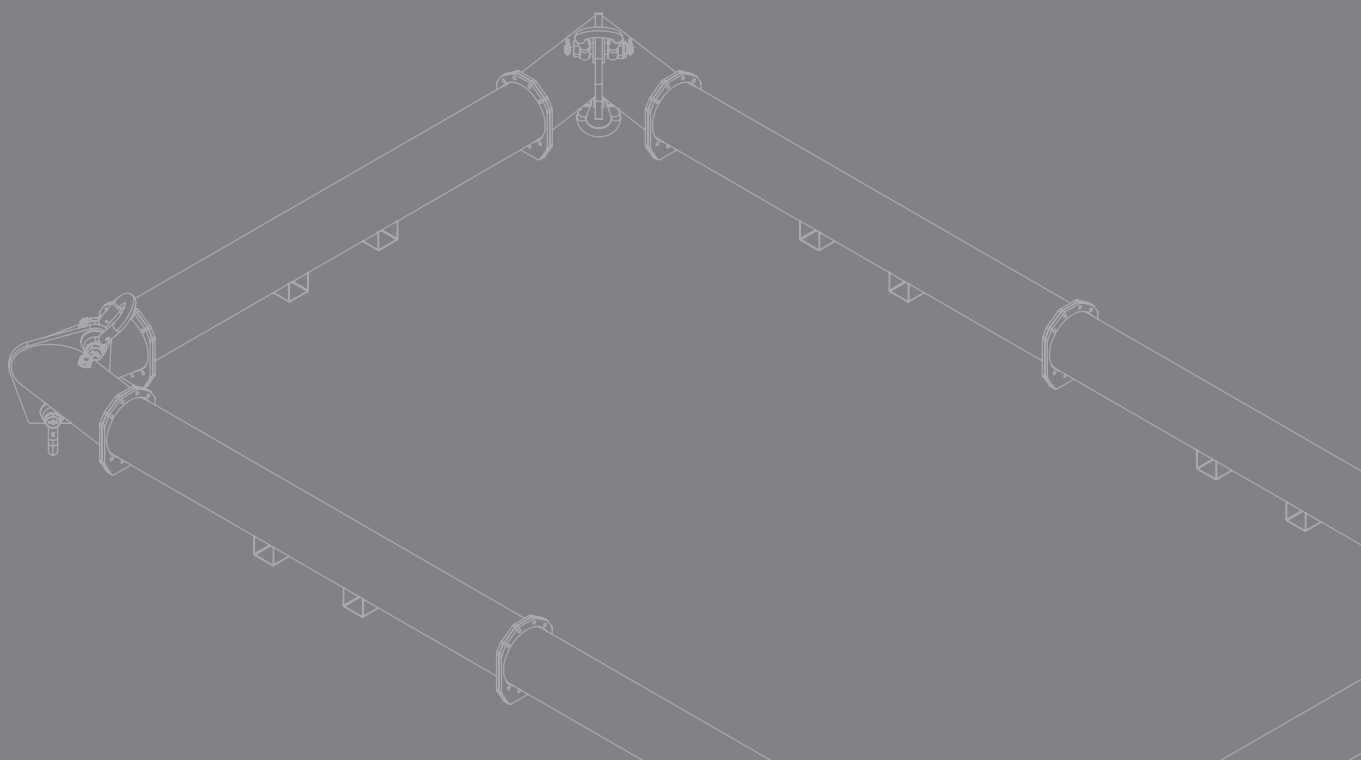




HI SB 300

Modular spreader frame
User Manual

HI SB 300

Modular spreader frame

User Manual



Introduction

The HI SB 300 is a spreader frame designed for carrying loads. The HI SB 300 may only be assembled and used by suitably skilled staff. This user manual tells you the correct way to assemble the HI SB 300 in the desired configuration and how you can use it safely. Always keep this user manual in a safe place near the HI SB 300.

Product Description

The HI SB 300 has a modular construction and it comprises a set of corner sections, associated shackles and various struts. The lengths of the struts vary from half a meter to six metres. See Figure 1, Figure 2 and Table 1 for more information about the various parts.

