

OX TELESCOPIC SPREADER BEAMS

Instruction Handbook

Additional information to OX-SB Handbook

Applicable product versions: V2

Document edition: 03

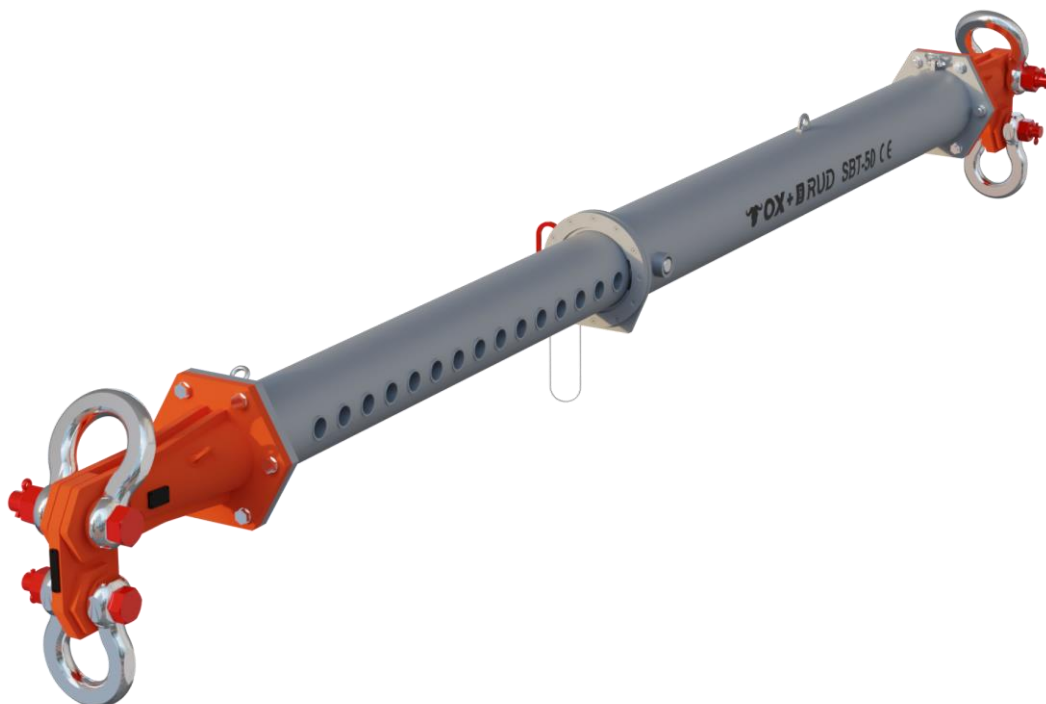


TABLE OF CONTENTS

PREVIOUS INFORMATION.....	3
DEFINITIONS.....	3
GENERAL CONCEPTS OF LIFTING LOADS.....	3
GENERAL FEATURES	3
TRANSPORTING AND STORAGE.....	3
SAFETY.....	3
ASSEMBLY.....	4
USAGE.....	5
MAINTENANCE.....	6
CLEANING.....	6
WARRANTY.....	7
INSPECTIONS.....	8
NOTES	12

ANNEXES

TECHNICAL DATASHEET OF SUPPLIED PRODUCTS

DECLARATION OF CONFORMITY OF SUPPLIED PRODUCTS

DOCUMENT	USE AND MAINTENANCE MANUAL
VERSION	3
DATE	01/10/2025
ISSUED BY	A.A.L.
VALIDATED	C.S.M.

PREVIOUS INFORMATION

The goal of this manual is to provide the supplementary information to Spreader Beam V2 use and maintenance manual, necessary for a correct and secure use and maintenance of the OX Telescopic Spreader Beam.

The OX-SBT range products don't consist of DNV certificates DNV-ST-0378 – DNV-ST-0377.

DEFINITIONS

See **Spreader Beam V2 Use and maintenance manual** (Annex I).

GENERAL CONCEPTS OF LIFTING LOADS

See **Spreader Beam V2 Use and maintenance manual** (Annex I).

GENERAL FEATURES

See **Spreader Beam V2 Use and maintenance manual** (Annex I).

