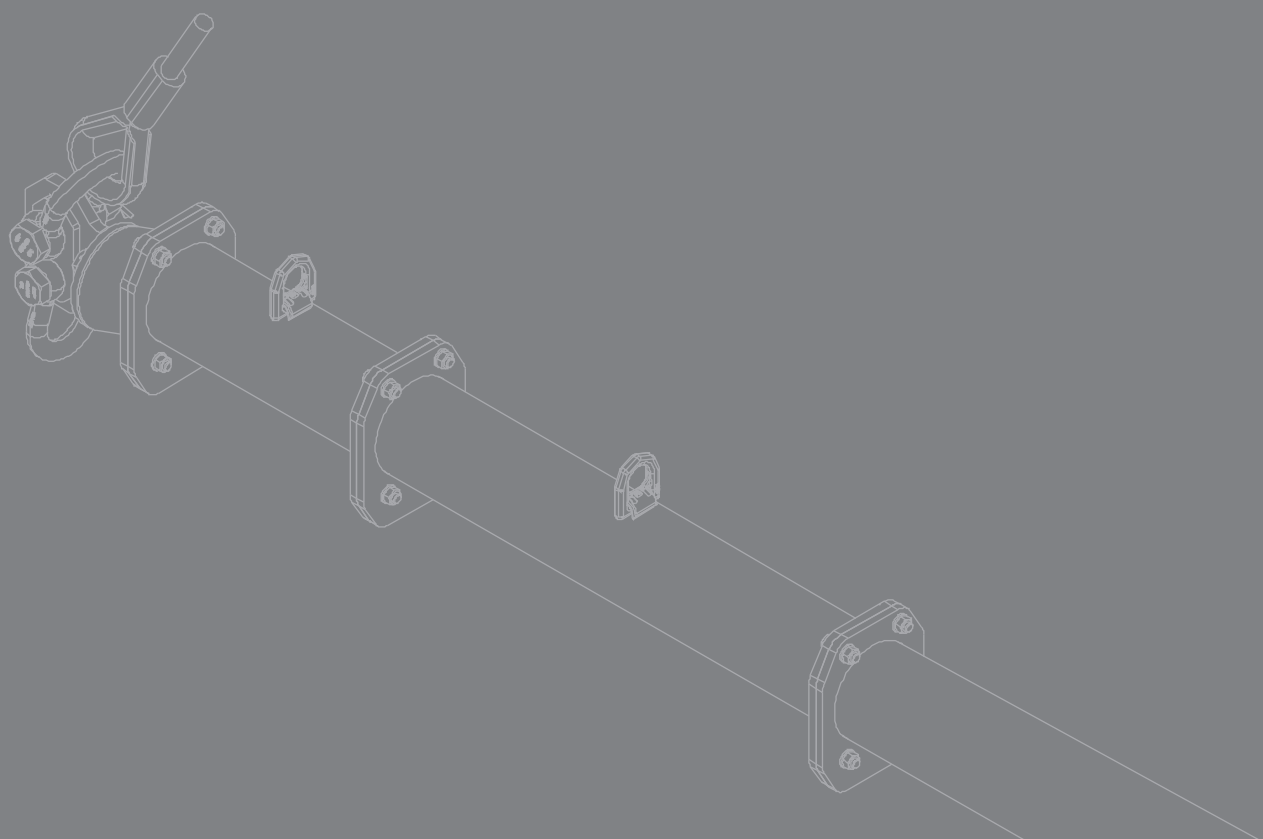




HI SB 300

Modular spreader system
User Manual

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User Manual



Introduction

The HI SB 300 is a spreader system 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 end unit, 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.

