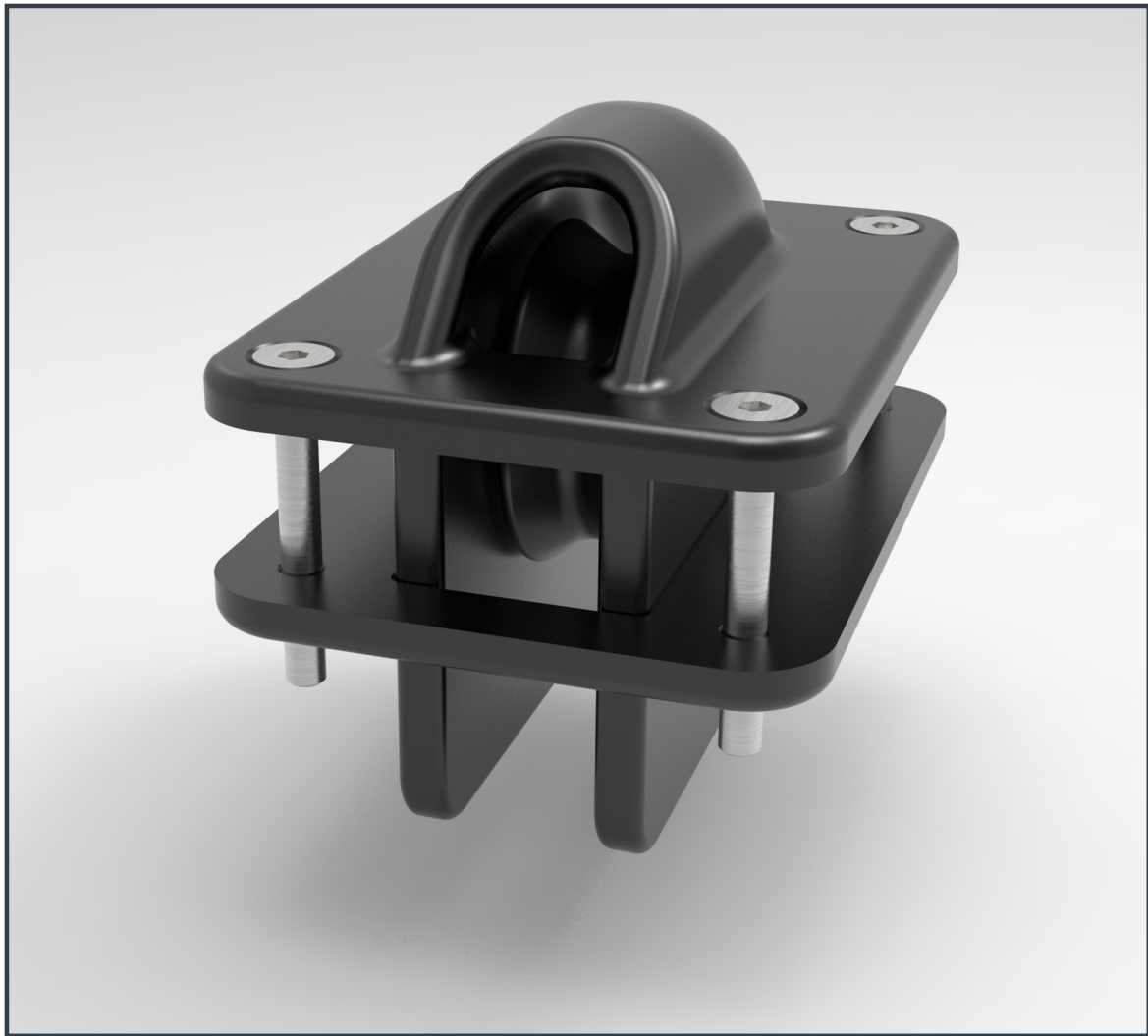


Rigging Projects

Through Deck Sheave User Guide



RP4142- TDSB - UG - 01

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Introduction

This manual provides an overview of the Rigging Projects Through Deck Sheave Box and its maintenance. Please read this manual carefully before installation, use or maintenance, to ensure that you have understood and are familiar with all relevant details.

Prior to using this product, all persons should be made aware about the possible hazards associated with its operation and use. Any service work, repairs maintenance or equivalent work carried out on the product should be undertaken by technically qualified persons.

