

The Humpster Dumpster

The Humpster Dumpster is a concept device in need of additional development. The machine is to be able to lift a loaded wheelbarrow, up to 350 lbs, and empty the loaded wheelbarrow over the top of, and into, a roll off dumpster.

The impetus for the Humpster Dumpster is inspired from using roll off dumpsters in the typical manner, i.e., open the dumpster door, build a ramp into the dumpster with a 2 x 10 board, roll wheelbarrow in and dump. Once the floor of the dumpster is covered with debris, dumping of wheelbarrow is no longer possible and must be off loaded by hand. The Humpster Dumpster eliminates this problem and saves tremendous amounts of time.

Total cycle time should take no longer than 10-12 seconds to complete, including a 2-3 second delay for safety before the sequence begins. It is expected that the system will utilize a hydraulic lift system, and be adjustable to accommodate for varying angles, heights, terrain, and site conditions.

The sponsor has invested time and materials into the development of this machine, and will interact with the team to provide those details at appropriate times.