

Hazard Register



Type	DELIVERY ROBOT	Location	
Make	Pudu	Sale Number	5053593
Model	Bellabot	Lot Number	1
Serial Number			

This item has not been tested for electrical safety.

ID	Hazard Type	Hazard Description
138322.1	ENTANGLEMENT.	HAIR, CLOTHING, GLOVES, JEWELLERY OR OTHER MATERIALS OR BODY PARTS MAY BECOME ENTANGLED WITH MOVING PARTS OF THE ROBOT IN MOTION SHOULD OPERATOR OR USERS GET TO CLOSE.
138322.2	CRUSHING.	FINGERS, HANDS AND OTHER BODY PARTS CAN BE CRUSHED DUE TO THE UNCONTROLLED OR UNEXPECTED MOVEMENT OF THE ROBOT; LACK OF CAPACITY FOR THE ROBOT TO BE SLOWED, STOPPED OR IMMOBILISED; COMING IN CONTACT WITH THE MOVING PARTS OF THE ROBOT DURING OPERATION, MAINTENANCE OR USE; OR BEING TRAPPED BETWEEN THE ROBOT AND A FIXED STRUCTURE.
138322.3	CUTTING, STABBING OR PUNCHING	FINGERS, HANDS, ARMS AND OTHER BODY PARTS CAN BE CUT, STABBED OR PUNCHED DUE TO COMING IN CONTACT WITH MOVING PARTS OF THE ROBOT DURING OPERATION, MAINTENANCE, USE AND REPAIR.
138322.4	SHEARING.	FINGERS, HANDS AND OTHER BODY PARTS CAN BE SHEARED BETWEEN TWO PARTS OF THE AMUSEMENT RIDE/STRUCTURE IF THE USERS OR OPERATORS ARE ALLOWED TO GET TO CLOSE TO THE MOVING PARTS OF THE AMUSEMENT RIDE/STRUCTURE.
138322.6	STRIKING.	THE OPERATOR AND/OR BYSTANDERS MAY BE STRUCK BY MOVING OBJECTS DUE TO THE UNEXPECTED OR UNCONTROLLED MOVEMENT OF THE ROBOT.
138322.8	ELECTRICAL.	OPERATORS, USES, BYSTANDERS AND MAINTENANCE PERSONNEL CAN BE INJURED BY ELECTRICAL SHOCK OR BURNT DUE TO THE OVERLOAD OF ELECTRICAL CIRCUITS; DAMAGED OR POORLY MAINTAINED ELECTRICAL EQUIPMENT, CABLES AND LEADS; DAMAGED ELECTRICAL SWITCHES, SOCKETS AND CONTROLS; WATER NEAR ELECTRICAL EQUIPMENT; AND LACK OF ISOLATION OR SAFE OPERATION PROCEDURES.
138322.10	SLIP TRIP FALL	OPERATORS, USERS AND BYSTANDERS ON OR IN THE VICINITY OF THE ROBOT CAN SLIP, TRIP AND/OR FALL DUE TO UNEVEN OR SLIPPERY WORK SURFACES; POOR HOUSEKEEPING INCLUDING DIRT AND DUST ON THE ROBOT AND SPILLAGES NOT BEING CLEANED UP; AND OBSTACLES BEING PLACED OR STORED IN THE VICINITY OF THE AMUSEMENT RIDE/STRUCTURE.
138322.26	AUTOMATIC & REMOTELY OPERATED MACHINERY	OPERATORS, USES AND BYSTANDERS CAN BE INJURED DUE TO THE ROBOT TARTING AUTOMATICALLY AND/OR BEING REMOTELY OPERATED AND THE LACK OF ISOLATION AND SAFE OPERATION PROCEDURES.
138322.27	PLANT OPERATION.	THE ROBOT SHOULD ONLY BE OPERATED BY COMPETENT, SKILLED AND TRAINED PERSONAL. ALL OPERATOR CONTROLS SHOULD BE FUNCTIONING CORRECTLY AND THIS AMUSEMENT RIDE/STRUCTURE SHOULD NOT BE OPERATED WITHOUT ALL GUARDING IN PLACE AND ALL SAFETY SYSTEMS FUNCTIONING CORRECTLY. PEOPLE CAN BE INJURED

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DUE TO THE FAILURE TO FOLLOW AND LACK OF ISOLATION AND SAFE WORK PROCEDURES.