Caution

The Rigging Projects Through Deck Sheave Box has been tested extensively to ensure the safety and function of the product. However, it is important for the users to understand the risks involved in the event of a mechanical failure. Care should be taken to position the sheave box appropriately in respect to the line recoil angle. Failure to take safety precautions could lead to severe injury or death.

Key Design Features

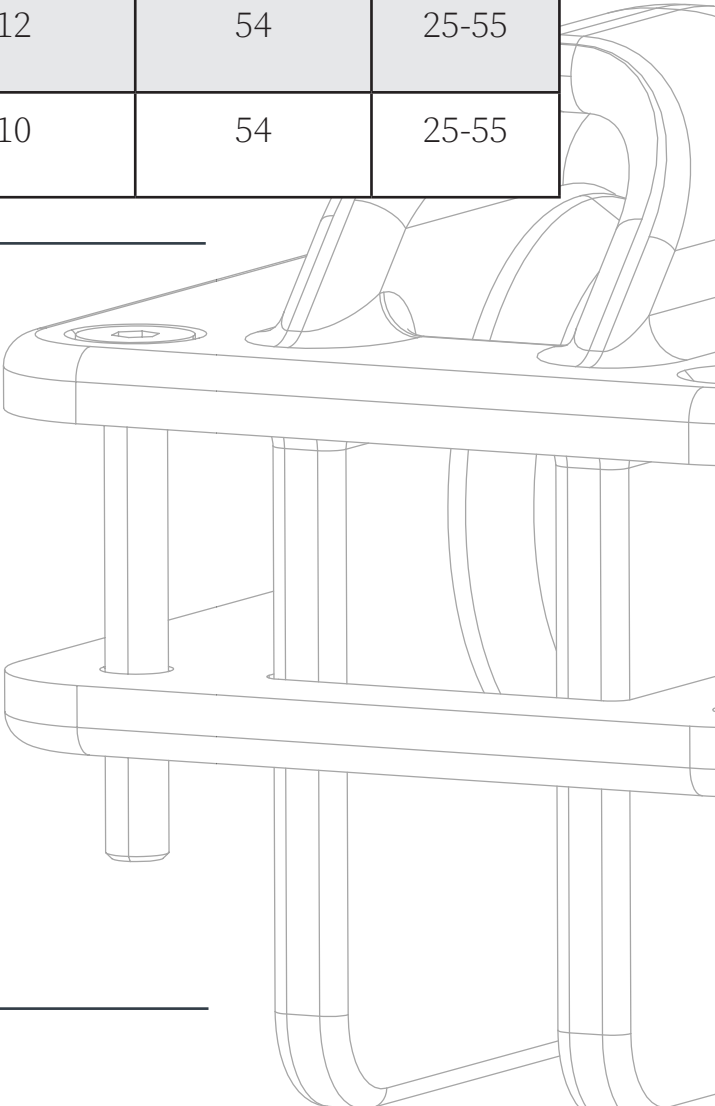
- The Rigging Projects Through Deck Sheave Box is a unique cassette design intergrating the load bearing pin for ease of installation
- Available in single, double, wide and narrow sheave options
- Low profile
- Self lubricating sheave

Range

Part #	Sheave Arrangement	MWL	Max. Line Ø (mm)	Sheave Ø (mm)	Deck Grip (mm)
RP0473	Single	2.5T	10	54	25-50
RP0467	Single	5T	12	76	25-55
RP0262	Wide Single	3.5T	12	65	25-55
RP0445	Double	3.5T	12	54	25-55
RP0921	Double Stacked	3.5T	10	54	25-55