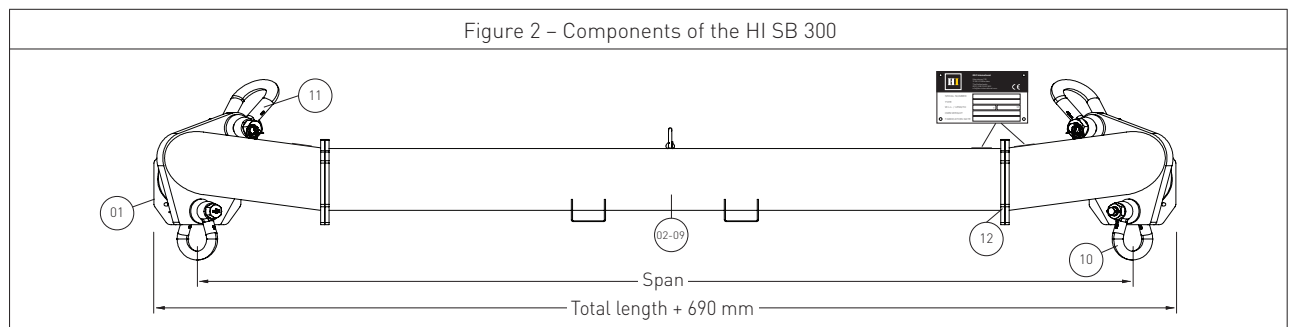
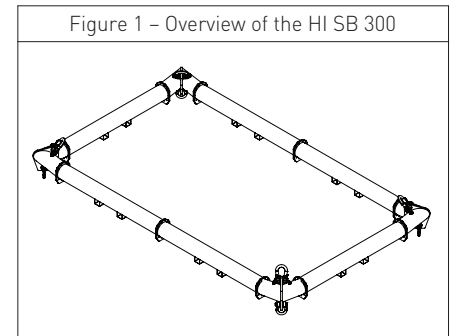


Table 1 - Components	#	Type	Description	Specifications	Weight (kg)	Qty
	01	HI SB 300 01	HI Corner section	1m	800	4
	02	HI SB 300 05	HI Strut	0,50m	160	*
	03	HI SB 300 10	HI Strut	1m	234	*
	04	HI SB 300 15	HI Strut	1,5m	362	*
	05	HI SB 300 20	HI Strut	2m	400	*
	06	HI SB 300 30	HI Strut	3m	547	*
	07	HI SB 300 40	HI Strut	4m	695	*
	08	HI SB 300 50	HI Strut	5m	843	*
	09	HI SB 300 60	HI Strut	6m	991	*
	10	P-6036	Green Pin shackle	WLL 120t	114	4
	11	P-6036	Green Pin shackle	WLL 150t	155	4
	12	Grade 8.8	Bolts, Nuts and Washers	M24x90	8 pcs per connection	

*Depending on the configuration.



Safety Instructions

- Use the hoisting eyes at the tops of the strut or corner section only for moving a single component.
- Never use the HI SB 300 if the information on the documents supplied with it does not match the data on the identification plate.
- Never exceed the working load limit. See Table 2 and Table 3 for additional information.
- Never use less than the mandatory minimum sling length. See Table 4 for more information.
- Never use the HI SB 300 if the angle of the lower slings is more than 6 degrees from perpendicular.
- Always use suitable and certified slings.
- Use ropes to guide the load while it is being moved.
- Never use the HI SB 300 for lifting people.
- Never use the HI SB 300 if the annual inspection has not taken place or if it has expired. Make sure that the HI SB 300 is inspected and declared to be safe at least annually by a certified inspector of hoisting equipment.
- Never make alterations to the HI SB 300. Modifications can have consequences for safety.
- Never suspend loads from the struts or the flanges of the HI SB 300.
- Observe the locally applicable legislation and regulations about the use of the crane from which the HI SB 300 is suspended.



Assembly

1. Lay out the struts with the longest strut in the middle in the desired configuration on a flat and clean surface.
2. Connect up each flange using 8 pcs. M24x90 8.8 bolts, nuts and washers.
3. Tighten the bolts in stages, using a diagonal pattern. See Figure 3 for additional information. Use the tightening torques
 - Step 1: 50 per cent, i.e. 125 Nm
 - Step 2: 80 per cent, i.e. 200 Nm
 - Step 3: 100 per cent, i.e. 250 Nm
4. Fit the Green Pin shackle (P-6036), WLL 150 tons, in the top hole in each corner section.
5. Use the sling to attach the HI SB 300 to the crane hook. When doing so, take account of the desired vertex angle, the sling length and the size of the load. See Figure 4 and Table 4 for more information.
6. Fit the Green Pin shackle (P-6036), WLL 120 tons, in the bottom hole in each corner section.
7. Get the HI SB 300 checked before use by a suitably competent member of staff or an external specialist.

Table 2 – Working load - $\beta = 60^\circ$ - WLL = tons*																				383
20																				382
19																				382
18																				382
17																				382
16																				382
15																				382
14																				382
13																				382
12																				382
11																				382
10																				382
9																				382
8																				382
7																				382
6																				382
5																				382
4																				382
3																				382
2																				382

Table 3 – Working load - $\beta = 90^\circ$ - WLL = tons*																				328
20																				328
19																				328
18																				328
17																				328
16																				328
15																				328
14																				328
13																				328
12																				328
11																				328
10																				328
9																				328
8																				328
7																				328
6																				328
5																				328
4																				328
3																				328
2																				328

*Other configurations are possible (see data sheet).

