



# Python Separator I Python Separator II



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This unique machine ends forever the costly labor of manually separating liquid products from the containers for disposal or recycling. The Python Separator I opens, empties, and compacts the containers for disposal or recycling while effectively transporting the contents to a storage tank for removal.

- Pays for itself quickly.
- Compact in size weighing approximately 650 lbs.
- Reduces expensive disposal fees.
- Will separate 231 gallons of liquid from containers in 23 minutes.
- Compacts containers
- Stainless steel construction.
- One man operation of machine.
- Also available in an easier to clean model (Python Separator II)

**For further information please call or write:  
McClaren Machine & Tool, LLC**

This machine is the original patented Python Separator, it's construction and method of operation are patented to assure our continued support.

**U.S.A. PATENT #4,852,817 • CANADA PATENT #1,320,476**



## Present Methods of Handling Dumping

**The economic justification for the Python Separator will require estimating the costs of present methods of handling the dump product.**

### **1. Farmer picking up cased milk and transporting to animal feeding operation:**

- A. In plant labor handling
- B. Lost and dirty cases
- C. Increased cost for 100-400 case float
- D. Potential hazard of farmer bringing harmful bacteria into plant
- E. Cost of milk storage area or trucks required
- F. Odors, flies, rodents
- G. Possible use of refrigeration to control odors caused from storing milk at plant
- H. Usually little or no return revenue to dairy for dump product
- I. Sanitary and health regulations of storing milk and cases going to feed lots

### **2. Hauling to landfill:**

Includes all the problems in Item #1 plus


- A. Additional investment in truck or dumpster or hauling to dump
- B. Cost of depositing product at landfill

**This cost can be tremendous and many landfills are refusing this type of material at the dump site.**

### **3. Breaking cartons and pouring down sewer:**

- A. Labor intensive, costly
- B. Messy, dirty work area
- C. Cost of disposal of un-crushed jugs and cartons
- D. Environmental or governmental regulations prohibiting this practice
- E. Sanitary laws prohibiting

### **4. Other machine or mechanical methods:**

- A. More labor intensive
  - B. Difficulty keeping machine and area clean
  - C. Required space for stationary equipment
  - D. Higher horsepower requirements
  - E. Overall lower efficiency of machine and operation
  - F. Greater danger to machine operator with other types of equipment
  - G. Usually higher in cost
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## Facts Concerning Machines

### Python Separator I

1. All heavy stainless steel (304) construction. The original machine has been in operation since 1984 without a major break down. It has separated approximately 4,000 gallons weekly. This machine, its construction and method of operation is patented.
2. Low energy requirements, 2 HP 3 Phase motor. Machine is Standard with 220/440 volt.
3. All grab and pinch points effectively guarded.
4. Splash curtains control splattering milk and are easily removed for cleaning and scrubbing as needed.
5. Machine comes with 20' cord ready for power hookup.
6. Machine stops when lid is opened.
7. Intake opening is designed so a case cannot be inserted in the machine.
8. The only moving part, the compression auger, is slow moving and nearly impossible to be reached through the entry opening.
9. Machine is approximately 41 inches wide, 94 inches long and 53 inches tall.
10. Heavy casters are utilized to roll machine to storage and cleanup.
11. Receiver tank is constructed of polished stainless steel with a 2 inch dairy fitting on drain end.
12. Receiver tank contains a removable strainer basket constructed of expanded stainless steel mesh. Strainer basket catches small pieces of plastic and paper that occasionally pass through with product.
13. The discharge and compaction chamber is equipped with a pneumatic cylinder to maintain a constant pressure on containers being discharged. This cylinder is furnished with a regulator and gauge to obtain the desired compaction.
14. Electrical controls are contained in a 4X rated enclosure. Controls include START/STOP buttons with pilot light, two large safety shut off buttons, and automatic shut off if hopper is opened.
15. Very few parts require OEM purchase. Most components are off the shelf.
16. The machine warranty is one year from receiving the machine and limited to machine only. All purchase items including motor, drive unit, bearings, gears, chain, electrical controls and equipment will be warranted only to the extent of the manufacturer who produced and sold them. **Warranty voided if it is determined that the machine was subjected to severe misuse and abuse. Frozen product is not recommended.**

### Python Separator II (Designed for easier cleaning)

1. All above listed points apply also to Python Separator II.
2. The Python II has a drive shaft/auger assembly. The welds are continuous and polished.
3. The drive shaft requires two pillow block bearings.
4. The reinforcement rods located in the barrel are continuous and polished.
5. There are slight differences in the construction of the two models also.

## The Python Separator is "Landfill Friendly"

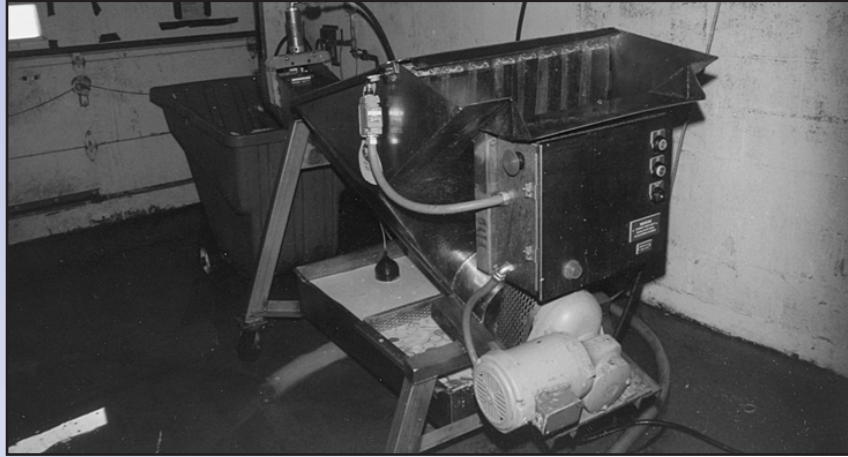


Photo taken in an Illinois dairy.

By separating liquid from container and compacting the container, the plastic can be recycled, thus reducing volume and disposal costs.

### Overall Benefits of the Python Separator

1. Machine has good capacity, separating products at 10 gallons per minute. One test performed separated 231 gallons in 23 minutes.
2. Product disposal can be accomplished as the cases are unloaded from truck routes.
3. Product disposal can be done in less time than transporting and stacking the dump for future disposal.
4. Work area can easily be cleaned and scrubbed daily.
5. Plastic can be reclaimed and sold, reducing landfill costs.
6. The dump milk is valuable. 800-1,000 gallons a day can supply the food nutrition needed to finish 450 feeder pigs. Product can also be dried for use in animal feed concentrates.
7. Paper is dry enough to incinerate or put in landfill. Tight compaction and volume to weight ratio will reduce landfill costs.
8. Machine is small and portable and can be used in an adjacent building or plant wing whenever sanitation regulations do not permit dump milk to enter plant. An obsolete reefer trailer could also be used to accommodate the dump milk separation operation. A drain, hot and cold water and electricity could be connected to the trailer.
9. No lost or dirty cases, eliminating customer complaints when the cases are reused and normal washing leaves them dirty.
10. Possibility of harmful bacterial entering the plant from shoes and cases is eliminated.
11. The 100-400 required case float is not needed for the dump milk.
12. The overall safety in operating the machine is ideal. There are no knives, flails, belts, exposed gears, hydraulic plungers or other mechanisms used on the machine which could cause injury.
13. Another extremely important benefit is that the truck unloader, machine operator, can better monitor the amount of products returned from individual trailer routes.