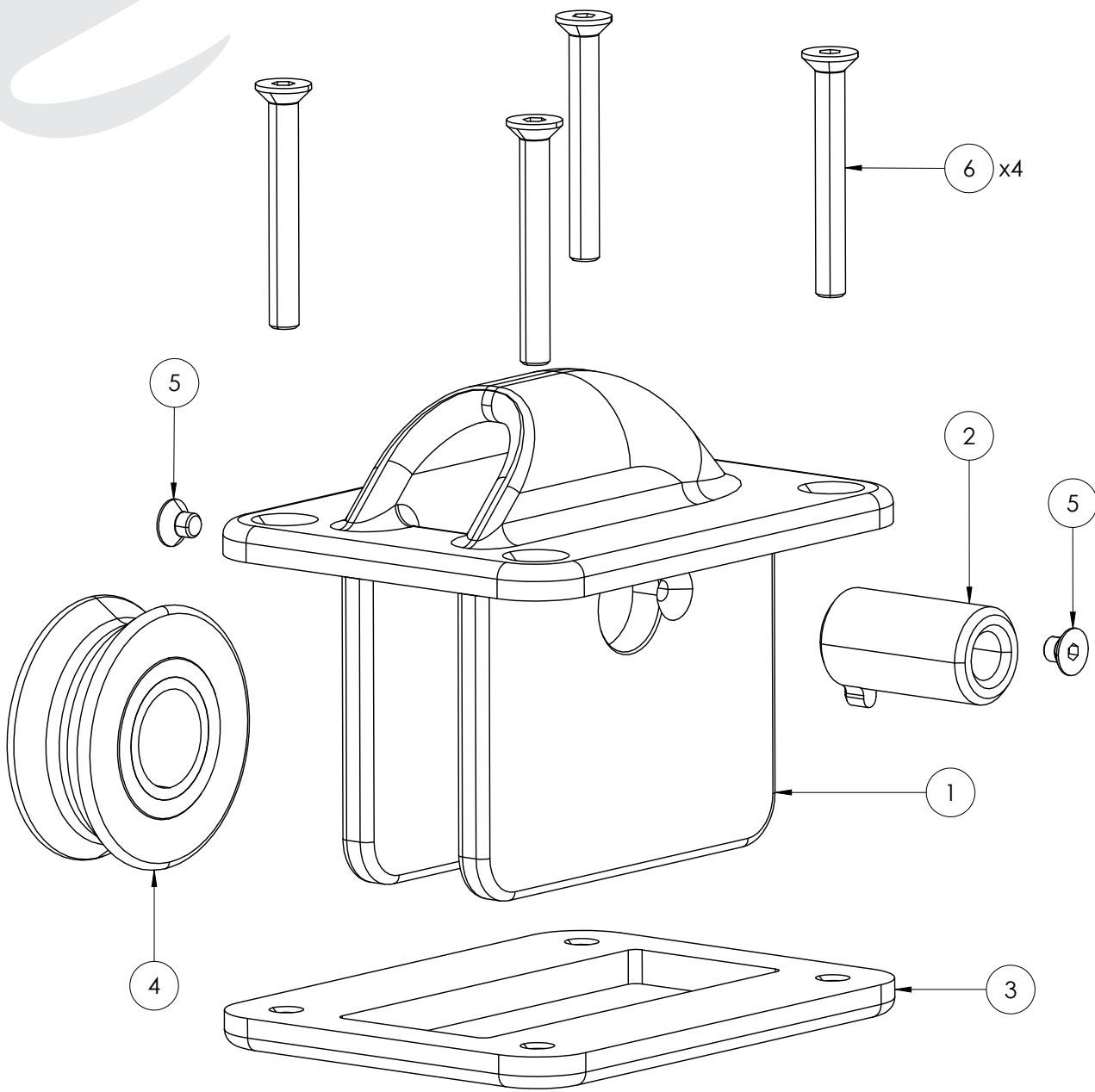
Disclaimer

It is not permitted to modify the product or its parts, other than replacing parts specified in this manual. Rigging Projects Ltd is not liable for any dangerous situation, accidents, damage and consequences thereof caused when deviating from the instructions, guidelines and procedures described in this manual. To retain warranty do not deviate from the instructions, guidelines and procedures described in this manual.