Figure 1 – Overview of the HI SB 300

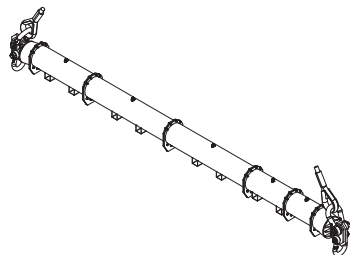


Figure 2 – Components of the HI SB 300

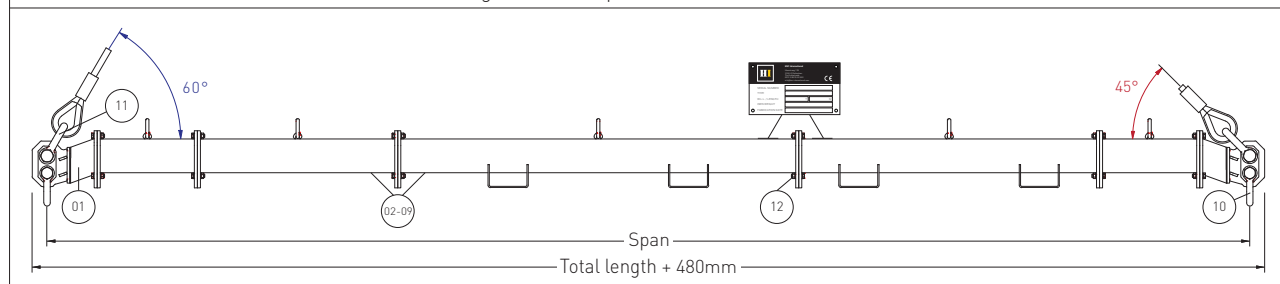


Table 1 – Components	#	Type	Description	Specifications	Weight (kg)	Qty
	01	HI SB 300 00	HI End unit	0,75m	438	2
	02	HI SB 300 05	HI Strut	0,50m	160	*
	03	HI SB 300 10	HI Strut	1m	234	*
	04	HI SB 300 15	HI Strut	1,5m	362	*
	05	HI SB 300 20	HI Strut	2m	400	*
	06	HI SB 300 30	HI Strut	3m	547	*
	07	HI SB 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 150t	155	2
	11	P-6036	Green Pin shackle	WLL 200t	235	2
	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 end unit 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 for additional information.
- Never use less than the mandatory minimum sling length. See Table 2 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.



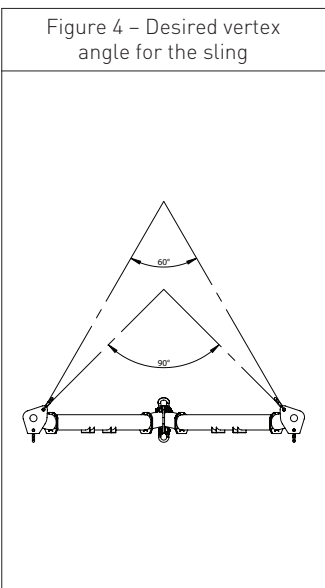
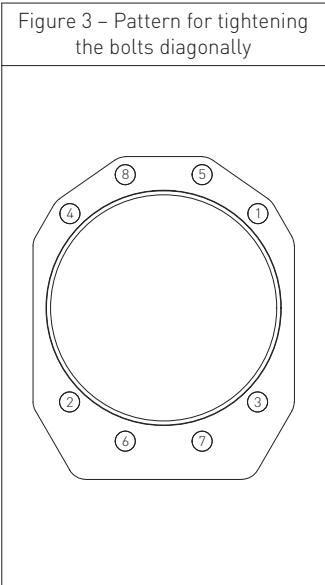
Assembly

