlett-Packard warranty or maintenance contracts.
- Hewlett-Packard has no control or process to ensure that a refilled cartridge functions at the high level of reliability of a new HP LaserJet print cartridge. Hewlett-Packard also cannot predict the long-term reliability effect on the product from using the different toner formulations that are found in refilled cartridges.
- The print quality of HP LaserJet print cartridges influences the customer's perception of the product. Hewlett-Packard has no control over the actual print quality of a refilled cartridge.
- Parts that are critical to print quality might not be replaced when the cartridge is refilled with toner.

Recycling print cartridges

In order to reduce waste, Hewlett-Packard offers a recycling program. Cartridge components that do not wear out are recycled. Plastics and other materials are recycled. Hewlett-Packard pays the shipping costs from the user to the recycling plant (within the United States). To join this recycling effort, follow the instructions inside the print cartridge box. See <http://www.hp.com/recycle> for more information.

Regulatory information

FCC compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If it is not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase separation between equipment and receiver.
- Connect equipment to an outlet on a circuit different from that to which the receiver is located.
- Consult your dealer or an experienced radio/TV technician.



NOTE Any changes or modifications to the printer that are not expressly approved by Hewlett-Packard could void the user's authority to operate this equipment. Use of a shielded interface cable is required to comply with the Class B limits of Part 15 of FCC rules.

Canadian DOC regulations

Complies with Canadian EMC Class B requirements.

«Conforme à la classe B des normes canadiennes de compatibilité électromagnétiques. «CEM».»

Korean EMI statement

사용자 안내문 (B급 기기)

이 기기는 비업무용으로 전자파장해 검정을 받은 기기로서, 주거 지역에서는 물론 모든 지역에서 사용할 수 있습니다.

Laser statement for Finland

LASERTURVALLISUUS

LUOKAN 1 LASERLAITE

KLASS 1 LASER APPARAT

HP LaserJet 1018 -laserkirjoitin on käyttäjän kannalta turvallinen luokan 1 laserlaite. Normaalisissa käytössä kirjoittimen suojakoteloointi estää lasersäteen pääsyn laitteen ulkopuolelle. Laitteen turvallisuusluokka on määritetty standardin EN 60825-1 (1994) mukaisesti.

VAROITUS!

Laitteen käyttäminen muulla kuin käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än i bruksanvisning specificerats, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

HUOLTO

HP LaserJet 1018 -kirjoittimen sisällä ei ole käyttäjän huollettavissa olevia kohteita. Laitteen saa avata ja huoltaa ainoastaan sen huoltamiseen koulutettu henkilö. Tällaiseksi huoltotoimenpiteeksi ei katsota väriainekasetin vaihtamista, paperiradan puhdistusta tai muita käyttäjän käsikirjassa lueteltuja, käyttäjän tehtäväksi tarkoitettuja ylläpitotoimia, jotka voidaan suorittaa ilman erikoistyökaluja.

VARO!

Mikäli kirjoittimen suojakotelo avataan, olet alttiina näkymättömälle lasersäteilylle laitteen ollessa toiminnassa. Älä katso säteeseen.

VARNING!

Om laserprinterns skyddshölje öppnas då apparaten är i funktion, utsättas användaren för osynlig laserstrålning. Betrakta ej strålen. Tiedot laitteessa käytettävän laserdiodin säteilyominaisuuksista:

Aallonpituus 785-800 nm

Teho 5 mW

Luokan 3B laser

2 Installation and operation

This chapter provides an overview of the appropriate operating environment, describes the control panel, describes media requirements, and describes how to load print media.