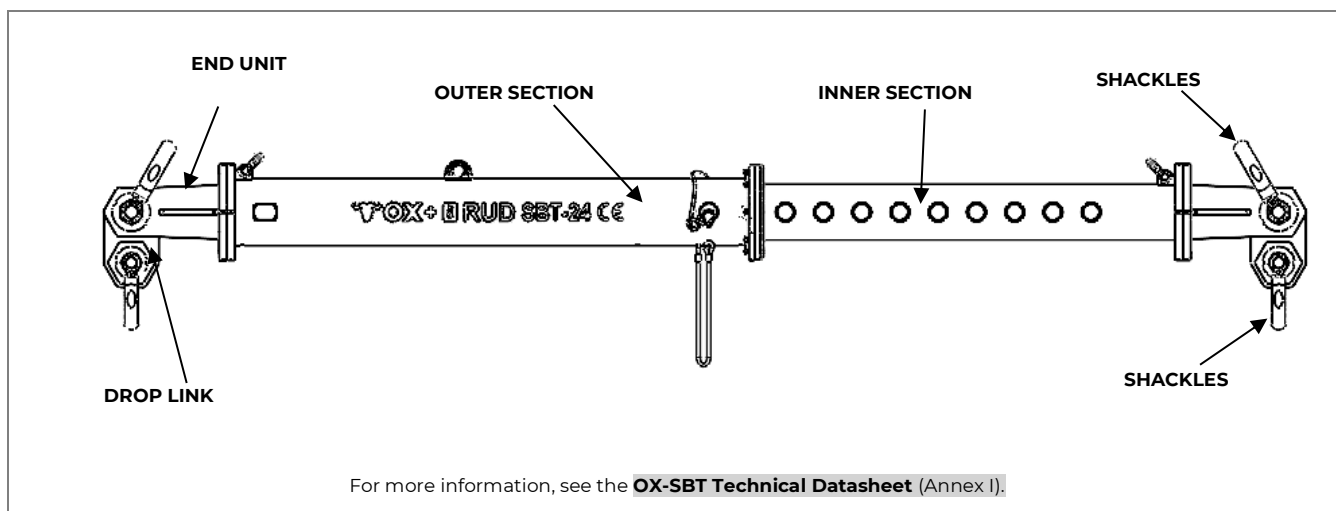
TRANSPORTING AND STORAGE

See **Spreader Beam V2 Use and maintenance manual** (Annex I).

SAFETY

See **Spreader Beam V2 Use and maintenance manual** (Annex I).

ASSEMBLY



1. Determine that the required lifting configuration is compatible with the OX Spreader Beam model and determine the combination of elements necessary to make the composition.

2. Validate the availability of the elements to form the necessary length.



The length of the Spreader must be such that the bottom slings do not deviate from the vertical by more than 6°. If necessary, the bottom accessories (slings) must be lengthened to meet this requirement.

The lengths of the top slings must be equal to or greater than the calculation length to guarantee the working angles.

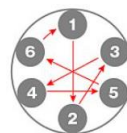
3. Inspect each element separately: Welds, deformations, and general condition of the element.
4. Place the horizontal and aligned elements in the relative position that they will occupy in the configuration on the ground or on stands and join the elements with the appropriate screws, first with a small tightening and then applying the tightening torque required in star mode.

IMPORTANT NOTE: The longest sections must be placed in the center of the set.



Check the OX-SB Product Technical Sheet (Annex I) for the measurements, quality, tightening torque of the screws and the wrench necessary to carry out the procedure. Follow all instructions and recommendations specified in the document.

(Detail image of typical star tightening for 6 screws).



5. Place the "Drop Link" (or descendent unit) between the two plates of the "End Units". The largest hole in the "Drop Link" should match the holes in the "End Unit".
6. Assemble the top slings on the top shackles (those with the highest capacity).



Respect the measurements of the top slings, in capacity and length, defined for each model according to the load, the working angle and the total length of the assembly, defined in the OX-SB Product Technical Sheet (Annex I).

7. Place the top shackle (with the sling, grommet or chain mounted) matching the hole of the pin with the holes of the "Drop Link" and "End Unit" together, leaving the "Drop Link" inside the slot of the "End Unit" and place the threaded pin, nut, and safety pin to prevent eventual loosening of the nut.
8. Repeat the process from step 3 for the other end of the set.
9. Assemble the accessories of the bottom slings on the bottom shackles (those with the smallest load capacity).
10. Place the bottom shackle (with the sling, grommet, or chain ring) matching the pin hole with the lower hole of the "Drop Link" and place the threaded pin, nut, and safety pin of the nut to prevent eventual loosening.
11. Repeat the process from step 8 for the other "Drop Link" in the set.
12. Join the free ends of the top slings with the hook that will move the assembly (crane hook). And join the free ends of the bottom slings with the load to be moved.