Table 4 – Top sling - $\beta = 60^\circ$ - In metres*																				27
20																				25,6
19																				24,1
18																				24,9
17																				24,2
16																				24,9
15																				24,3
14																				24,3
13																				24,3
12																				24,3
11																				24,3
10																				24,3
9																				24,3
8																				24,3
7																				24,3
6																				24,3
5																				24,3
4																				24,3
3																				24,3
2																				24,3

Figure 3 – Pattern for tightening the bolts diagonally

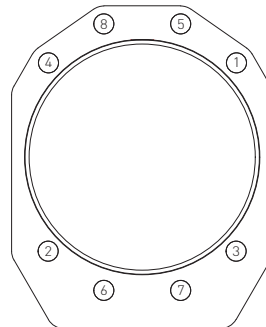
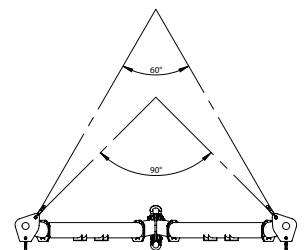
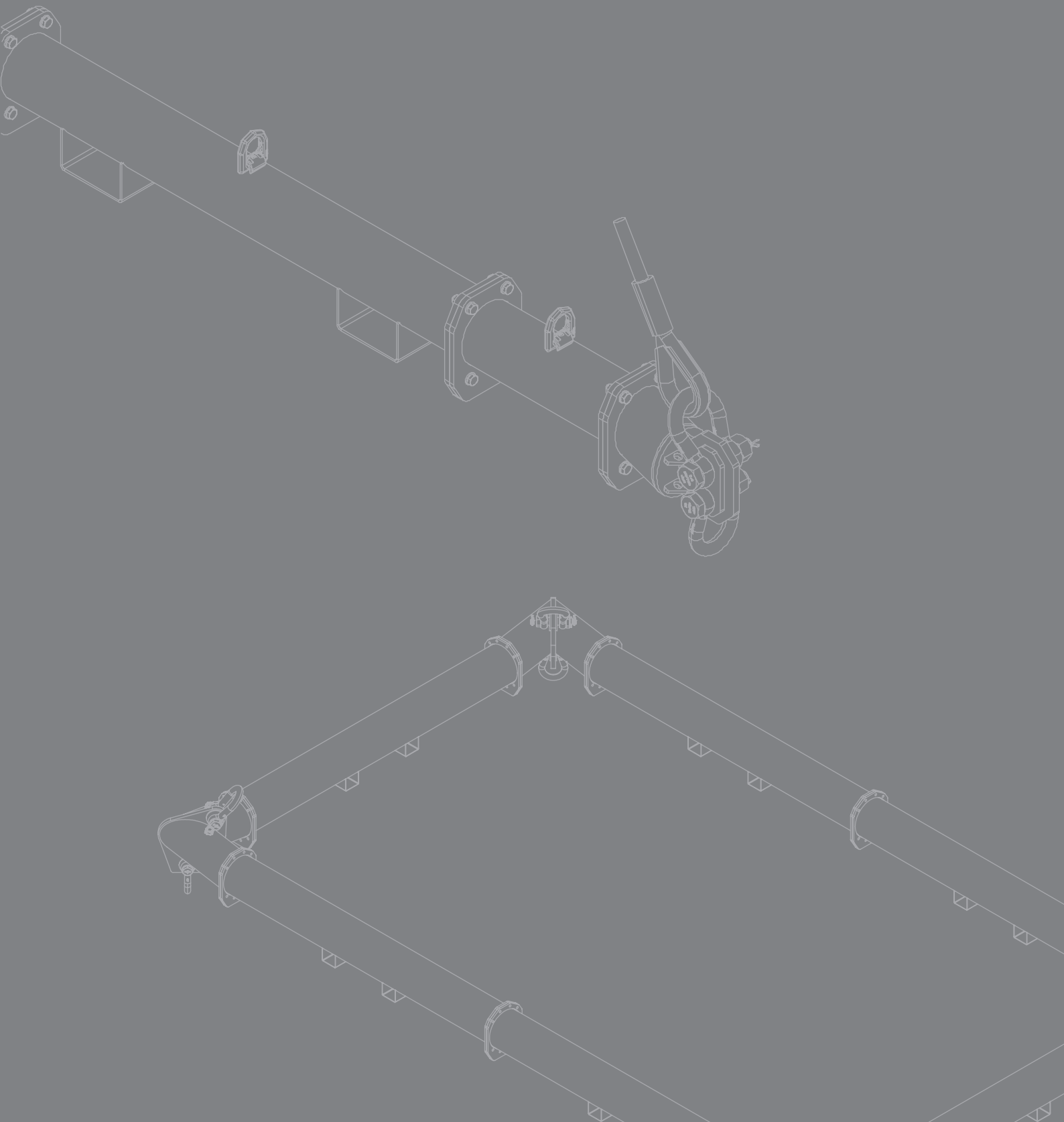


Figure 4 – Desired vertex angle for the sling



*When using $\beta = 90^\circ$, multiply the stated sling length by 0.707



KSC International BV

Moezelweg 128

3198 LS Europoort Rotterdam

Tel. 0031 88 25 00 999

info@ksc-international.com

www.ksc-international.com