- [Operating environment](#)
- [Identifying the control-panel components](#)
- [Media specifications](#)
- [Guidelines for using media](#)
- [Loading media](#)
- [Setting media types](#)

Operating environment

Place the product on a sturdy, level surface in a well-ventilated area that meets the following environmental requirements:

- Temperature: 10° to 32.5°C (50° to 90.5°F)
- Humidity: 20 to 80% relative humidity (no condensation)
- Away from direct sunlight, open flames, and ammonia fumes
- With sufficient space around the product to accommodate access and ventilation requirements

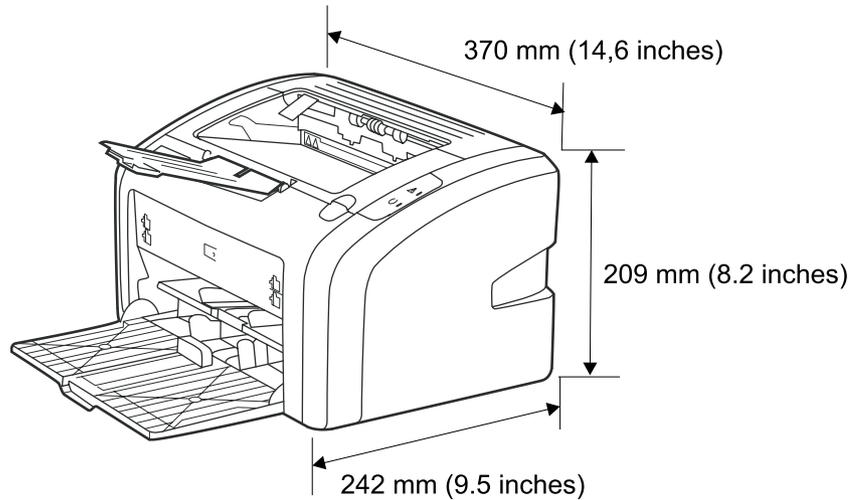


Figure 2-1 HP LaserJet 1018 printer dimensions

Identifying the control-panel components

The printer control panel has two lights. These lights produce patterns that identify printer status.

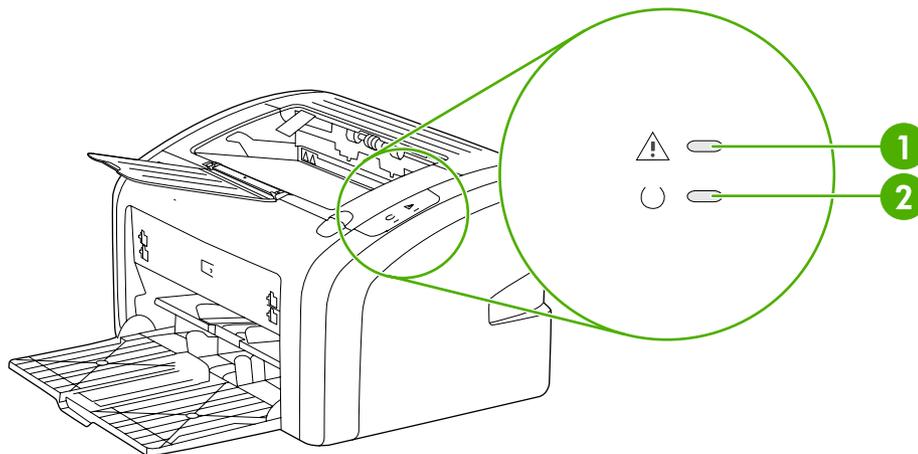


Figure 2-2 Control-panel lights

1	Attention light: Indicates that the print-cartridge door is open, print cartridge is missing, and other errors.
2	Ready light: Indicates that the printer is ready to print.

Media specifications

The printer accepts a variety of media. Properties such as weight, grain, and moisture content are important factors that affect printer performance and output quality. Media should conform to the guidelines in the User Guide. Media that does not meet HP guidelines might cause poor print quality, increased media jams, or premature wear on the printer, which might require printer repair.



CAUTION Damage that is caused by using media that does not meet HP specifications is not covered by the HP warranty or service agreements.

Supported media sizes

The printer supports media within this size range:

- **Minimum:** 76 x 127 mm (3 x 5 inches)
- **Maximum:** 216 x 356 mm (8.5 x 14 inches)

Table 2-1 Media sizes

Paper type	Metric	English
Letter	216 x 279 mm	8.5 x 11 inches
Legal	216 x 356 mm	8.5 x 14 inches
Executive	184 x 267 mm	7.25 x 10.5 inches
A4	210 x 297 mm	8.25 x 11.75 inches
COM10 envelopes	105 x 241 mm	4.13 x 9.5 inches
DL envelopes	110 x 220 mm	4.33 x 8.67 inches
C5 envelopes	162 x 229 mm	6.4 x 9 inches
B5 envelopes	176 x 250 mm	6.9 x 9.85 inches
Monarch envelopes	98.5 x 191 mm	3.88 x 7.5 inches
Labels	216 x 279 mm	(8.5 x 11 inches)
Custom-size media	custom (within acceptable range)	custom (within acceptable range)



NOTE Narrow and heavy media can cause the printer to print more slowly.