Global View

Single & Wide Sheave



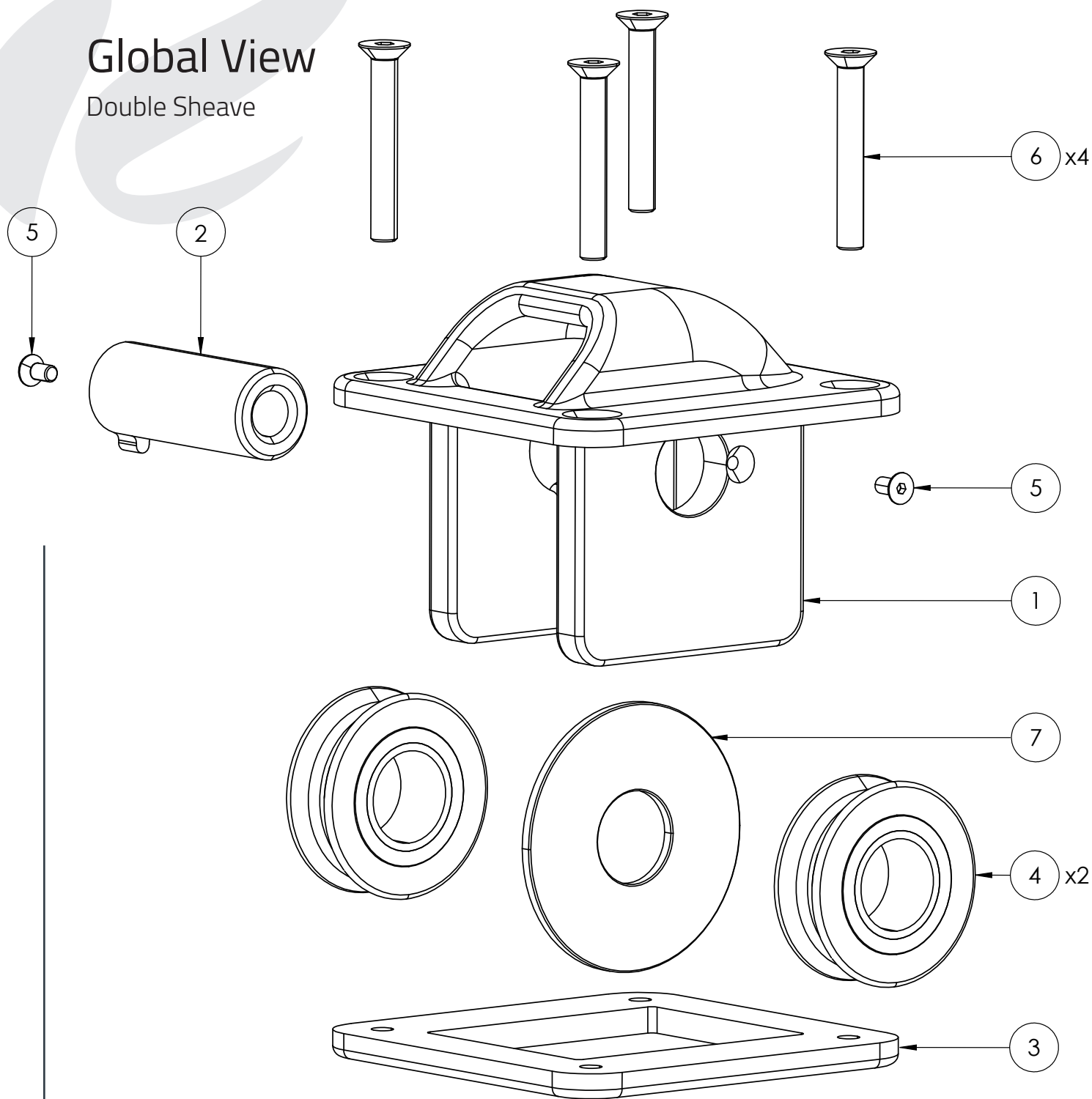
Item #	Description	Qty
1	SHEAVE BOX	1
2	PIN	1
3	PLATE	1
4	SHEAVE	1
5	SOCKET CSK HEAD SCREW	1
6	SOCKET CSK HEAD SCREW	1

