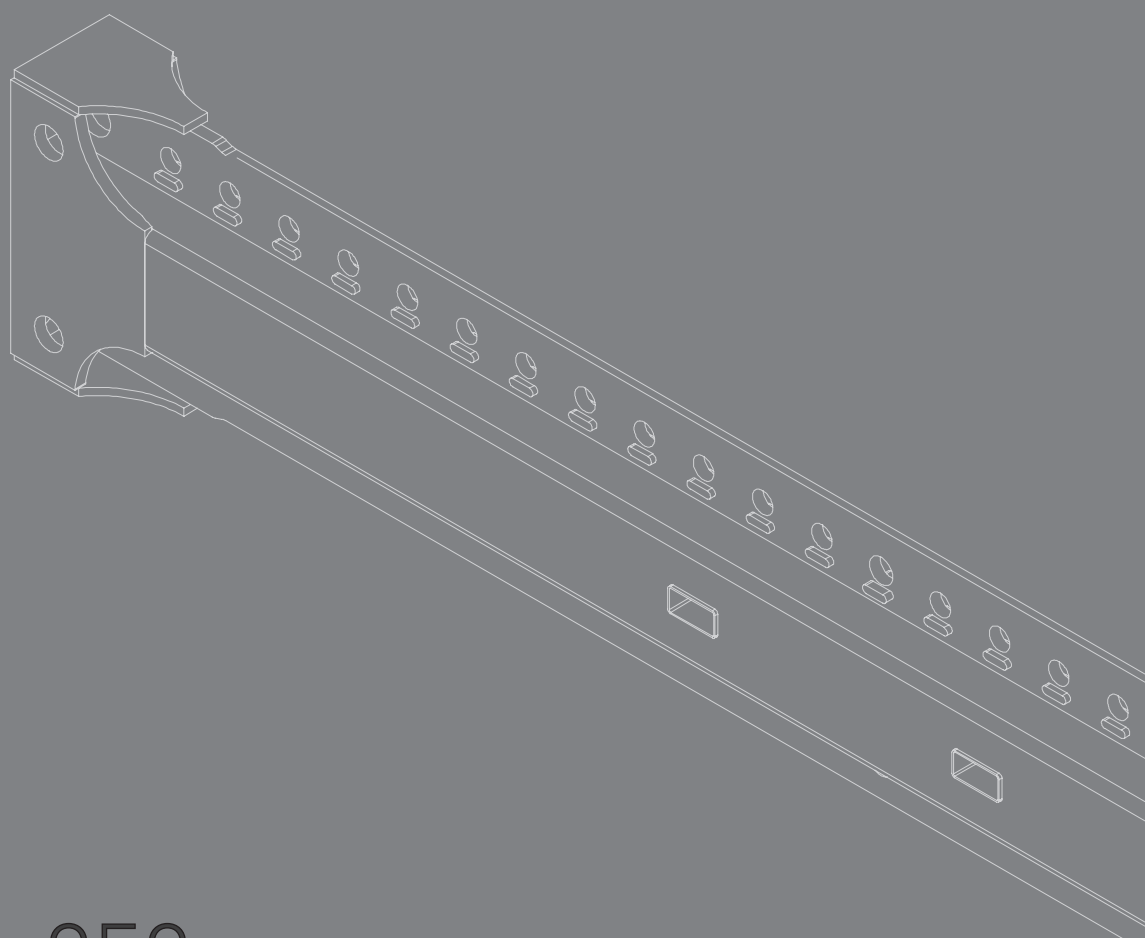




HI ML 050  
Multilug system

# HI ML 050

## Multilug System

### User Manual



#### Introduction

The HI ML 050 is a multilug system designed for carrying loads.

The HI ML 050 may only be assembled and used by suitably skilled staff. This user manual tells you the correct way to assemble the HI ML 050 and how to use it safely. Always keep this user manual in a safe place near the HI ML 050.

#### Product Description

The HI ML 050 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 050 is 50 tons.

