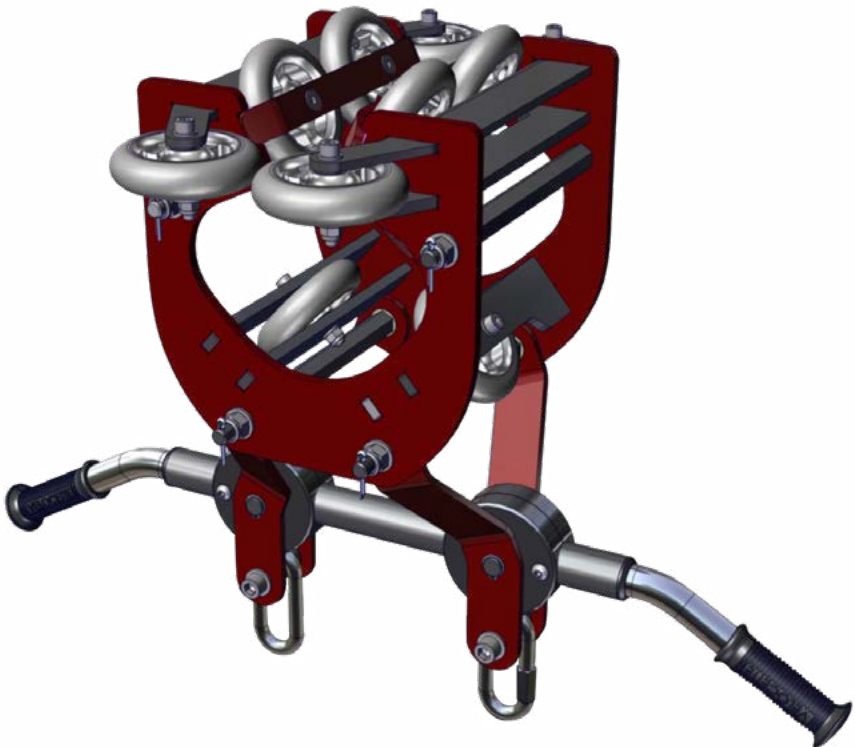


# ROLLGLIDER

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## Trolley Operation Manual

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## 1 Introduction

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This manual is intended to provide guidance on how to properly operate the Rollglider trolley. The main structural and operational components of the trolley are described, as well as their functions. Some general procedures, such as attaching and detaching participants to the trolley, are also considered.

Please refer to User Manual and Maintenance Instruction for Rollglider Attraction Facility for information on how to operate the entire facility.

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## 2 General Requirements

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Facility owners and operators must ensure the safety of all staff members, participants, and visitors, by preventing the improper use of the Rollglider and its trolley. They must consider foreseeable risks and take measures to eliminate them.

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## 3 Specific Requirements

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The recommended preventive measures related to the Rollglider trolley are classified into three groups:

- Design and construction of the trolley
- The manner in which the participant is attached to the trolley
- Inspection and maintenance of the trolley

All three groups should be considered in order to ensure that the Rollglider facility is safe and problem-free. The order in which they are listed does not indicate their priority.

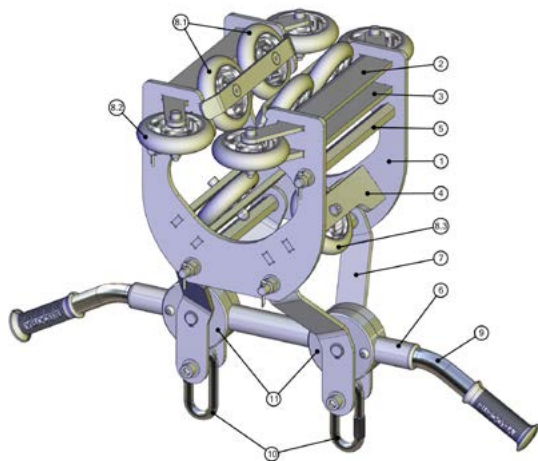
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### 3.1 Design and Construction of the Rollglider Trolley

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The Rollglider trolley is designed, manufactured and tested in different loading conditions by finite element analysis in a virtual environment in accordance with EN 13814:2004 (Fairground and amusement park machinery and structures – Safety).

The main structural components of the Rollglider trolley are shown in the Figure on the next page.



**Figure 1**  
Main structural components of the Rollglider trolley

- 1 Bases** - the main load-bearing components and trolley load supports.
- 2 Side Profiles** - situated between the bases for support of the top and side wheels.
- 3 Side Arms** - situated below the Side Profiles for additional support of the top and side wheels.
- 4 Wheel Support Plates** - components to which the Bottom Wheels are mounted.
- 5 Hexagon Studs** - attached to prevailing torque type nuts and split pins to ensure that the structure will not fall apart even if one or more of the fasteners fail.
- 6 Circular Tube** - connects the Bar Linkages.
- 7 Bar Linkages** - support the participant.
- 8.1 Top Wheels**
- 8.2 Side Wheels**
- 8.3 Bottom Wheels**
- 9 Handles** - attached to the end of the Circular Tube
- 10 Oval quick links** - used for attaching the harness to the trolley.
- 11 Hand Guards** - ensures that the participant's hands do not get caught between the movable parts of the handle-tube assembly.

All components are in accordance with the required international certification.

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### **Changes of the trolley construction are prohibited**

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Changes to the Rollglider trolley, without the manufacturer's permission in written form, are strictly prohibited.

The following are considered changes:

- a.** Any change in the position of the components, including dismounting one or more components from the trolley.
- b.** Loosening, removing and/or adding elements or fasteners to the Rollglider trolley's construction.
- c.** Any manipulation of the construction and its elements leading to possible damage to its structural integrity or strength, including, but not limited to: cutting, welding, machining and drilling;
- d.** Any other actions that may influence the structural soundness of the product, including adding additional loads to the construction.
- e.** Replacing any of the components with ones that were not provided by the manufacturer.

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### 3.1.1 Safety Harnesses

Rollglider trolleys come together with a set of harnesses provided by the manufacturer. These harnesses are certified according to international or national safety standards.

Please refer to the harness instruction manual for information on how to use the harnesses.

**Under no circumstances should you use harnesses other than those provided with the product. The operator of the facility is liable in the event of an accident resulting from the use of a harness that is not intended for the product.**



**Figure 2**  
*Rollglider safety harness*

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### 3.1.2 Attaching Participants

The Rollglider trolley and the harness are attached by two CE certified slings, which hang from the oval quick links.

#### **Maximum participant weight**

The maximum weight of each patron must not exceed 140 kg/ 308 lb, as specified by the harness manufacturer.

For your safety, do not use attachment points other than the ones indicated. Doing so may injure participants and/or operating personnel.

**DO NOT ATTACH THE CARABINERS TO ANY OTHER COMPONENTS OF THE TROLLEY. DOING SO MAY RESULT IN AN ACCIDENT AND/OR FATAL INJURY TO THE PARTICIPANT OR STAFF MEMBER.**

Please refer to the User Manual and Maintenance Instruction for Rollglider Attraction Facility for detailed information on attaching participants.

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### 3.1.3 Detaching Participants

Please refer to the User Manual and Maintenance Instruction for Rollglider Attraction Facility for detailed information on detaching participants.

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## 4 Trolley Inspection and Maintenance

Trolleys require basic maintenance that needs to be performed on a regular basis. Please refer to the maintenance manual (RG.ST.99.000.06) for information on the necessary maintenance procedures, as well as their schedule.