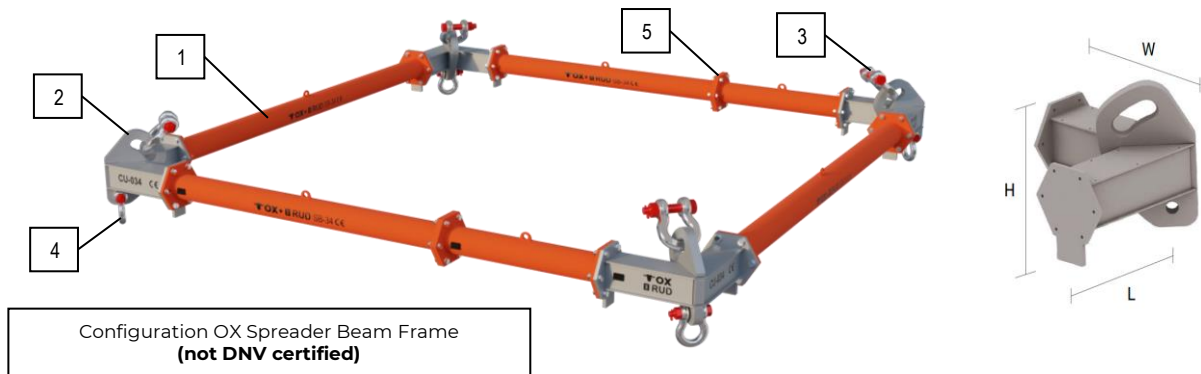


INTRODUCTION

The OX-RUD Spreader Beam Frame model is a set composed of 4 CU OX-SB-170 V3 Corner Units combined with OX-SB-170 V2 modular sections, to form a square or rectangular structure. The size of the square or rectangle can be modified by combining different OX-SB-170 V2 modular sections. The OX-RUD Spreader Beam Frame can be used from its minimum configuration of 2x2m to its maximum configuration of 24x24m. The Working Load Limit should never be exceeded or used in an unintended lifting configuration.

ASSEMBLY

It is made up of different elements that can be assembled using screwed flanges to form a specific length, connected with 4 Corner Units and the intermediate sections assembled in the central part.



COMPONENT TABLE CU OX-SB-170 V3

Part	Code	Description	Nominal Length (mm)	Dimensions L x W x H (mm)	Weight (kg)
1	80220170SXXX	OX-SB-170 Section XXXX mm	XXXX (A)	XXXX x 617 x 537	115,76 + 0,0913xL[mm]
	80220170S050	OX-SB-170 Section 500mm	500	500 x 617 x 537	160,8
	80220170S100	OX-SB-170 Section 1000mm	1000	1000 x 617 x 537	209,7
	80220170S200	OX-SB-170 Section 2000mm	2000	2000 x 617 x 537	307,4
	80220170S300	OX-SB-170 Section 3000mm	3000	3000 x 617 x 537	405,2
	80220170S400	OX-SB-170 Section 4000mm	4000	4000 x 617 x 537	503
	80220170S500	OX-SB-170 Section 5000mm	5000	5000 x 617 x 537	600,7
	80220170S600	OX-SB-170 Section 6000mm	6000	6000 x 617 x 537	698,5
2	80230170CU	OX-SB-170 1000mm Corner Unit	1000	1310 x 1310 x 1030	765
3		120t - 3 1/2" Bow Shackle safety pin (top) (B)	Variable (D)	3 1/2"	-
4		85t - 3" Bow Shackle safety pin (bottom) (B)	Variable (D)	3"	-
5		Screws 14399 HV HOT DIP GALV. 10.9 (C)	-	M20 x 90	-



(A) APPROVED NOMINAL LENGTH BETWEEN 500 AND 6000 mm.
 (B) OX & RUD RECOMMENDS LYRE-TYPE SHACKLES WITH THREADED PIN WITH NUT AND SAFETY PIN (OR WIDE-BODY SHACKLE WHEN INDICATED). CONSIDER THE LOSS OF CAPACITY (BENDING LOSS) BETWEEN THE SLINGS AND THE SHACKLES, EVEN IF THEY ARE WIDE-BODY SHACKLES, WHEN DIMENSIONING THE SLINGS.
 (C) SCREW TIGHTENING TORQUE: 180 NM. NEVER EXCEED THIS TIGHTENING TORQUE. SPANNER SIZE 32MM.
 (D) VARIABLE LENGTH DEPENDING ON THE BRAND AND MODEL USED.