138322.28 MAINTENANCE.

THE ROBOT SHOULD ONLY BE MAINTAINED BY COMPETENT, SKILLED AND TRAINED PERSONNEL AND ALL ENERGY SOURCES ASSOCIATED WITH THE ROBOT TO BE ISOLATED AND DE ENERGISED WHILE AMUSEMENT RIDE/STRUCTURE IS BEING MAINTAINED. THE ROBOT SHOULD BE MAINTAINED REGULARLY AND NOT PUT BACK INTO SERVICE WITHOUT ALL GUARDS IN PLACE AND ALL SAFETY SYSTEMS TESTED AND OPERATING CORRECTLY. PEOPLE CAN BE INJURED DUE TO THE FAILURE TO FOLLOW AND LACK OF ISOLATION AND SAFE WORK PROCEDURES FOR THIS ROBOT. THIS ROBOT SHOULD NOT BE MODIFIED IN ANY WAY WITHOUT THE MANUFACTURERS APPROVAL.

138322.30 INFORMATION, INSTRUCTION, TRAINING & SUPERVISION ALL OPERATORS, MAINTENANCE PERSONNEL AND PEOPLE REQUIRED TO WORK ON THE ROBOT REQUIRE INFORMATION ON THE OPERATION AND HAZARDS OF THE AMUSEMENT RIDE/STRUCTURE, INSTRUCTION AND TRAINING ON HOW TO SETUP, OPERATE, MAINTAIN, STOW AND TRANSPORT THE ROBOT AND PERSONAL AND USES SHOULD ALWAYS BE SUPERVISED WHEN USING, SETING UP, OPERATING, MAINTAINING, STOWING OR REQUIRED TO WORK AROUND THE ROBOT.

Health and Safety
Plant Safety
Purchaser Information

This plant health and safety information has been prepared by Grays for the purchaser of the plant item as required by National WHS Legislation. Whilst every effort has been made to identify all of the hazards, it should be recognised that all reasonably practicable hazards have been identified given due consideration to:

- state of knowledge about the plant item
- the availability and suitability of ways to eliminate or control the hazards
- the cost of evaluating, eliminating or controlling the hazard

Consequently, if this plant item is being purchased for use at a place of work, the purchaser is reminded of their obligations to involve and consult with employees in identifying foreseeable hazards, assess their risks and to take action to eliminate or control the risks.

In order to assess the risk, it is necessary to consider for all the identified hazards, the chance (likelihood) of something happening that would impact (consequence) on health and safety at the workplace. The following guidelines are provided to assist the purchaser in consistently carrying out an assessment of risk:

Likelihood	Consequences
<ul style="list-style-type: none">• Frequency and duration of exposure• Probability of occurrence of hazard or event (including part history of incidents)• Possibility to avoid / minimize or limit the damage, impact or harm• Reliability and effectiveness of existing / established systems of control	<ul style="list-style-type: none">• Assume “worst case” injury, but also competent follow-up medical and rehabilitation support• Consider forces or energy levels, highest belt tensions, size of gears, pulleys or other entrapment points and therefore body parts likely to be injured• Consider sharpness of entrapment points, surrounding parts likely to exacerbate injury, and any give in the entrapment point• Consider, will entrapment continue until plant is stopped, or can an injured part travel through the entrapment area• Are temperatures of plant, or chemicals, likely to further injure entrapped person

The outcome of the risk assessment will be a prioritised list of risk control strategies and actions consistent with the following ratings:

- Low risk- may be considered acceptable, where the existing controls in place are seen to be effective, requiring periodic monitoring for effectiveness.
Medium risk- considered to be unacceptable and requiring additional risk controls within medium to long term.
High risk – considered to be unacceptable and requiring action within the short to medium term.
Extreme risk – unacceptable, where immediate action required.

In all of these cases employees/operators must be made aware of the risk controls in place to protect them from the hazards.