



Print Responsibly.

TRU[̄]COLOR

Producing High Quality Remanufactured Imaging Supplies Since 1996

Empty Core Selection-

Your finished product can only be as good as the foundation you start with. That is why IPW sources only OEM virgin cores to start with. That way we know exactly what we are starting with, to make our product as consistent as possible. On the quality front, Non-virgin cores and aftermarket new plastics have long been proven to be very unreliable and inconsistent.

Not All Virgin Cores are the same-

Following the initial release of a product, the Original Equipment Manufacturers (OEM's) are always continuing to improve upon their original designs. Throughout our years of experience, we often discover these engineering changes made by the OEM's during our core inspection. These changes ultimately improve our product as well. When these changes are discovered, we then will only specify a certain date code of virgin empty cores from our empty core suppliers.

Disassembly and Inspection-

At the beginning of our production process, each empty core is carefully inspected by our highly trained team members for overall condition as well as date code compliance. Each individual internal component is carefully removed from the empty core and placed in a corresponding staging area to be transported to either our Component Refurbishing Department or recycling. On average we reuse 96% of the OEM internal components. IPW has found that the OEM components hold tighter tolerances and provide a much more consistent result over the use of aftermarket components. Although IPW relies on many of the OEM components, IPW replaces 100% of the photoconductive drums and chips in all our products.

Internal OEM components that are to be reused are robotically transported to our Component Refurbishing Department where they undergo a proprietary treatment process before they are again robotically transported to our assembly Department for assembly.

Sealing and Refilling-

After all individual components have been removed from the empty core, it is carefully cleaned with the use of compressed air. The clean cartridge then moves down a conveyer to have a new pull seal installed followed by the application of a lot code label. Using precision toner dispensing equipment, the cartridge is then filled with toner to a specified weight. Filling with this precision and consistency as well as continued life testing ensures that our product will always meet yield requirements.

IPW only sources and qualifies raw toner from the toner manufactures direct. This permits for better quality control and traceability over sourcing from a distributor. Each cartridge type uses a specific toner that was stringently qualified for use in that model.

Assembly and Testing-

IPW uses the world renowned Toyota Production System (TPS) assembly methods throughout our production facility. TPS assembly methods drive excellent quality, productivity, good communication, continuous improvement, and great team dynamics. Depending on the product being produced, each assembly cell is comprised of 8-10 team members working at 8-10 separate workstations designed around a very specific set of standardized work instructions.

The assembly starts with the first station QC inspecting all components and filled toner hoppers prior to starting their work. After the first assembly station's work is completed, they QC check their own work prior to passing the product to the next station.

The next station will first QC check the previous station's work, complete their work, and QC check their own work prior to passing the product to the next station. This process continues until the product is completed and ready for final testing in a printer.

After assembly is completed, each cartridge is then put into a printer where a series of test prints are printed to confirm that the cartridge meets IPW's print quality standards, as well as overall fit and function.

From each production run, cartridges are pulled at random from this testing area and taken to IPW's Quality Lab where they undergo a series of different tests. This would include a visual inspection, 5% ISO standard life test or a series of other proprietary tests that IPW has designed to expose any possible quality issue or concern.

Final Product-

When, and only when a cartridge passes all QC checks and tests it is ready to be shipped to our customers. Image Projections West takes great pride in being able to produce a high-quality USA made product that our customers can be proud to offer.

Additionally-

- IPW's Manufacturing and Quality processes were developed early due to our origin as a manufacturer for OEMs.
- IPW is approved by the EPA as supplier of remanufactured toners under the Comprehensive Procurement Guideline

(CPG). www.epa.gov/epawaste/consERVE/tools/cpg

- All Products TAA Compliant
- STMC Testing Compliant
- CGSB {Canadian General Standards Board} Certified