Figure 1 – Overview of the HI ML 050

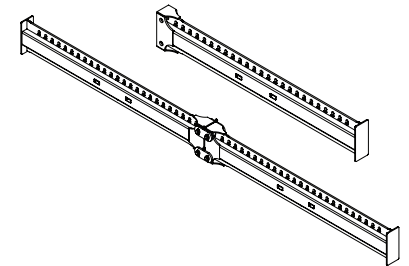
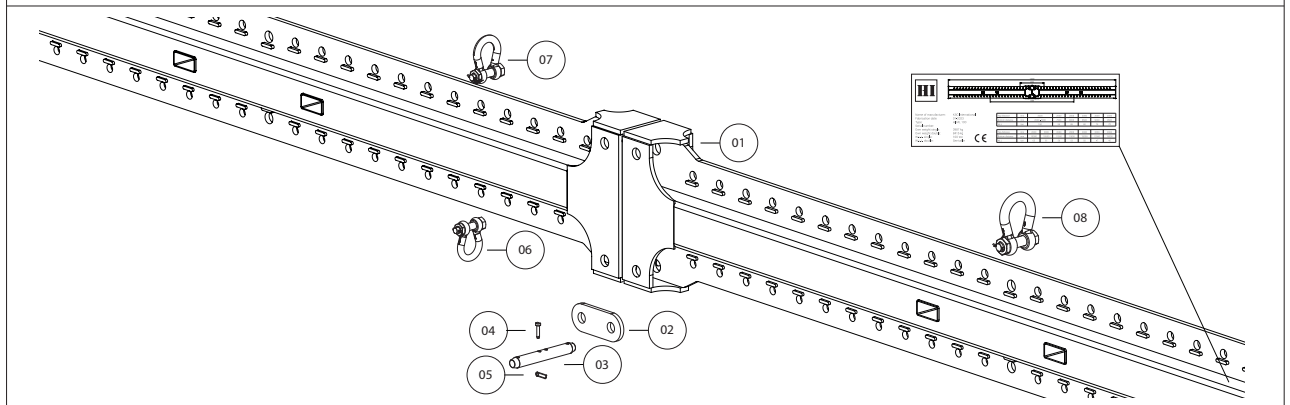


Figure 2 – Components of the HI ML 050



Tabel 1 - Components of the HI ML 050

| #  | Type      | Description       | Specifications | Weight (kg) | Qty single | Qty coupled |
|----|-----------|-------------------|----------------|-------------|------------|-------------|
| 01 | HI ML 050 | HI Multilug       | 6m             | 2565        | 1          | 2           |
| 02 | 403       | Coupling plate    | PLATE 30       | 19,4        | *          | 4           |
| 03 | 501       | Coupling pin      | ROD Ø75        | 18,2        | *          | 8           |
| 04 | 503       | Locking pin       | ROD Ø35        | 0,3         | *          | 16          |
| 05 | BS009     | Circlip           | Alcomex Ø4     | 0,1         | *          | 16          |
| 06 | G-4163    | Green Pin shackle | WLL 25t        | 14,72       | 2          | 2           |
| 07 | G-4163    | Green Pin shackle | WLL 35t        | 19,85       | 2          | 2           |
| 08 | G-4163    | Green Pin shackle | WLL 55t        | 39,6        | 1          | *           |

\*does not apply



#### Safety Instructions

- Never use the HI ML 050 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 050 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 050 for lifting people.
- Never use the HI ML 050 if the annual inspection has not taken place or if it has expired. Make sure that the HI ML 050 is inspected and declared to be safe at least annually by a certified inspector of hoisting equipment.
- Never make alterations to the HI ML 050. Modifications can have consequences for safety.
- Observe the locally applicable legislation and regulations about the use of the crane from which the HI ML 050 is suspended.



