



This CP-3002, three cubic yard capacity stationary compactor, is one of two machines used at Balimoy to collect cutting fluids from metal turnings and to compact the turnings for transportation to a recycling facility.

## Metal Turning Compaction with Fluid Collection

Balimoy/DSE, Inc. is a company in Florida that produces ammunition. Like most metal working facilities, Balimoy produces an overwhelming quantity of scrap metal chips and turnings that are saturated with cutting fluids.

Balimoy's production department knows that this scrap steel, aluminum, and copper is a valuable commodity in the recycling market and sells the metal by the container load to a local scrap metal recycler. However, the cutting fluids from production that are mixed in with the metal turnings significantly reduce the value of the scrap.

Because the fluids are a contaminant, a large percentage would have to be removed to improve the asking price for the metal scrap. Current practices to remove fluid included the use of a centrifuge system, or gravity for drainage. A centrifuge system works well by spinning the fluids out of the metal; however, these systems are expensive, high maintenance, and labor intensive. If the scrap metal is allowed to sit in a pile or a container, a significant percentage of the fluids will drain out. This practice however, does not allow for efficient fluid collection and faces a number of environmental ground contamination problems.

In either case, the scrap is usually loaded in an open top container for pick-up by the recycling

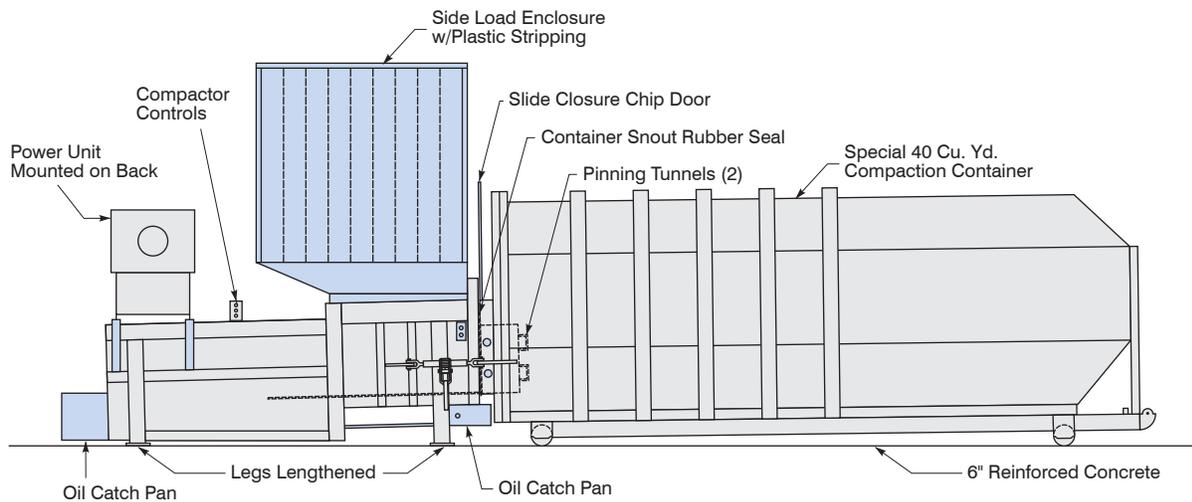
company. This practice poses additional contamination problems from rain water. Water in the container will increase the tare weight and reduce the amount of scrap metal that can physically be transported.

When Balimoy turned to SP Industries' dealer, Morrow Equipment, to look at its operation and contamination problems, Morrow approached the problem from the compaction angle. The scrap, steel and aluminum chips and turnings, can be compacted into a closed container to improve tare weights and

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Metal turnings are loaded in the compaction chamber, then packed into the container. Fluid drains from the turnings during compaction and while held in the container prior to transportation.



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reduce contamination from rain.

The real problem was from the cutting fluids mixed in with the scrap. SP Industries modified a CP-3002 industrial compactor and 40 cubic yard capacity compaction container to improve the run-off of fluids and devised a closed collection system to contain the fluids for reclamation.

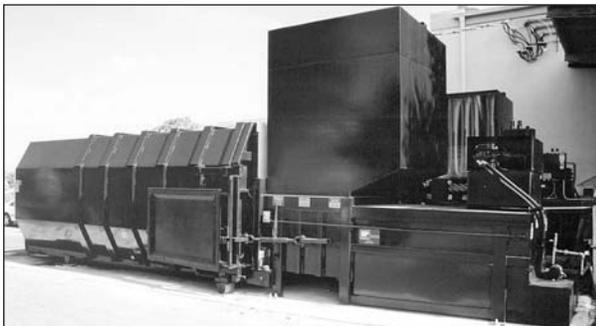
The result was a cleaner, closed system that eliminated environmental ground contamination caused by the cutting fluids, and eliminated contamination of the material and cutting fluid from rain.

Without the rain contamination and with the collection of the cutting oil from the material, the value of the scrap greatly increased and Balimoy was able to negotiate a higher price per pound. The cutting oil that is reclaimed from the system is re-used in production, which in turn reduces production material costs. In addition, more material is compacted into the container to increase the tare weight and reduce the number of times the container has to be hauled.



### System Information

- Compactor: CP-3002
- Capacity: 3 Cubic Yards
- Cylinders: (2) 6" Bore x 4.5" Rod
- Compaction Force: 101,800 Lbs. Maximum
- Cycle Time: 52 Seconds, Continuous Under Pressure
- Oil Extraction Options:
  - Bar Grating for Metal Clip Compaction
  - Closed Collection System and Tank for Fluids
  - Rear Sloped Floor
  - Pinning Boost Override System w/Pinning Tunnels for Clearing the Compaction Chamber and Retaining the Compacted Load
- Container: C-2240-110-OC
- Capacity: 40 Cubic Yards
- Force Rating: 110,00 Lbs.
- Oil Extraction Options:
  - Raised Compaction Opening for Increased Sump Capacity
  - Full Door Seal w/Adjustable Hinges
  - Sliding Closure Door for Compactor Opening
  - Pinning Tunnels w/Cables
  - Fluid Collection System



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