Guidelines for using media

HP LaserJet printers produce documents that have excellent print quality. They can print on a variety of media types, such as paper (including up to 100% recycled fiber content paper), envelopes, labels, transparencies, and custom-sized media.

Paper and transparencies

Paper must be of good quality and free of cuts, nicks, tears, spots, loose particles, dust, wrinkles, holes, and curled or bent edges. Check the label on the paper package for details about the type of paper (such as bond or recycled).

Some paper causes print-quality problems, jamming, or damage to the printer.



NOTE Do not use letterhead that is printed with low-temperature inks, such as those used in some types of thermography, raised letterhead, or colored paper or preprinted forms that use inks incompatible with the printer temperature, which is 200°C (392°F) for 0.1 second.

Transparencies must be able to withstand 200°C (392°F), the maximum print temperature.

Common media problems table

Symptom	Problem with paper	Solution
Poor print quality or toner adhesion, or problems with feeding	Too moist, too rough, too smooth, embossed, or from a faulty paper lot The correct media type is not selected in the Printer Properties dialog box.	Try another kind of paper that is between 100 and 250 Sheffield and has 4% to 6% moisture content. Select the correct media type. See Setting media types on page 22 .
Dropouts, jamming, or curl	Stored improperly	Store paper flat in its moisture-proof wrapping.
Increased gray background shading	Might be too heavy	Use lighter paper.
Excessive curl, or problems with feeding	Too moist, wrong grain direction, or short-grain construction	Use long-grain paper or change the media type to light.
Jamming, or damage to printer	Cutouts or perforations Damaged media	Do not use paper that has cutouts or perforations. Do not use media that has been previously run through a printer or copier.
Problems with feeding	Ragged edges	Use good-quality paper.
Moisture on the trailing edge of the paper	Too moist (media is steaming when it exits the printer)	Store paper in a low humidity area or air tight container or change the media type to light.

Labels

When selecting labels, consider the following factors:

- **Adhesives:** The adhesive material should be stable at 200°C (392°F), the printer's maximum temperature.
- **Arrangement:** Only use labels with no exposed backing between them. Labels can peel off sheets that have spaces between the labels, causing serious jams.
- **Curl:** Before printing, labels must lie flat with no more than 13 mm (0.5 inch) of curl in any direction.
- **Condition:** Do not use labels with wrinkles, bubbles, or other indications of separation. Never use a sheet of labels that has already been sent through the printer.

Envelopes

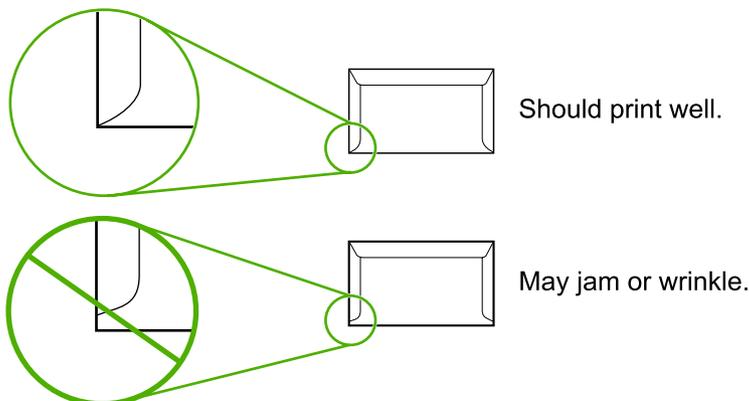
Envelope construction is critical. Envelope fold lines can vary considerably, not only between manufacturers but also within a box from the same manufacturer. Successful printing on envelopes depends on the quality of the envelopes. When selecting envelopes, consider the following factors:

- **Weight:** The weight of the envelope paper should not exceed 105 g/m² (28 lb), or jamming might result.
- **Construction:** Before printing, envelopes should lie flat with less than 6 mm (0.25 inch) curl and should not contain air. Envelopes that trap air may cause problems.
- **Condition:** Make sure that the envelopes are not wrinkled, nicked, or otherwise damaged.
- **Sizes:** From 90 x 160 mm (3.5 x 6.3 inches) to 178 x 254 mm (7 x 10 inches).