Installation Guide

Tools	• Allan Keys • Sealant- non-bonding as sheave box will be removed for servicing • 4mm mousing line • Marker • Blue Loctite and Tef-Gel
Step	Instruction
1	• Ensure the maximum working load of the sheave box is rated to the resultant line load of the application before installing • Carefully consider the load will act on the sheave in appropriate direction to the sheave • Structural sign off should be gained for the working load of the sheave box
2	1. Insert the sheave ④ into sheave box ① and install pin ② through sheave and sheave box ① 2. Ensure the key way of the pin ② is effectively seated into sheave box ① 3. Secure with socket CSK head screw ⑤ with blue Loctite on thread and Tef-Gel on CSK faces of sheave box ① 4. Thread 4mm mousing line into sheave box
3	1. Clean the deck area and mark out for the location of the sheave box ① 2. Use the customer drawing for the dimensions. Ensure the position on deck is a suitably flat finished surface; some cases may require an area of potting in the deck to take the required load. Please consult structural drawing for information. 3. The receiving hole in the deck must be a tight fit to the body of the sheave box (+/- 1mm ideally) 4. Ensure the above and below deck surfaces are parallel for even clamping across the sheave box ① and plate ③
4	1. Dry fit the sheave box ① into the deck to check fit and ensure it sits flush to the deck 2. From below; install the plate ③ and secure with socket CSK head screws ⑥x4 ensuring there is at least three threads visible below the fasteners 3. Ensure the plate ③ is flush to the deck head and is in contact through out 4. Mark the thread on the fasteners ⑥ where the plate ③ sits when hand tight for Loctite application later in the install 5. Remove the assembly
5	1. Please follow the chosen sealant manufactures recommended preparation and application process 2. Ensure the bead of sealant sufficiently covers the sheave box ① and plate ③ 3. Insert the sheave box ① into the deck; ensure there is a complete seal between the body ① and the mounting surface 4. Apply Blue Loctite to the marked threads from the dry install and counter sunk faces of the sheave box ① 5. Secure the socket CSK head screws ⑥x4 6. Ensure the sheave box ① and plate ③ are clamping to the deck material evenly 7. Allow sealant to fully cure before applying load the sheave

Global View

Double Sheave



Item #	Description	Qty
1	SHEAVE BOX	1
2	PIN	1
3	PLATE	2
4	SHEAVE	2
5	SOCKET CSK HEAD SCREW	2
6	SOCKET CSK HEAD SCREW	4
7	WASHER	1

