



Robertson Harness  
Fort Collins, Colorado  
[sales@robertsonharness.com](mailto:sales@robertsonharness.com)  
[www.robertsonharness.com](http://www.robertsonharness.com)  
(970) 682-4470

These instructions are provided to the user by the manufacturer and should be saved for future reference.

### Features

- 304 Stainless Steel side plates w/ 5/8" lock off bolt incloses the 4" sheave keeps out contaminants & protects the user from an open wheel design.
- Hard Anodized Aluminum 4" Sheave
- The 4" sheave can be rotated 180 Degrees to extend service life.
- D Shaped Rigging Hole accepts ( 2 ) Carabiners .690 web thickness around it's perimeter yields 17,500 lb. test.
- The Main Frame, Backup Shield, and axle are manufactured out of 304 steel and are time tested, proven with outstanding durability and structural design for 25 years.
- The Robertson 5050 is a fully rebuild able platform highly recommended for commercial applications.

### Qualifications

- Minimum 3 Sigma breaking strength of not less than 36 kN (8093.16)  $\sigma$
- Meets & Exceeds ANSI/ACCT 03-2019 1.3.9 Standard
- Product- 5050
- Description- Shear Reduction
- Third party rated tested
- 3-Sigma  $3\sigma$  50kN (11,240 lb.) SWL ( $\sigma$ )<sup>5</sup> @ 5,500 lb.



### Requirements

- NFPA 1983 7.6.5.4 the trolley must be capable of sustaining a 8,093 lb. (36kN) static load or twice the maximum arrest force permitted on the system when certified.
- Inspect pulley after each use in accordance with Manufacturers criteria.
- A cursory inspection by a trained person is essential before each use of the pulley.
- Robertson Harness recommends an annual examination of general condition and function be carried out and recorded by a third party "Qualified Person."

### WARNING

- Serious injury death may result from misusing or improper use of this equipment.
- This equipment has been designed and manufactured for use by experienced professionals only.
- Do not attempt to use this equipment without proper training.
- Do not alter this equipment in any way.
- Do not use this equipment for anything designed to create a free fall of more than six feet.

## Robertson Harness

Proudly Made In The USA



### Shear Reduction Device Typhoon

5050

Tested to 16,500 lbs  
73 kN



### Inspection

- Inspect pulley for visible signs that show damage to the trolley: Cracks on the side plates, heavy dents, or elongation of the clip in point.
- Inspect the sheaves for rust, pits, and grooving.
- Inspect the nuts on the axles assemblies for tightness.
- Inspect the trolley for damage if dropped or impact loaded.
- Remove immediately and destroy if the equipment has been dropped from excessive heights.

Users and Operators need to maintain a log of identifying the history record of the equipment.

### Sample Maintenance and Inspection Log

Product Record Card			
Product Type:			
ID /Serial #:			
Purchase Date:		Date of 1st Use:	
Date Inspected	Pass/Fail	Comments	Signature

### Maintenance

- Protect and store the equipment away from extreme heat or extreme cold.
- Pulley should never be exposed to temperatures above 130° F (54° Celsius) or below -80° F. (Above 62° Celsius).
- Pulley's need to be clean and free from debris before storage.
- If necessary clean pulley with soap and water.
- Pulley needs to be completely dried off before storage.
- Pulley needs to be stored and maintained daily.
- Do not leave pulley outside on the system to endure mother nature! The sheaves are not stainless steel.
- Repairs or modifications made by anyone other than Robertson Harness Inc. will void all warranties and liability.



## **Trolley Maintenance**

The trolleys produced by Robertson Harness are made from stainless steel, with the exception of the sheaves. The sheaves are made from hardened steel. These sheaves cannot be left exposed to the elements without severe erosion and damage to the trolley. There is no defined life span of a trolley. Retirement is based on the condition only. To ensure the life of your trolley, there are some steps you can take to care for your equipment.

### **Cleaning and care:**

For daily maintenance, insure the trolley is free from dust and debris. If the trolley is wet, take the time to dry completely. If your trolley is exposed to salt water during daily use, it should be rinsed with fresh water and completely dried off. No trolley should be left outside to face the elements on a day to day basis; all trolleys should be taken down and properly maintained.

Trolleys are built for endurance and performance. For long service life they will need to be properly maintained and cared for. If the trolley has debris stuck anywhere within it, try to remove it using a toothbrush or cloth. Follow with a rinse and a through dry of the hardware. To maximize the life of your trolley, Robertson recommends intermittently using a dry or non-sticky lubricant after cleaning to prevent sheaves from rusting.

### **Service & Rebuilds**

Torque Nuts to 10 foot lbs. (This specification is for axles of Trolley/Pulleys. Contact Manufacturer if you have any questions)

You can send back your trolley/pulley for "Inspection and Rebuild." First step is to contact us at [Sales@RobertsonHarness.com](mailto:Sales@RobertsonHarness.com) to start the process.

Rebuild Kits are available for 3/8" – 1/2" sheave & bearings. Customer assumes liability to function, use, and safety of product upon rebuilding.

\*Rebuilding, repairing, or altering products in any way releases responsibility and liability from Robertson Harness.

Any further questions about trolley maintenance call us @ 970-682-4470 or Email: [Sales@RobertsonHarness.com](mailto:Sales@RobertsonHarness.com)