

Inside a Toner Cartridge

Quality in every component

1. Toner Hopper

The small container built into the removable casing, which houses the toner that is applied to the page.



2. Seal

Removable protective strip for preventing toner from spilling prior to installation used in HP and many other cartridges, but not in most Lexmark cartridges.



3. Doctor Blade

Ensures the precise amount of toner is always distributed to the Developer or Magnetic Roller.



4. Developer or Magnetic Roller

Transfers toner to the OPC Drum. Also called a Magnetic Roller in systems using magnetic toner where a magnet attracts toner (containing magnetite) for transfer to the drum.



5. Waste Bin

Collects the residual toner wiped from the OPC Drum because it has been charged and can no longer be used.



6. Wiper Blade

Stays in constant contact with drum and wipes away any residual toner applied to the page.



7. Primary Charge Roller (PCR)

Conditions or charges the OPC prior to laser-writing the image. This is accomplished by applying a uniform negative charge. The PCR also discharges or "erases" the laser image.



8. Organic Photo-Conductor (OPC)

A multi-film layered aluminum drum, precision ground to extremely close tolerances to ensure the optimum circular surface. Because the quality of the surface of the OPC Drum is the most reliable way of ensuring the overall quality of the cartridge, we use only new OPC Drums.



9. Drum Shutter

Protects the OPC Drum from exposure to light while the cartridge is out of the machine and retracts in the printer.



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