USAGE

For a Telescopic Spreader Beam use with an existent configuration of another Spreader Beams or Telescopic Spreaders Beams sections see **Spreader Beam V2 Use and maintenance manual (Annex I)** and execute a correct union of all the assembly components.

In the case of OX-SBT individual use for having an adjustable range for lifting loads of different lengths and weights, see **OX-SBT Technical Datasheet**, remove the locking pin, extend or retract the outer telescopic section, insert the locking pin into the locking hole of the telescopic section that meets the needs. Secure the locking pin with the quick locking pin to prevent it from being released during the manoeuvre.

CARGO HANDLING

See **Spreader Beam V2 Use and maintenance manual (Annex I)**.

The maximum capacity of the Spreader Beam depends on the length of the assembly and the working angle of the slings, check the **OX-SB Product Technical Sheet (Annex I)** to verify the capacities of a specific model. The top slings can work up to 45°. We provide formulas for determining the dimensions for typical configurations of 20°, 30° and 45° to the vertical.

MAINTENANCE

Qualified personnel must check the condition of the components and bolted joints, as well as the lifting accessories. The inspection status of the crane must also be checked, as well as that the entire lifting procedure is carried out in accordance with the Health and Safety Protection Regulations in the place where the maneuver is to be performed.

CHECKLIST		Before each use	Monthly	Annual	Other
CRANE	1.0. VALIDATE THE CAPACITY AND CONFIGURATION OF THE CRANE TO LIFT THE LOAD PLUS THE TARE OF THE LIFTING SET WITH THE REQUIRED RADIUS ACCORDING TO THE LIFTING PLAN.	X			
	1.1. TO VALIDATE THE INSPECTION STATUS OF THE CRANE IN GENERAL AND THE LOAD LIMITER IN PARTICULAR.			X	
	1.2. VISUALLY VALIDATE THE CONDITION OF THE CRANE HOOK, ITS SWIVELING AND TILTING CAPACITY AND ITS SAFETY LATCH.	X			
SPREADER BEAM	2.0. VISUALLY CHECK THAT THE WELDED JOINTS ARE FREE OF CRACKS* AND THE ELEMENTS ARE FREE OF DEFORMATIONS.	X			
	2.1. CHECK THAT THE END UNITS AND DROP LINKS ARE FREE OF DEFORMATION* WITH BURRS AND THAT THEY SWING FREELY WITHIN THE WORKING RANGE ONCE THE SHACKLES ARE ASSEMBLED.	X			
	2.2. EACH TIME A SECTION IS ASSEMBLED, CHECK THE TIGHTENING TORQUE OF ALL BOLTS AS THEY ARE ASSEMBLED, WE RECOMMEND A TORQUE WRENCH TRIP, CALIBRATE IT TO THE REQUIRED TORQUE AND THE TRIP CHECKS THE TORQUE**.				EVERY TIME AN ELEMENT IS MOUNTED
	2.3. CHECK THAT THE MOVEMENT BETWEEN SECTIONS OCCURS CORRECTLY AND THAT THERE ARE NO COLLISIONS BETWEEN THE INNER ELEMENTS.	X			
ACCESORIES	3.0. CHECK THAT THE SHACKLES ARE OF THE SIZE INDICATED IN THE COMPATIBILITY TABLE ACCORDING TO MODEL AND ARE WITHIN THE REQUIRED CAPACITY IN THE CASE OF USING A DIMENSIONALLY COMPATIBLE MODEL, BUT OF DIFFERENT CAPACITY.	X			
	3.1. CHECK THAT THE CAPACITY AND LENGTHS OF THE LIFTING ACCESSORIES ARE WITHIN THE REQUIREMENTS OF THE LOAD CONFIGURATION TO BE PERFORMED.	X			
	3.2. INSPECTION OF LIFTING ACCESSORIES IN ACCORDANCE WITH CURRENT REGULATIONS IN THE REGION OF USE***: SHACKLES TEXTILE SLINGS WIRE ROPE SLINGS GRUMMETS CHAIN SLINGS AND ACCESSORIES OTHERS			X	

*If cracks appear, perform weld inspection to determine the extent. Block use until repair and favorable re-inspection.