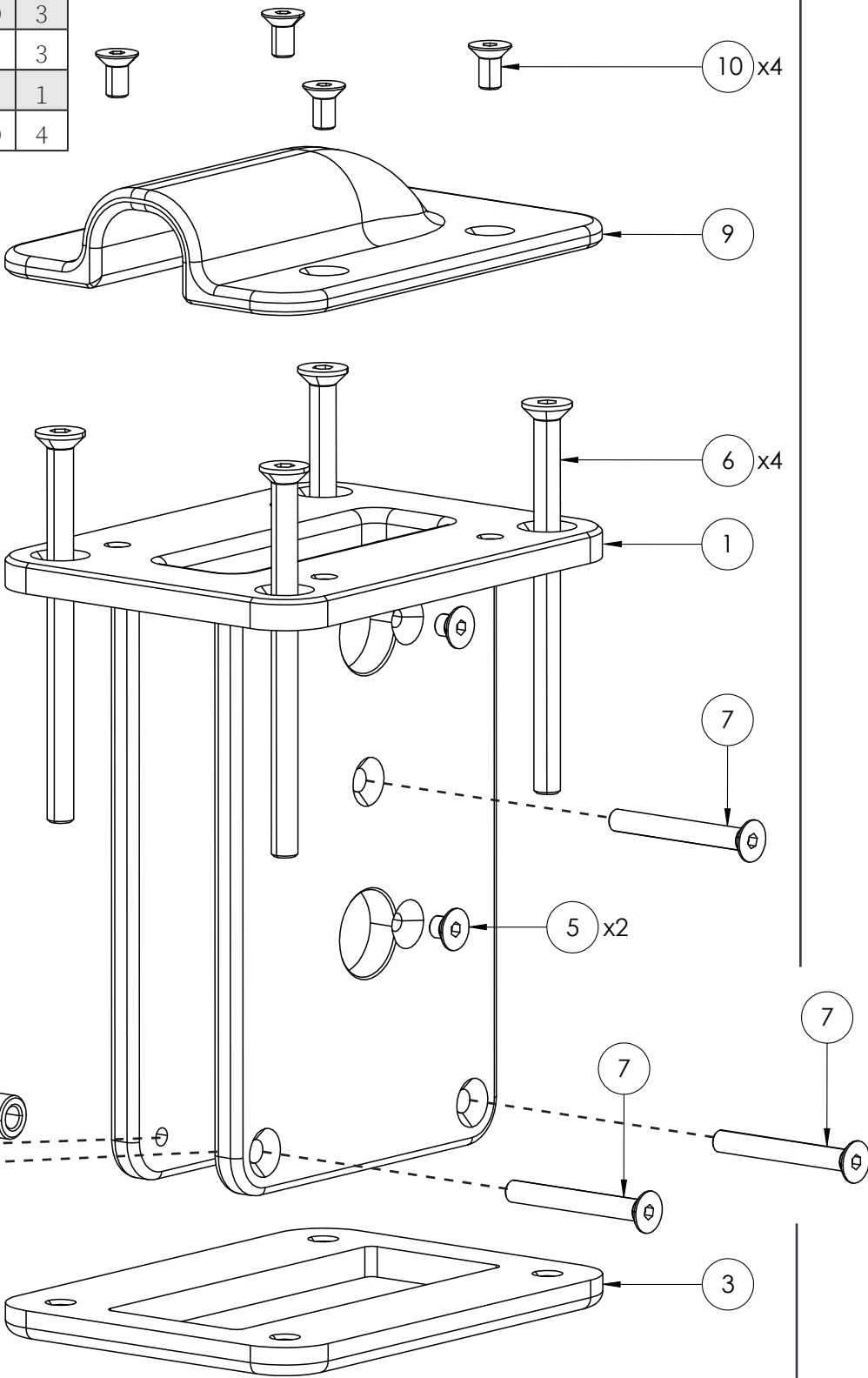
Installation Guide

Tools	- Allan Keys - Sealant- non-bonding as sheave box will be removed for servicing 4mm mousing line - Marker - Blue Loctite and Tef-Gel
Step	Instruction
1	- Ensure the maximum working load of the sheave box is rated to the resultant line load of the application before installing - Carefully consider the load will act on the sheave in appropriate direction to the sheave - Structural sign off should be gained for the working load of the sheave box
2	- Install washer ⑦ between the sheaves ④ x2 - Insert the sheaves ④ x2 into sheave box ① and install pin ② through sheaves ④ and sheave box ① - Ensure the key way of the pin ② is effectively seated into sheave box ① - Secure pin ② with M5 x 10 socket CSK fasteners ⑤ x4 with blue Loctite on thread and Tef-Gel on CSK faces of sheave box ① - Thread 4mm mousing line into sheave box
3	- Clean the deck area and mark out for the location of the sheave box ① - Use the customer drawing for the dimensions. Ensure the position on deck is a suitably flat finished surface; some cases may require an area of potting in the deck to take the required load. Please consult structural drawing for information. - The receiving hole in the deck must be a tight fit to the body of the sheave box (+/- 1mm ideally) - Ensure the above and below deck surfaces are parallel for even clamping across the sheave box ① and plate ③
4	- Dry fit the sheave box ① into the deck to check fit and ensure it sits flush to the deck - From below; install the plate ③ and secure with M6 x 90 socket CSK fasteners ⑥x4 ensuring there is at least three threads visible below the fasteners - Ensure the plate ③ is flush to the deck head and is in contact through out - Mark the thread on the fasteners ⑥ where the plate ③ sits when hand tight for Loctite application later in the install - Remove the assembly
5	- Please follow the chosen sealant manufactures recommended preparation and application process - Ensure the bead of sealant sufficiently covers the sheave box ① and plate ③ - Insert the sheave box ① into the deck; ensure there is a complete seal between the body and the mounting surface - Apply blue Loctite to the marked threads on ⑥x4 from the dry install and counter sunk faces of the sheave box ① - Secure the M6 x 90 ⑥ x4 - Ensure the sheave box ① and plate ③ are clamping to the deck material evenly - Allow sealant to fully cure before applying load the sheave

Item #	Description	Qty
1	SHEAVE BOX	1
2	PIN	2
3	PLATE	1
4	SHEAVE	2
5	M5 x 6 SOCKET CSK HEAD	4
6	M6 x 90 SOCKET CSK HEAD	4
7	M5 x 40 SOCKET CSK HEAD	3
8	SPACER	3
9	COVER	1
10	M5 x 10 SOCKET CSK HEAD	4

