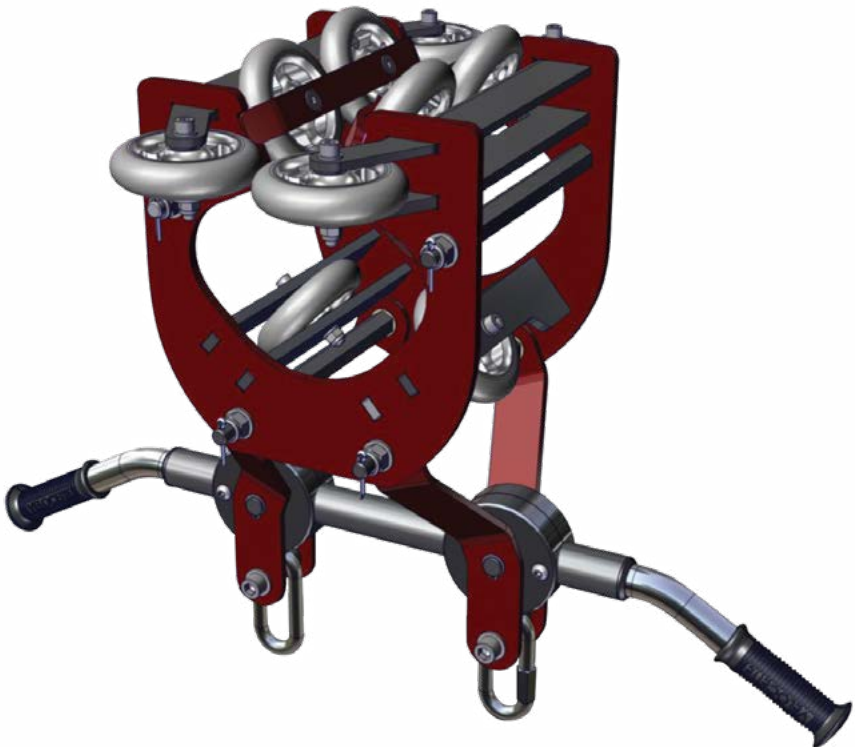


ROLLGLIDER

Trolley Maintenance Manual



1 Introduction

This manual describes the maintenance steps required to ensure optimal working conditions and safety during the use of the Rollglider trolley.

2 General Requirements

The following inspections are mandatory:

Regular visual inspections

Daily visual inspections are an absolute requirement for safe and problem-free operation of the facility. Such inspections include detailed visual inspection for: loosened fasteners; loosened or unstable components; visible permanent deformations and deflections; cracks and damage of the component; severe wearing out of the wheels and eyes of the slings.

In case any such issue is encountered, stop using the affected trolley immediately until the components are replaced or repaired.

Key criteria for potential risks

- Permanent deflection and/or deformations in any structural elements
- Cracking in any structural member (not including coating cracks)
- Missing bolts
- Loosened connections

Safety equipment check

Carabiners and oval quick links used to connect the participant to the trolley must have an automatic locking gate (dual/triple opening action), certified by the manufacturer. Connectors should conform to EN 362 (Personal protective equipment against falls from a height – Connectors) or equivalent national or international standard.

The carabiners and oval quick links must be retired if any of the following criteria is true:

- Significant scoring or wear
- Cracks or distortion
- Improper operation of gate or locking system
- Excessive corrosion

For checking other third-party personal protective equipment (helmets, slings, harnesses) follow the specific instructions given by the manufacturer.

3 Specific Checks

Apart from the general requirements, some specific checks are outlined in the subsections below.

3.1 Daily Checks

Each check needs to be performed before the start of daily operations. Completing all of the tasks takes about 10 to 15 minutes per trolley.

Task №	Component	Inspection task	Service event	Service tasks
D1	Nuts of the hex studs	Check for broken torque marker	Broken torque marker	<ul style="list-style-type: none"> Remove pieces of the broken marker Tighten the affected nuts Reapply marker
D2	Nuts of the wheel bolts	Check for broken torque marker	Broken torque marker	<ul style="list-style-type: none"> Remove pieces of the broken marker Tighten the affected nuts Reapply marker
D3	Nuts at the oval quick links	Check for broken torque marker	Broken torque marker	<ul style="list-style-type: none"> Remove pieces of the broken marker Tighten the affected nuts Reapply marker
D4	Retaining rings of the handlebar	Check for bent or missing retaining rings		<ul style="list-style-type: none"> Replace any bent or missing retaining rings
D5	Trolley wheels	Check for visible damage to the thread or the rim	Shallow surface scratches or deep thin cuts in the thread	<ul style="list-style-type: none"> Do nothing
			Missing thread pieces	<ul style="list-style-type: none"> Compare damage with previous photos of the damage on the same wheel (if any). If damage has intensified, take another photo and attach it to the maintenance log Replace the wheel as per maintenance procedure
			Missing pieces of the rim, deep cuts	<ul style="list-style-type: none"> Photograph the wheel. Attach the photograph to the maintenance log. Replace the wheel as per maintenance procedure
		Rotate the wheels by hand. Observe any noises	Noisy bearings	<ul style="list-style-type: none"> Replace the wheel as per maintenance procedure
D6	Handles	Check for loosened handles	Loosened handle	<ul style="list-style-type: none"> Tighten the handle bolts
D7	Split pins	Check for missing split pins	Missing split pin	<ul style="list-style-type: none"> Replace missing split pins
D8	Oval quick links	Turn the nut with a wrench	Oval quick link cannot be fully closed	<ul style="list-style-type: none"> Replace affected oval quick links

4 Weekly Maintenance

Estimated time to complete all tasks – 10-20 minutes per trolley.

Task №	Component	Inspection task	Service event	Service tasks
W1	Whole trolley	-	-	<ul style="list-style-type: none"> • Clean the trolley with a soft, damp cloth. Do not use detergents or cleaning agents.
W2	Oval quick links and carabiners	Check for damage or rust	Damaged or severely rusted connectors	<ul style="list-style-type: none"> • Replace affected connectors

5 Monthly Inspections

The monthly inspection provides a detailed review of how well the Rollglider trolley is functioning. Special attention is paid to its structural integrity, the condition of the wheels, and their bearings.

In cases of significant deformation of the components, the trolley may be deemed unsuitable for use until the affected parts are repaired or replaced. Worn out wheels should be changed as necessary. Replacement of other components is to be specified by the manufacturer.

Task №	Component	Inspection task	Service event	Service tasks
M1	Trolley wheels and bearings	-	-	<ul style="list-style-type: none"> • Clean wheels and bearings from dust with pressurized air
M2	Whole trolley	Establish condition of trolley <ul style="list-style-type: none"> • deflection of components; • excessive wear or scoring marks; • structural integrity of the trolley 	-	<ul style="list-style-type: none"> • Replace worn out or deformed components • Replace worn out or damaged wheels

6 Annual Inspections

The aim of the annual inspection is to determine the condition of the Rollglider trolley. The most heavily loaded components, as well as the attachment points for personal protective equipment are inspected in detail.

The following checks are performed every year by an inspector with the necessary qualification. The report from the annual inspection may stipulate replacement of components of the trolley.

Task №	Component	Inspection task	Service event	Service tasks
Y1	Whole trolley	<ul style="list-style-type: none"> • Establish overall level of safety of the trolley; • Identify worn components to be replaced; • Inspect condition of the wheels; • Ensure the correct functioning of the trolley; 	-	<ul style="list-style-type: none"> • Replace worn out components