

Texas Department of Transportation's (TxDOT) Experience Using Remanufactured Toner Cartridges

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History

- Texas Department of Transportation (TxDOT)
 - ▶ 15,000 employees statewide
 - 300 facilities in 254 counties
- ▶ In 1994, TxDOT established policy to buy recycled, remanufactured, and environmentally sensitive products.
- ▶ Designated Recycling Staff to administer TxDOT's Recycling and Recycled Products Program.







Specification Background

- ▶ Establish a benchmark for quality remanufactured laser printer toner cartridges.
- ▶ Develop guidelines for manufacturing, employee technical certification training, and packaging guidelines for remanufactured laser printer toner cartridges with local, state, and national industry laser printer toner cartridge experts.
- Develop service details and vendor responsibilities for printer & cartridge issues.







Key Features

- ▶ Requires cartridges to meet industry standards adopted by the Standardized Test Methods Committee (STMC).
- ▶ Requires vendor to be STMC certified and employ trained STMC technicians.
- Defines minimum remanufacturing cartridge requirements.
- Requires 3rd party quality testing per ASTM, ANSI
 ISTA standards.







Key Features

- Imaging Products Laboratory
 - Rochester Institute of Technology www.reman.rit.edu
- Inspect company manufacturing facilities.
- Establish one-year cartridge warranty.
- Require vendor to repair printers damaged by defective cartridges by providing factory-trained service technician.
 - Benefit Average 50% in savings.







Cartridge Issues

- ▶ OEM manufacturers have placed smart chips on new cartridge models to make it harder to remanufacture.
 - Warehousing climate control.
 - Cartridge availability.
 - Cartridge performance.
 - Contract documentation.
 - Recycling empty cartridges.







What We Have Learned

- Strong cartridge packaging to prevent damage during shipping.
 - Proper company box labeling.
 - Prevent overstocking by on-time delivery.
- ▶ Large print jobs producing more copies than printer can handle.
 - Printer warranty issues.
 - Establish good communication.







Vendor Reaction

- Contracts and specifications create an equal "bidding" process.
- ▶ Contracts create a professional long-term relationship and are easier to handle.
- Providing technical service gives more value to clients.
- Clear communication points are created between clients and vendors.
- Satisfied customers because vendor will handle cartridge problems.







Why Continue?

- TxDOT strives to be a leader in all phases of reducing waste, reusing products and roadway materials, and recycling end-of-life products.
 - Bottom Line:
 - Remanufactured toner cartridges work
 - Competitive pricing
 - Saves money
 - Saves resources & the environment
 - Offers same printing reliability as OEM cartridges









www.txdot.gov/recycling







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