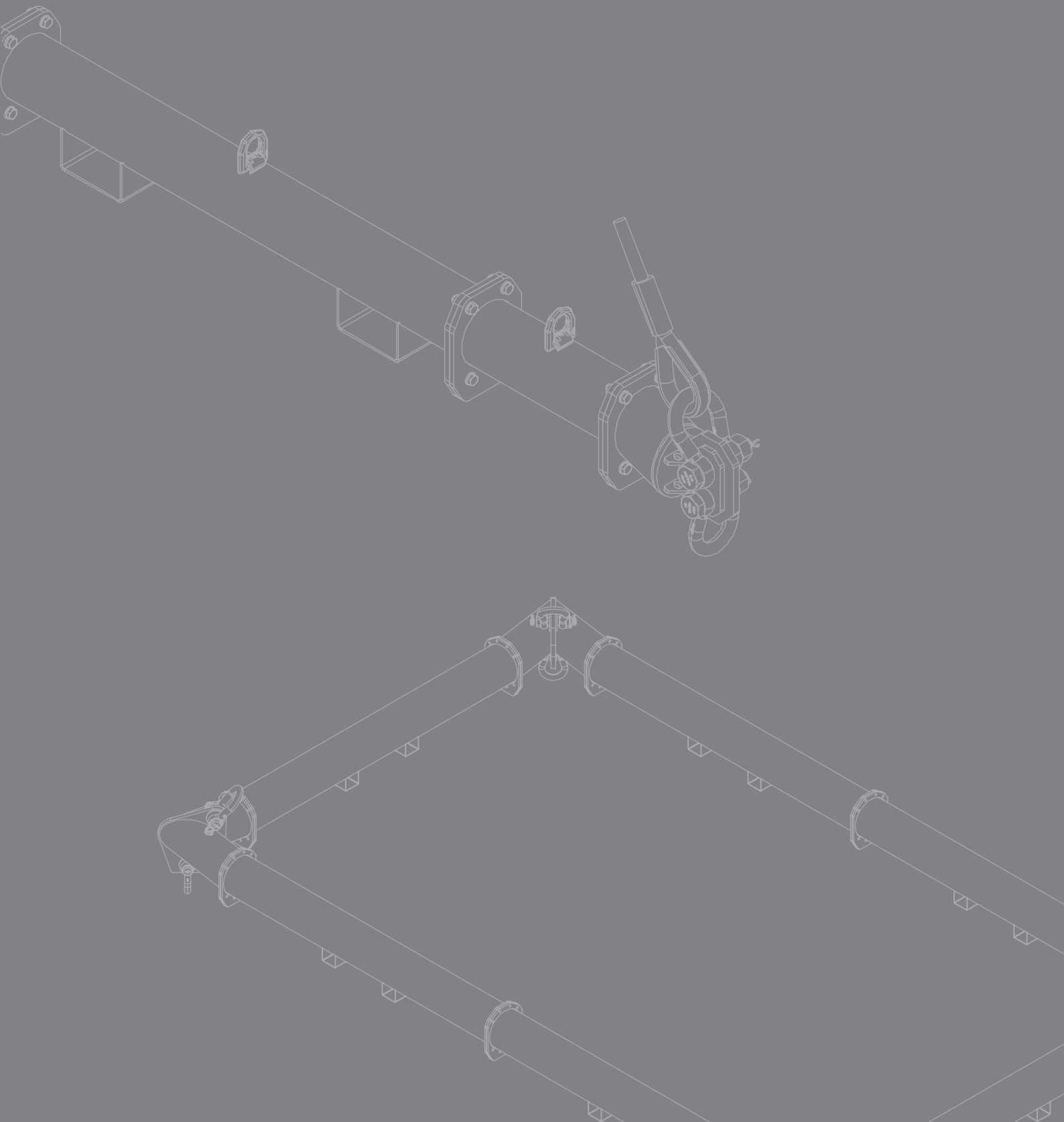
1. Lay out the struts with the longest strut in the middle in the desired configuration on a flat and clean surface.
2. Connect up each flange using 8 pcs. M24x90 8.8 bolts, nuts and washers.
3. Tighten the bolts in stages, using a diagonal pattern. See Figure 3 for additional information. Use the tightening 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 end unit.
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 2 for more information.
6. Fit the Green Pin shackle (P-6036), WLL 120 tons, in the bottom hole in each end unit.
7. Get the HI SB 300 checked before use by a suitably competent member of staff or an external specialist.