Global View

Double Stacked Sheave



Installation Guide

Tools	- Allan Keys - Sealant- non-bonding as sheave box will be removed for servicing 4mm mousing line - Marker - Blue Loctite and Tef-Gel
Step	Instruction
1	- Ensure the maximum working load of the sheave box is rated to the resultant line load of the application before installing - Carefully consider the load will act on the sheave in appropriate direction to the sheave - Structural sign off should be gained for the working load of the sheave box
2	- Secure M5 x 4 socket CSK fasteners (7) x3 into sheave box (1) with spacers (8) x3 situated on the inside of the sheave box - Insert the sheaves (4) x2 into sheave box (1) and install pins (2) x2 through sheaves (4) and sheave box (1) - Ensure the key way of the pins (2) are effectively seated into sheave box (1) - Secure pins (2) x2 with M5 x 6 socket CSK fasteners (5) x4 with blue Loctite on thread and Tef-Gel on CSK faces of sheave box (1) - Thread 4mm mousing line into sheave box
3	- Clean the deck area and mark out for the location of the sheave box (1) - Use the customer drawing for the dimensions. Ensure the position on deck is a suitably flat finished surface; some cases may require an area of potting in the deck to take the required load. Please consult structural drawing for information. - The receiving hole in the deck must be a tight fit to the body of the sheave box (+/- 1mm ideally) - Ensure the above and below deck surfaces are parallel for even clamping across the sheave box (1) and plate (3)
4	- Dry fit the sheave box (1) into the deck to check fit and ensure it sits flush to the deck - From below; install the plate (3) and secure with M6 x 90 socket CSK fasteners (6) x4 ensuring there is at least three threads visible below the fasteners - Ensure the plate (3) is flush to the deck head and is in contact through out - Mark the thread on the fasteners (6) where the plate (3) sits when hand tight for Loctite application later in the install - Remove the assembly
5	- Please follow the chosen sealant manufactures recommended preparation and application process - Ensure the bead of sealant sufficiently covers the sheave box (1) and plate (3) - Insert the sheave box (1) into the deck; ensure there is a complete seal between the body and the mounting surface - Apply blue Loctite to the marked threads on (6) x4 from the dry install and counter sunk faces of the sheave box (1) - Secure the M6 x 90 (6) x4 - Ensure the sheave box (1) and plate (3) are clamping to the deck material evenly - Install cover (9) onto sheave box and secure with M5 x 10 (10) x4 - Allow sealant to fully cure before applying load the sheave

Inspection Intervals

During each interval please carry out preceding inspection advisories

Interval	Advisories
Inshore Racing Daily Check	Visual inspection of the sheave for damage or sharp edges
	Visual inspection of the mouting area around the sheave box for deformation
	Visual inspection of sheave box and fasteners for deformation or signs of wear
	Visual inspection of control line for chaffing
Offshore Sailing or 2 Months or 2500nm	Fresh water rinse to remove salt and rope debris
Annual or 20,000nm	Remove sheave box and dissassemble sheave for full inspection
2 years	Full inspection and service by Rigging Projects technician