**If red or white rust appears on the metal fittings, they should be replaced with new ones.

***If you provide us with a list of accessories and region of use, we can prepare Specific Technical Instructions for you. Please consult our sales team.

Block use until repair and re-inspection with favorable results.

CLEANING

Keep the equipment and its accessories clean of excess grease, oil, and dirt in general to be able to properly evaluate the conditions of use of the lifting equipment and accessories.

WARRANTY

This OX & RUD product has a 12-month warranty from the date of delivery, subject to separate written notifications or agreements. The warranty covers material or manufacturing defects, once it has been verified that work has not been carried out under abnormal circumstances.

For warranty claims, it is the customer's responsibility to prepare a technical report specifying the lifting configuration performed in the manoeuvre (a Rigging Plan is necessary). The lifting configuration must be described, documenting the lifting with pictures with date of each lift, to ensure that the lifting was done correctly or not.



We guarantee the replacement of spare parts or the repair of elements by our assistance service in our workshops. The customer must send the parts to be repaired, postage paid to OX & RUD Sant Boi - Barcelona and once repaired, OX & RUD will also send them, if they are within the warranty, free of charge nationwide (Spain).

We do not guarantee compensation for possible damages, direct or indirect, to tools, machinery or people, caused by said unit. We have civil liability insurance.

EXCLUDED FROM THIS WARRANTY

- Breakdowns caused by improper use.
- Breakdowns caused by modifications and spare parts not indicated by OX & RUD.
- Damage caused by lack of maintenance (see maintenance book).
- Improper installation and start-up.
- Damage caused in transportation.
- Use in corrosive environments, acids, steam, etc.
- Use of equipment / items manufactured by other companies (for example: the use of another manufacturer)

EXPIRATION OF WARRANTY

The unit will be exempt from the particularities of the warranty in the following cases:

- In case of late payment or breach of contract.
- In case of repairs or modifications without express authorization from OX & RUD.
- When there is damage caused by incorrect use.
- For reasons that do not derive from a normal work operation.
- All disputes will be settled in the courts of Barcelona (Spain).

INSPECTIONS

Periodic inspections should be carried out with the frequency and intensity indicated by the national regulations applicable in the country where the equipment is to be used, but they should all indicate the measures necessary to ensure that work equipment subjected to influences that may cause deterioration that could lead to hazardous situations is subject to periodic checks and, where appropriate, tests, in order to ensure compliance with the safety and health provisions and to remedy such deterioration in good time. Likewise, additional checks must be carried out on such equipment whenever exceptional events occur, such as transformations, accidents, natural phenomena or prolonged lack of use, which could have detrimental consequences for safety. They should also indicate that such checks should be carried out **by competent personnel** and that the results of the checks should be documented, made **available to the labor authority** in each country and retained for the useful life of the equipment.

Once the equipment is at the customer's home, the customer will be responsible for having it checked by competent personnel and for keeping a record of these checks, carried out according to the regulations of the place where the equipment is used and according to the periods established in the Maintenance Sheet of this OPERATION AND MAINTENANCE MANUAL.



Ask our sales team or distributor network about the existence of a Service Center in your region to service this equipment as well as the lifting accessories.