	Lifting angle top sling-vertical 60°			Recommended configuration²							Lifting angle top sling-vertical 90°			
	Length	WLL	Sling¹								Length	WLL	Sling¹	
	1,5m	291t	1,5m	<	>						1,5m	264t	1,2m	
	2m	296t	2m	<	0,5	>					2m	264t	1,6m	
	2.5m	299t	2.5m	<	1	>					2.5m	264t	2m	
	3m	300t	3m	<	1	0,5	>				3m	264t	2,4m	
	3.5m	300t	3.5m	<	2	>					3.5m	264t	2,8m	
	4m	300t	4m	<	2	0,5	>				4m	264t	3,2m	
	4.5m	300t	4.5m	<	3	>					4.5m	263t	3,6m	
	5m	300t	5m	<	3	0,5	>				5m	263t	4m	
	5.5m	300t	5.5m	<	4	>					5.5m	263t	4,4m	
	6m	300t	6m	<	4	0,5	>				6m	263t	4,8m	
	6.5m	300t	6.5m	<	4	1	>				6.5m	263t	5,2m	
	7m	300t	7m	<	1	4	0,5	>			7m	263t	5,6m	
	7.5m	300t	7.5m	<	4	2	>				7.5m	263t	6m	
	8m	300t	8m	<	2	4	0,5	>			8m	262t	6,4m	
	8.5m	300t	8.5m	<	2	4	1	>			8.5m	262t	6,8m	
	9m	300t	9m	<	3	4	0,5	>			9m	262t	7,2m	
	9.5m	300t	9.5m	<	4	4	>				9.5m	262t	7,6m	
	10m	300t	10m	<	4	4	0,5	>			10m	262t	8m	
	10.5m	300t	10.5m	<	4	4	1	>			10.5m	262t	8,4m	
	11m	300t	11m	<	1	4	4	0,5	>		11m	261t	8,8m	
	11.5m	300t	11.5m	<	2	4	4	>			11.5m	261t	9,2m	
	12m	300t	12m	<	2	4	4	0,5	>		12m	261t	9,6m	
	12.5m	299t	12.5m	<	3	4	4	>			12.5m	261t	10m	
	13m	299t	13m	<	3	4	4	0,5	>		13m	261t	10,4m	
	13.5m	299t	13.5m	<	4	4	4	>			13.5m	261t	10,8m	
	14m	299t	14m	<	4	4	4	0,5	>		14m	260t	11,2m	
	14.5m	299t	14.5m	<	4	4	4	1	>		14.5m	260t	11,6m	
	15m	299t	15m	<	1	4	4	4	0,5		15m	260t	12m	
	15.5m	298t	15.5m	<	2	4	4	4	>		15.5m	260t	12,4m	
	16m	298t	16m	<	2	4	4	4	0,5	>	16m	260t	12,8m	
	16.5m	298t	16.5m	<	3	4	4	4	>		16.5m	260t	13,2m	
	17m	298t	17m	<	3	4	4	4	0,5	>	17m	260t	13,5m	
	17.5m	298t	17.5m	<	4	4	4	4	>		17.5m	259t	13,9m	
	18m	298t	18m	<	4	4	4	4	0,5	>	18m	259t	14,3m	
	18.5m	298t	18.5m	<	1	4	4	4	4	>	18.5m	256t	14,7m	
	19m	297t	19m	<	1	4	4	4	4	0,5	>	19m	245t	15,1m
	19.5m	297t	19.5m	<	2	4	4	4	4	>	19.5m	234t	15,5m	
	20m	297t	20m	<	2	4	4	4	4	0,5	>	20m	224t	15,9m
	20.5m	297t	20.5m	<	3	4	4	4	4	>	20.5m	214t	16,3m	
	21m	297t	21m	<	3	4	4	4	4	0,5	>	21m	204t	16,7m
	21.5m	297t	21.5m	<	4	4	4	4	4	>	21.5m	195t	17,1m	
	22m	296t	22m	<	4	4	4	4	4	0,5	>	22m	186t	17,5m
	22.5m	296t	22.5m	<	3	4	6	4	4	>	22.5m	177t	17,9m	
	23m	289t	23m	<	3	4	6	4	4	0,5	>	23m	168t	18,3m
	23.5m	275t	23.5m	<	4	4	6	4	4	>	23.5m	160t	18,7m	
	24m	262t	24m	<	4	4	6	4	4	0,5	>	24m	152t	19,1m
	24.5m	250t	24.5m	<	3	6	6	4	4	>	24.5m	145t	19,5m	
	25m	238t	25m	<	3	6	6	4	4	0,5	>	25m	138t	19,9m
	25.5m	226t	25.5m	<	4	6	6	4	4	>	25.5m	131t	20,3m	
	26m	215t	26m	<	4	6	6	4	4	0,5	>	26m	124t	20,7m
	26.5m	205t	26.5m	<	3	6	6	6	4	>	26.5m	118t	21,1m	
	27m	194t	27m	<	3	6	6	6	4	0,5	>	27m	112t	21,5m
	27.5m	185t	27.5m	<	4	6	6	6	4	>	27.5m	106t	21,9m	
	28m	175t	28m	<	4	6	6	6	4	0,5	>	28m	100t	22,3m
	28.9m	166t	28.5m	<	3	6	6	6	6	>	28.9m	95t	23m	
	29m	158t	29m	<	3	6	6	6	6	0,5	>	29m	90t	23,1m
	29.5m	149t	29.5m	<	4	6	6	6	6	>	29.5m	85t	23,5m	
	30m	141t	30m	<	4	6	6	6	6	0,5	>	30m	20t	23,9m

¹⁾ Top sling - minimum sling length measured from inside eye to inside eye.

²⁾ Other configurations are possible. However, the configuration should consist as less struts as possible.
NB! The longest strut should always be in the middle of the spreader beam.





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