Store envelopes flat. If air is trapped in an envelope, creating an air bubble, the envelope might wrinkle during printing.

Envelopes with double-side seams

An envelope with double-side-seam construction (vertical seams at both ends of the envelope rather than diagonal seams) is more likely to wrinkle. Make sure the seam extends all the way to the corner of the envelope as shown in top figure of the following illustration:



Envelopes with adhesive strips or flaps

Envelopes with a peel-off adhesive strip or with more than one flap that folds over to seal must use adhesives compatible with the heat and pressure in the printer: 200°C (392°F). The extra flaps and strips might cause wrinkling, creasing, or jams.

Card stock and heavy media

For optimum performance, do not use paper heavier than 157-g/m² (42-lb). Paper that is too heavy might cause misfeeds, stacking problems, jams, poor toner fusing, poor print quality, or excessive mechanical wear.

Card-stock construction

- **Smoothness:** 135- to 157-g/m² (36- to 42-lb) card stock should have a smoothness rating of 100 to 180 Sheffield. 60- to 135-g/m² (16- to 36-lb) card stock should have a smoothness rating of 100 to 250 Sheffield.
- **Construction:** Card stock should lie flat with less than 5 mm (0.2 inch) of curl.
- **Condition:** Make sure that the card stock is not wrinkled, nicked, or otherwise damaged.
- **Sizes:** Only use card stock within the following size ranges:
 - **Minimum:** 76 x 127 mm (3 x 5 inches)
 - **Maximum:** 216 x 356 mm (8.5 x 14 inches)

Card-stock guidelines

- Set margins at least 2 mm (0.08 inch) away from the edges.

Loading media

Loading media in the HP LaserJet 1018 printer is simple and straightforward.

This section describes loading bulk media.

Main input tray

The main input tray holds up to 150 sheets of 75-g/m² (20-lb) paper or a 25 mm (0.98 inch) stack of heavier media. Load media with the top forward and the side to be printed on facing up. To prevent jams and skew, always adjust the side and rear media guides.

Priority feed slot

Use the priority feed slot to feed a single sheet of a recommended media for manual feeding and special operations. It can hold up to ten pages of 75-g/m² (20-lb) paper, but is best used for feeding one sheet at a time of paper, heavier paper (163-g/m² [42-lb]), or card stock, or a single envelope or transparency. Load media with the top forward and the side to be printed facing up. To prevent jams and skew, always adjust the side media guides.

If you try to print on media that is wrinkled, folded, or damaged in any way, a jam might occur. See [Jams on page 90](#).



NOTE When you add new media, make sure that you remove all of the media from the input tray and straighten the stack of new media. This helps prevent multiple sheets of media from feeding through the printer at one time, and therefore reduces jams.

Specific types of media

- **Transparencies and labels:** Load transparencies and labels with the top forward and the side to be printed facing up. See the user guide for more information.
- **Envelopes:** Load envelopes with the narrow, stamp side forward and the side to be printed facing up. See the user guide for more information.
- **Letterhead or preprinted forms:** Load with the top forward and the side to be printed facing up. See the user guide for more information.
- **Cards and custom-sized media:** Load with the narrow side forward and the side to be printed facing up. See the user guide for more information.

Setting media types

Use the procedure in this section to select the correct type of media for the print job. An incorrect media type setting might cause image-quality problems.

Set the media type

1. Open the **Printer Properties** dialog box.
2. Click **Printer Preferences**.
3. Select the correct media type from the **Type Is** drop down menu.
4. Click **OK** to close the **Printer Preferences** dialog box.
5. Click **OK** to close the **Printer Properties** dialog box.