

STRONGARM

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RISK ASSESSMENT ELECTROHYDRAULIC BIN LIFTER



HAZARD:

Crush and pinch points:

1. The bulk of this machine consists of one moving part, the swing frame; and one stationary part, the main frame. The swing frame rests on the main frame when in the closed position. When the swing frame is returning from its upper tipping position, the swing frame passes between the main frame bracing members, creating possible crush points:

- Avoid at all times holding onto the main frame whilst the machine is in operation:

2. The MGB (Mobile Garbage Bin) release handle, if rotated too far forward, it encroaches the product guide chute:

- Only minimal distance is required to release the MGB from the catch mechanism:

3a The swing frame when raised and lowered operates in an outward arc extending beyond the base perimeter of the machine:

- Never stand in front of or under the swing frame at any time:
- The operator must be aware of any personnel within the area of the machines operating parameters:

3b The swing frame ascent and descent:

- These two processes take approximately the same time plus or minus 3 seconds; in the event that the MGB does not empty completely the descent can be much quicker relative to how much rubbish remains in the MGB and its mass: Therefore never assume it has a given descent time:

4 The bulk bin catches that hook over the skip can move suddenly with the smallest movement of the machine:

- Always use their handle to attach or remove them from the skip:

HAZARD:

Electrical:

5. These machines operates on 240 Volt AC mains power and thus all precautions must be adhered too when operating or setting up the machine:

- Ensure that power is of good continuous uninterrupted supply:
- Ensure that power supply is fitted with safety switch:
- Ensure that any extension lead used is in good condition and electrically sound:
- Never use multiple extension leads:
 - *Try to bring machine to power more so than power to machine:*
- Machine should be as close as practicable to power supply:
- Ensure that the control pendant and its lead are in good condition:
- If machine is setup in an open uncovered area, never operate machine if raining or excessive damp conditions:

HAZARD:

Setting up machine:

6. Machines foot print is of a size to allow access through standard doorways. Thus requiring a flat even firm surface to stand on for secure operation.

- Do not rely on the bulk bin catches to secure machine in an environment contradictive to above:

7. The machine is designed to sit flush to bulk bins (Skips) this creates easy overbalance on its rear side (Castors)

- When manoeuvring the machine always push the mainframe from the castor side, only from the front when presenting to the bulk bin (Skip) Taking extreme care when doing so.

8. Bulk bin catches are designed to travel up and down their guides with the rocking motion of the machine as the swing frame is raised and lowered:

- This movement is the direct result of the inertial forces applied from the weight of the load and framework. This is not restrained any further as this will put undue stress on other components.

9. Machine swing frame has an arc that extends beyond the footprint at rest and the free standing height.

- Check for clearance in both the front and overhead with an empty wheelie bin (MGB) attached prior to putting into service. Making particular care of overhead lights and any cabling hanging from roof structure. Allow plenty of excess room in front of machine.
- The area should be totally void of any obstructions or obstacles: There should be a zero tolerance to clutter:

10. Bulk bin catches are basically failsafe in their attachment to the bulk bin (Skip)

- Be aware that bulk bin (Skip) with rubbish content prior to attachment may hinder the depth that they clasp the bulk bin (Skip) Check before operating.

See Notes Under Electrical:

HAZARD

MGB securing Chain

12. The chain that secures the bottom of the MGB:

- When there is no MGB on the bin lifter the safety chain will hang loose from its attachment points:
Never use the bin lifter when there is no bin attached as the chain can flail about and become entangled within the machines framework causing damage or come in contact with the operator:
- Never attached the safety lok end of the chain to any point other than its intended anchor point:
- Never entwine the chain around the framework of the machine:

HAZARD:

Environment:

12. The environment is unpredictable and should be constantly assessed for changes in both the immediate area and the weather.

- These machines are inherently less stable when swing frame is at its full extension:
- Operating when strong winds are present or on days with strong wind gusts should be avoided.

See notes under setting up machine item 9

See notes under Electrical:

These machines have been available and in service for many years and many areas of concern have been engineered out of the original design. This although an advantage to the operator in performing the safe execution of his/her duties does not preclude them from exercising due care and applying common sense in the operation of the machinery:

This risk assessment is a generalization to assist in the safe setup and operation of the machinery as noted: This document has not taken into account any Consumer Company policies: Any conflict it may have with Consumer Company is purely accidental.