MATERIAL AND FINISH

The device is constructed from welded structural steel, sandblasted and painted in accordance with ISO 12944 category C2 or other finishes on request.

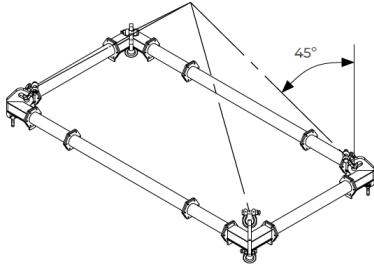
TEMPERATURE

The elements of the OX Spreader Beams OX-SB-170 range defined in this Technical Data Sheet can be used in a temperature range between -20°C and 80°C, as they have been dimensioned and validated within this range.

LOAD CYCLE CLASSES

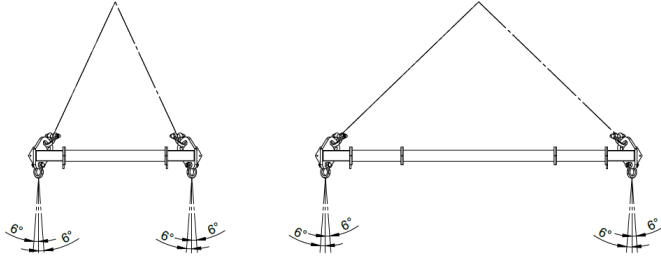
The products in the OX-SB Spreader Beam range are designed to withstand ≤ 16,000 load cycles, which corresponds to type U0 for total number of working cycles in accordance with standard EN 13155:2020 + A1:2025.

Upper angle: max. 45°



The upper slings of the Spreader Beam Frame, work at a maximum of 45° from the vertical.

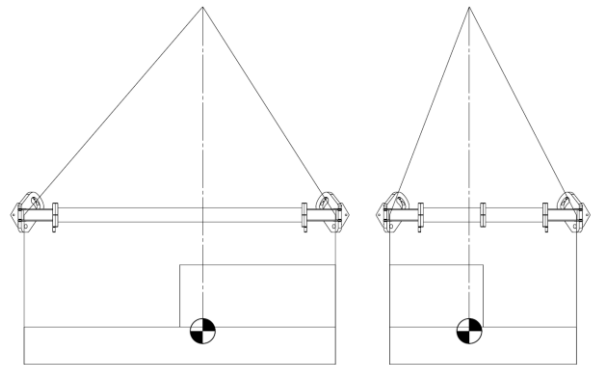
Bottom angle: max. ± 6°



The bottom slings of the Spreader Beam Frame work at a maximum of +/-6° from the vertical.

IMPORTANT NOTES

- It is convenient to lubricate the top shackle (Bow) and the upper hole of the Corner Unit lugs to allow the shackle to swing and orient smoothly when tensioning the upper branches while hoisting the Spreader Beam Frame.
- Check that the top shackle (bow) is in contact with the Corner Unit lugs.
- Never exceed the W.L.L. capacity for the selected configuration (working lengths and angles).
- Under no circumstances is it allowed to lift loads directly from the sections or flange unions. The Spreader Beam Frame are designed exclusively for compression use, always using the lower hooks of the Corner Units. Check that the Spreader Beam Frame is only loaded by the Corner Units.
- Check that Gravity Center (GC) of the load is centered with the crane hook. The load distribution on the Spreader Beam Frame must be distributed among all lifting points, ensuring that none of these lifting points exceeds the maximum W.L.L. of the individual Corner Unit:
 - o **With symmetric loads**, the load weight is uniformly distributed between all lifting points.
 - o **With asymmetric loads**, the load weight is not uniformly distributed between all lifting points (**IMPORTANT: never exceed the maximum capacity of the individual Corner Units**).



Asymmetric loads (offset GC)

The CU-170 V3 units have a maximum individual capacity:

- **62,5t each** (250t combined capacity) **[30° angle]**
- **42,5t each** (170t combined capacity) **[45° angle]**

