



Brunk Industries, Inc.

Future Sustainability Initiatives

Category	Future Initiatives
Manufacturing Process	
Multi-faceted advanced manufacturing processes.	In the tool room of the future, robotics are planned to maintain productivity in off hours and replace the manual operations currently used.
Machine time efficiency efforts, motor usage efficiency.	In 2012, we will implement a second more efficient Crest wash system. Crest type cleaning systems will be reviewed for future applications as capacity permits.
E-Based (paperless) shipping and documentation systems.	We are investigating “Thin-Client” servers are the workstations. This will allow for paperless access to process information such as instructions, SPC, training requirements, routing, etc.



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Administrative Process Initiatives	
Green administrative controls like quick-time MSDS access.	The Thin-Client server will give paperless access to the operators for MSDS information at their work station.
Environmentally friendly use and reuse/recycling of fluids.	<p>We will review the feasibility of using green processing lubricants in the stamping and secondary processes as they are available.</p> <p>We will investigate an oil reuse program for certain dies which will require a collection and filtration system.</p>
Use of organics versus synthetics, chip segregation and recycling efforts.	Grinding fluids are synthetics. We have an initiative to investigate different types of eco-friendly fluids as well as fluids that will increase the grinding fluid life.
Reusable (opposed to single use) shipping and packaging materials.	<p>We have an ongoing initiative to replace current packaging with packaging that will support recyclable trays for internal processes and for use with external sub-tier suppliers.</p> <p>We are engaged in a program of the standardization of packaging footprints. This will allow Brunk to reduce the amount of packaging materials required. This standard carton will fit the tray footprint reducing the need for excessive filler materials to contain the trays in position.</p> <p>Our existing packaging method in many instances requires a vacuum bag to contain the components in the tray. We have internal and external rejects caused by the loss of vacuum resulting in components falling out of pockets. We are investigating an error proof tray with a self-contained lid. This lid removes the need for vacuum bag and potential errors made by the operator during the vacuum sealing process. This reduces the amount packaging materials required and the loss of materials at the time of resealing the vacuum bag.</p> <p>We have an initiative to investigate biodegradable labeling.</p>
1. Biodegradable gloves and other policies that reduce our carbon footprint.	We continue to investigate biodegradable non-latex gloves suitable for our Medical applications.



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Physical Plant Initiatives	
High-efficiency and low amperage HVAC systems.	As units fail they are upgraded to High-efficiency and low amperage HVAC systems.
Installation of low flow faucets and showers.	All new construction will include low flow faucets.
Upgraded wall, floor and ceiling insulation.	We are proposing to enhance the packaging storage area in the mezzanine to improve the cleanliness of the packaging materials. This enhancement will include a wall to control the air flow into the storage area reducing contaminants.
Tree and shrub planting.	Future construction will be done with an emphasis on the preservation of our natural landscape.
Use of environmentally friendly solvents and cleaning supplies.	We have an initiative that requires the selection of environmentally friendly solvents if they are available and they are capable for the process.
Use of facility LED and florescent lighting;	A plan is in place to replace the light fixtures in the tool maintenance department by upgrading to new style Orion Light fixtures.