

# DRAFT

## Technical Safety Data Sheet

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**Equipment Name:** Grapple Crane (American Hawk H1150TL Bulk Waste Crane)

**Manufacturer:** Automated Waste Equipment

**Address**

P.O. Box 5757  
Trenton, NJ 08638

**Telephone Number:** (609) 588-5400

**Fax Number:** (609) 588-4104

**Date Prepared:** February 26, 1998



**Equipment Description:** This equipment is an external truck-mounted grapple (clamshell). At the activity visited, it was used to pick up wood material and load it into a tub grinder. The crane is powered by a hydraulic pump which is driven by the truck engine. Approximate equipment dimensions of unextended crane are 15' high x 15' long x 6' wide.

### Precautions for Safe Handling and Use:

#### Operation

Make sure the crane is on firm level ground before operating. Do not attempt to transfer a load if the outriggers are unable to make solid contact with the ground.

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If the crane is used with the tub grinder, remember that the grinder can eject pieces of wood with enough force to travel up to 70 feet from the grinder. All personnel other than the clamshell operator should remain at least 100 feet from the grinder during operation.

While operating the Grapple Crane (GC) and/or standing on the GC platform, do not go beyond the control area of the platform.

Maintain a distance in between the boom and power lines of at least 50 feet during operation.

Be sure to disengage the gear drive on the crane before moving the truck.

Before attempting to operate or perform maintenance on this equipment, read the American Hawk Bulk Waste Cranes Maintenance and Repair Manual and Crane Safety Manual.

Wear appropriate personal protective equipment (PPE). See control measures section for details.

### **Maintenance**

Shut truck engine off, remove key, and wait for all movement to stop prior to performing any maintenance.

Tighten or replace any loose or cracked bolts, chains, hoses or connections

Fluid leaks or overheating of the pump must not be checked by placing a hand directly on the components. Use a piece of cardboard to check for leaks. Heat can be detected near a component without physically touching it.

Relieve all pressure in the hydraulic system prior to performing any maintenance on the system.

### **Health Hazard Data**

**Chemical Hazard:** None observed

**Physical Hazard:** If used with the grinder, note that the grinder sometimes can eject pieces of wood with enough force to travel up to 70 feet from the grinder. The boom swivels using a gear near the operator's head does not have a guard or a warning sign to protect the operator from coming into contact with it.

**Biological Hazard:** None observed

**Ergonomic Hazard:** None observed

**Environmental Hazard:** None observed

### **Control Measures**

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**Personal Protective Equipment Requirements:** A hard hat and safety glasses should be worn while operating this equipment.

**Ventilation Requirements:** This equipment should only be operated outdoors.

**Posting Requirements:** Warning signs should be posted for PPE requirements and to keep unauthorized personnel out of the operating area.