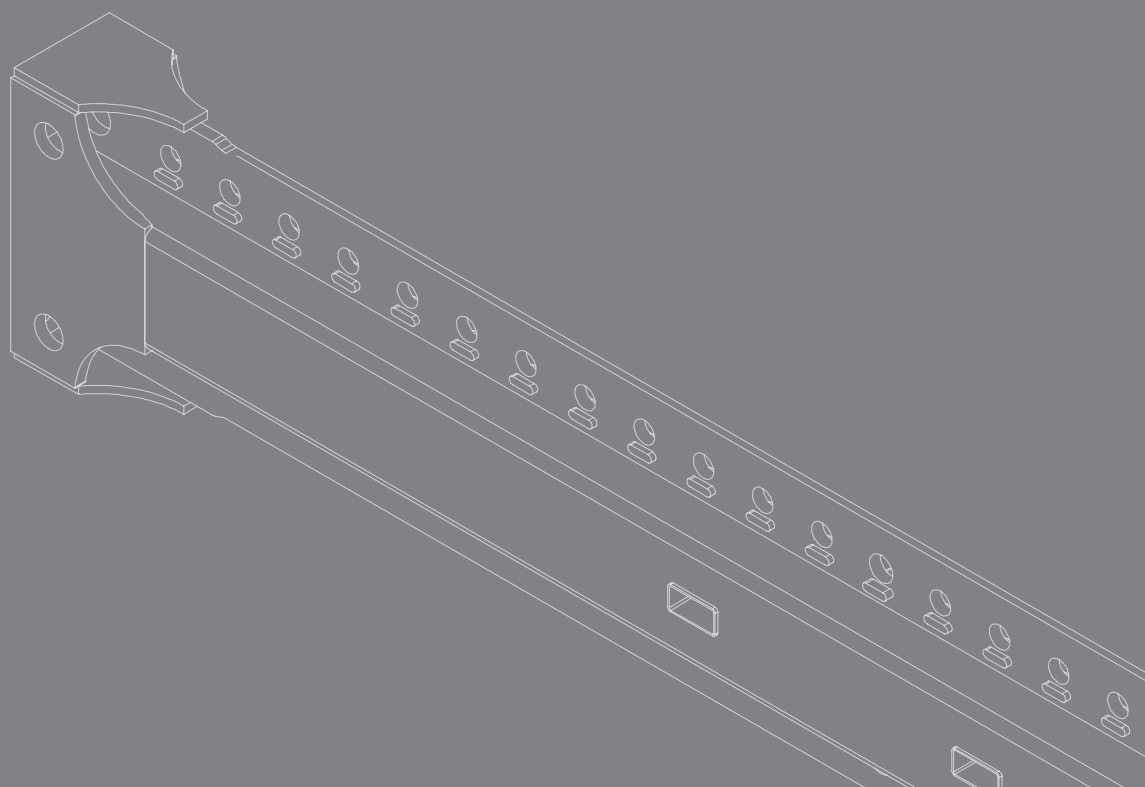




HI ML 100

Multilug system
User Manual

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Introduction

The HI ML 100 is a multilug system designed for carrying loads.

The HI ML 100 may only be assembled and used by suitably skilled staff. This user manual tells you the correct way to assemble the HI ML 100 and how to use it safely. Always keep this user manual in a safe place near the HI ML 100.

Product Description

The HI ML 100 can be used in various configurations. A single multilug has a working length of 6 metres. A coupled multilug has a working length of 13 metres. The maximum working load (WLL) of the HI ML 100 is 100 tons.

Figure 1 – Overview of the HI ML 100

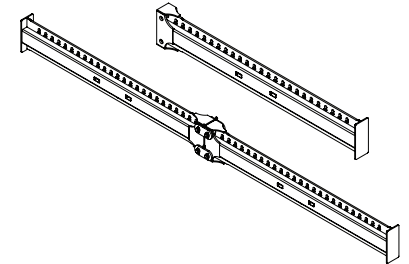
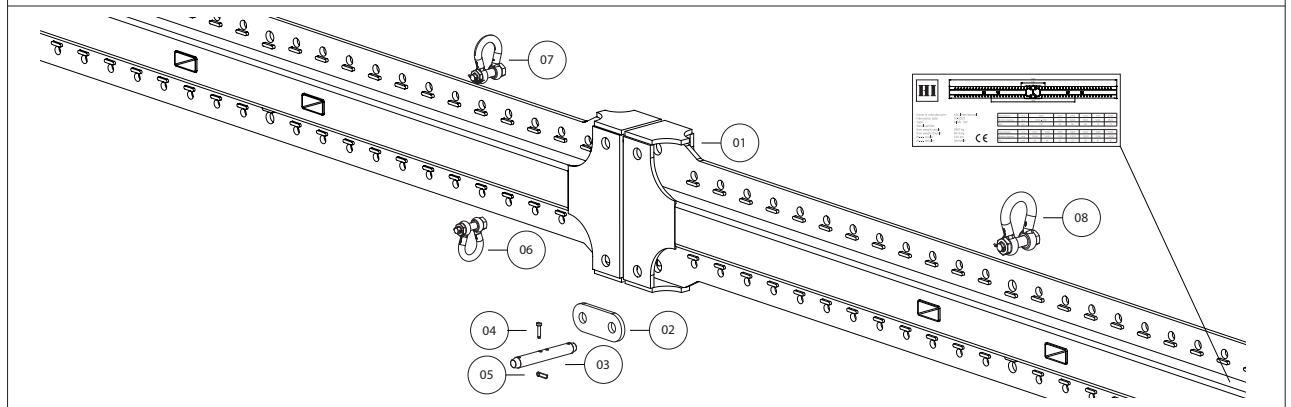