INSPECTION FORMAT

SHEET N. ° ____ of ____

DATE PUT INTO SERVICE:		REVISION DATE:	
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CHECKLIST		WHEN	RESULT OK / NO OK or n/a	OBSERVATIONS:
CRANE	1.0. VALIDATE THE CAPACITY AND CONFIGURATION OF THE CRANE TO LIFT THE LOAD PLUS THE TARE OF THE LIFTING SET WITH THE REQUIRED RADIUS ACCORDING TO THE LIFTING PLAN.	Before each use		
	1.1. TO VALIDATE THE INSPECTION STATUS OF THE CRANE IN GENERAL AND THE LOAD LIMITER IN PARTICULAR.	Annual		
	1.2. VISUALLY VALIDATE THE CONDITION OF THE CRANE HOOK, ITS SWIVELING AND TILTING CAPACITY AND ITS SAFETY LATCH.	Before each use		
SPREADER BEAM	2.0. VISUALLY CHECK THAT THE WELDED JOINTS ARE FREE OF CRACKS* AND THE ELEMENTS ARE FREE OF DEFORMATIONS.	Before each use		
	2.1. CHECK THAT THE END UNITS AND DROP LINKS ARE FREE OF DEFORMATION* WITH BURRS AND THAT THEY SWING FREELY WITHIN THE WORKING RANGE ONCE THE SHACKLES ARE ASSEMBLED.	Before each use		
	2.2. EACH TIME A SECTION IS ASSEMBLED, CHECK THE TIGHTENING TORQUE OF ALL BOLTS AS THEY ARE ASSEMBLED, WE RECOMMEND A TORQUE WRENCH TRIP, CALIBRATE IT TO THE REQUIRED TORQUE AND THE TRIP CHECKS THE TORQUE.	Every time any element is assembled		
	2.3. CHECK THAT THE MOVEMENT BETWEEN SECTIONS OCCURS CORRECTLY AND THAT THERE ARE NO COLLISIONS BETWEEN THE INNER ELEMENTS.	Before each use		
ACCESSORIES	3.0. CHECK THAT THE SHACKLES ARE OF THE SIZE INDICATED IN THE COMPATIBILITY TABLE ACCORDING TO MODEL AND ARE WITHIN THE REQUIRED CAPACITY IN THE CASE OF USING A DIMENSIONALLY COMPATIBLE MODEL, BUT OF DIFFERENT CAPACITY.	Before each use		
	3.1. CHECK THAT THE CAPACITY AND LENGTHS OF THE LIFTING ACCESSORIES ARE WITHIN THE REQUIREMENTS OF THE LOAD CONFIGURATION TO BE PERFORMED.	Before each use		
	3.2. INSPECTION OF LIFTING ACCESSORIES IN ACCORDANCE WITH CURRENT REGULATIONS IN THE REGION OF USE***: SHACKLES TEXTILE SLINGS WIRE ROPE SLINGS GRUMMETS CHAIN SLINGS AND ACCESSORIES OTHERS	Annual		
	OVERALL RESULT OF THE INSPECTION: NAME: _____ COMPANY: _____			SIGNATURE: DATE:

*If cracks appear, perform weld inspection to determine the extent. Block use until repair and favourable re-inspection.

**If red or white rust appears on the metal fittings, they should be replaced with new ones.

***If you provide us with a list of accessories and region of use, we can prepare Specific Technical Instructions for you. Please consult our sales team. Block use until repair and re-inspection with favorable results.

YOU MAY COPY THIS PAGE FOR ADDITIONAL REVISION SHEETS.

INSPECTION RECORD FORMAT

SHEET N. °

SALES DATE	
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INSPECTIONS DATE	
COMPANY	
RESULT	
OBSERVATIONS	

INSPECTIONS DATE	
COMPANY	
RESULT	
OBSERVATIONS	

INSPECTIONS DATE	
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INSPECTION RECORD FORMAT

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SALES DATE	
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INSPECTIONS DATE	
COMPANY	
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INSPECTIONS DATE	
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INSPECTIONS DATE	
COMPANY	
RESULT	
OBSERVATIONS	

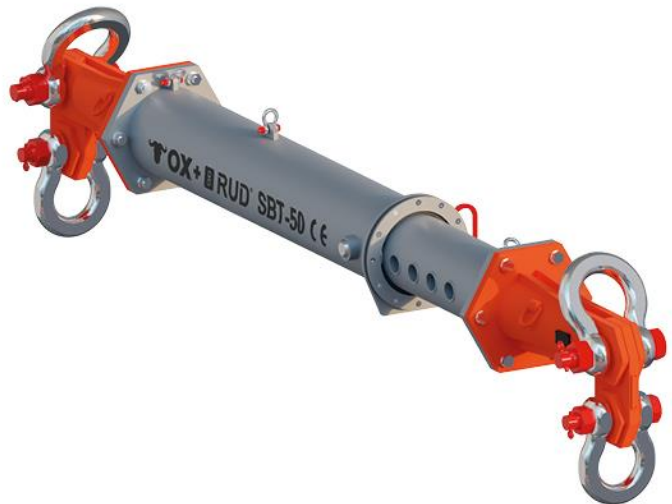
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RESULT	
OBSERVATIONS	

INSPECTIONS DATE	
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NOTES

HEAVY LIFTING EQUIPMENT



**YOUR TRUSTED
PARTNER FOR
HEAVY LIFTING
SOLUTIONS**

ANNEXES

TECHNICAL DATASHEET OF SUPPLIED PRODUCTS
DECLARATION OF CONFORMITY OF SUPPLIED PRODUCTS