Important

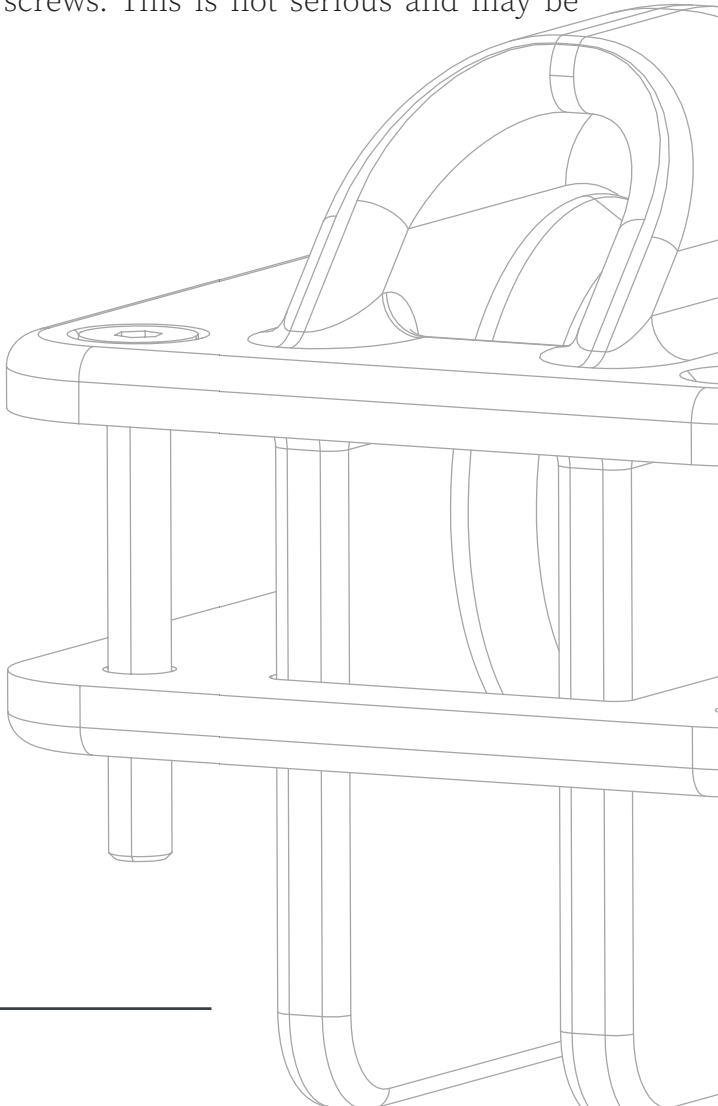
This product is design to be self lubricating. Please **do not attempt to lubricate** the sheave or apply any product to the internals as you will damage the mechanism.

Trouble Shoot

Problem	Probable Cause	Solution
Rattling or scraping sound coming from sheave	Broken bearing	Using a tray to disassemble the sheave box to ensure the contents are not lost, inspect all the component for damage
	Debris in chamber	Using a tray to disassemble the sheave box to ensure the contents are not lost, inspect and clean components with fresh water

Important

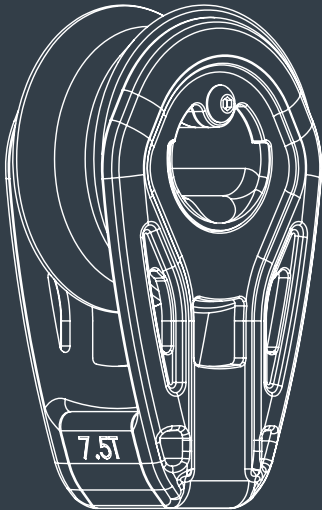
Rigging Projects equipment is designed for minimal maintenance, but some maintenance is required for optimum and safest possible operation and to comply with the Rigging Projects limited warranty. In general, the most important aspect of maintenance is to keep your equipment clean by frequently flushing with fresh water. In corrosive atmospheres, stainless parts may show discolouration around holes and screws. This is not serious and may be removed with a fine abrasive.



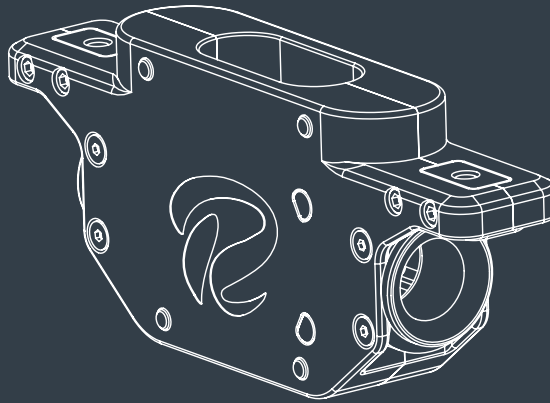
Customer Support

Info@riggingprojects.com

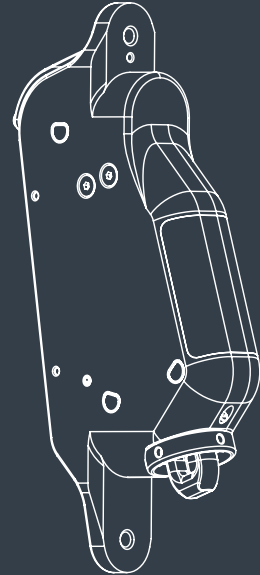
+44 23 8045 6358



X- Glide Range



Internal Lock Range



Fwd Lock Range

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Southampton, UK

Zaandam, Netherlands

Palma de Majorca, Spain

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