Figure 2 – Components of the HI ML 100



Tabel 1 - Components of the HI ML 100

#	Type	Description	Specifications	Weight (kg)	Qty single	Qty coupled
01	HI ML 100	HI Multilug	6m	3987	1	2
02	403	Coupling plate	PLATE 45	61	*	4
03	501	Coupling pin	ROD Ø120	56	*	8
04	503	Locking pin	ROD Ø35	0,5	*	16
05	BS009	Circlip	Alcomex Ø5	0,1	*	16
06	G-4163	Green Pin shackle	WLL 55t	39,6	2	2
07	G-4163	Green Pin shackle	WLL 85t	62	2	2
08	P-6036	Green Pin shackle	WLL 120t	110	1	*

*does not apply



Safety Instructions

- Never use the HI ML 100 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 more information.
- Never use the HI ML 100 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 ML 100 for lifting people.
- Never use the HI ML 100 if the annual inspection has not taken place or if it has expired. Make sure that the HI ML 100 is inspected and declared to be safe at least annually by a certified inspector of hoisting equipment.
- Never make alterations to the HI ML 100. Modifications can have consequences for safety.
- Observe the locally applicable legislation and regulations about the use of the crane from which the HI ML 100 is suspended.



Single assembly of the HI ML 100 multilug

1. Clean the HI ML 100 multilug.
2. Position the HI ML 100 multilug on a flat and clean surface.
3. Determine the number of shackles:
 - When using a single shackle, fit the Green Pin shackle (P-6036) with a WLL of 120 tons in the upper centre hole of the HI ML 100 multilug.
 - When using a double shackle, fit two Green Pin shackles (G-4163) with a WLL of 85 tons in the desired upper holes of the HI ML 100 multilug.
4. Use a sling to attach the HI ML 100 multilug to the crane's hook. When doing so, take account of the desired vertex angle, the sling length and the weight of the load. See Figure 5 and Table 2 for more information.
5. Fit two Green Pin shackles (G-4163) with a WLL of 55 tons in the desired bottom holes of the HI ML 100 multilug.
6. Get the HI ML 100 multilug checked before use by a suitably competent member of staff or an external specialist.



Coupled assembly of the HI ML 100 multilug

1. Clean the HI ML 100 multilugs and the coupling pieces.
2. Position the HI ML 100 multilugs and coupling pieces on a flat and clean surface.
3. Place the HI ML 100 multilugs one behind the other and slide the ends together.
4. Fit the 4 pcs coupling pins. Use a plastic hammer if necessary. See figure 3.
5. Fit locking pins 1 and 2 including the circlip on each coupling pin. See figure 4.
6. Fit first the bottom coupling plates and then the upper coupling plates. See figure 3.
7. Fit locking pins 3 and 4 including the circlip on each coupling pin. See figure 4.
8. Fit two Green Pin shackles (G-4163) with a WLL of 85 tons centred at the top and at least 2 metres apart.
9. Use a sling to attach the HI ML 100 to the crane's hook. When doing so, take account of the desired vertex angle, the sling length and the weight of the load. See Figure 5 and Table 2 for more information.
10. Fit two Green Pin shackles (G-4163) with a WLL of 55 tons in the desired bottom holes of the HI ML 100 multilug.
11. Get the HI ML 100 multilug checked before use by a suitably competent member of staff or an external specialist.

Top distance	mm	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Bottom distance	mm	7000	7500	8000	8500	9000	9500	10000	10500	11000	11500	12000	12500	13000
WLL	tons	100	95	85	80	75	70	65	61	56	53	50	47	45

* With a single HI ML 100 multilug in any configuration the maximum working load is 100t.

Figure 3 – Fitting the coupling plate and coupling pin

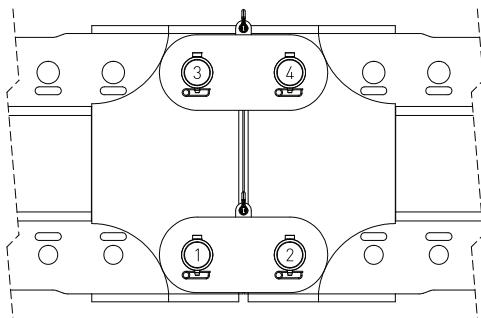


Figure 4 – Fitting the locking pin and circlip

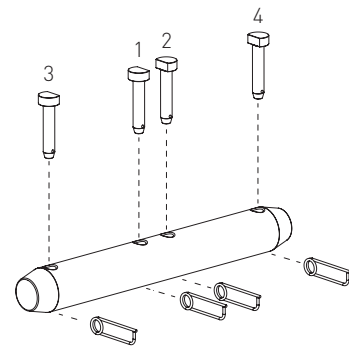


Figure 5 – Overview of the HI ML 100