### Single assembly of the HI ML 050 multilug

1. Clean the HI ML 050 multilug.
2. Position the HI ML 050 multilug on a flat and clean surface.
3. Determine the number of shackles:
  - When using a single shackle, fit the Green Pin shackle (G-4163) with a WLL of 55 tons in the upper centre hole of the HI ML 050 multilug.
  - When using a double shackle, fit two Green Pin shackles (G-4163) with a WLL of 35 tons in the desired upper holes of the HI ML 050 multilug.
4. Use a sling to attach the HI ML 050 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 25 tons in the desired bottom holes of the HI ML 050 multilug.
6. Get the HI ML 050 multilug checked before use by a suitably competent member of staff or an external specialist.



### Coupled assembly of the HI ML 050 multilug

1. Clean the HI ML 050 multilugs and the coupling pieces.
2. Position the HI ML 050 multilugs and coupling pieces on a flat and clean surface.
3. Place the HI ML 050 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 35 tons centred at the top and at least 2 metres apart.
9. Use a sling to attach the HI ML 050 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 25 tons in the desired bottom holes of the HI ML 050 multilug.
11. Get the HI ML 050 multilug checked before use by a suitably competent member of staff or an external specialist.

| Table 2 – Working load* |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
|-------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 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 | 50   | 45   | 41   | 38   | 35   | 32   | 30    | 28    | 26    | 25    | 24    | 23    | 22    |

\* With a single HI ML 050 multilug in any configuration the maximum working load is 50t.

Figure 3 – Fitting the coupling plate and coupling pin

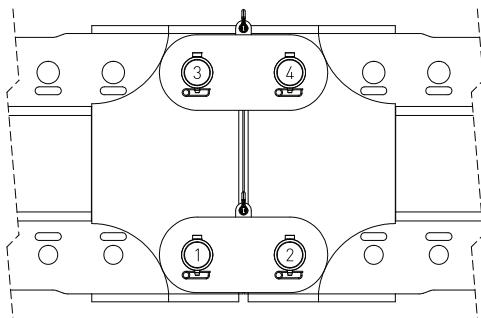


Figure 4 – Fitting the locking pin and circlip

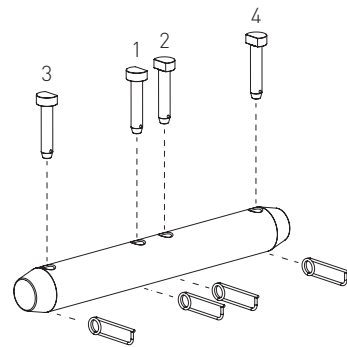
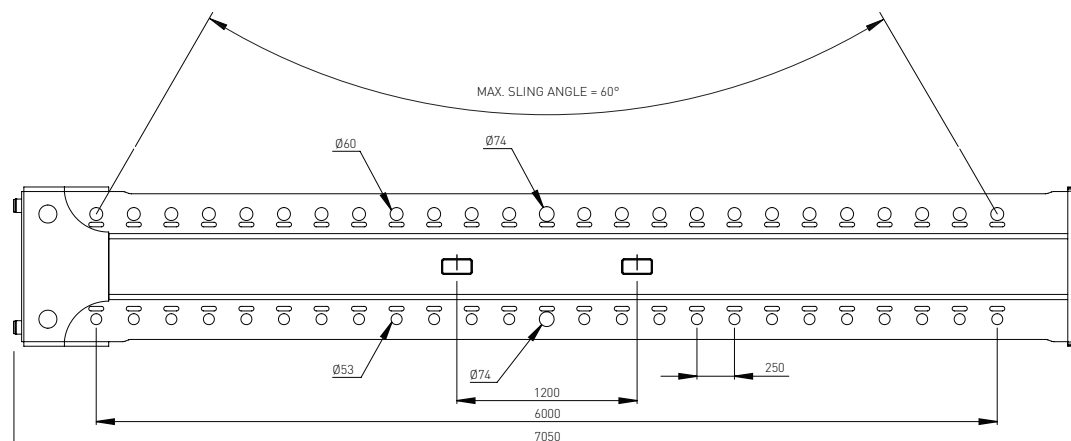
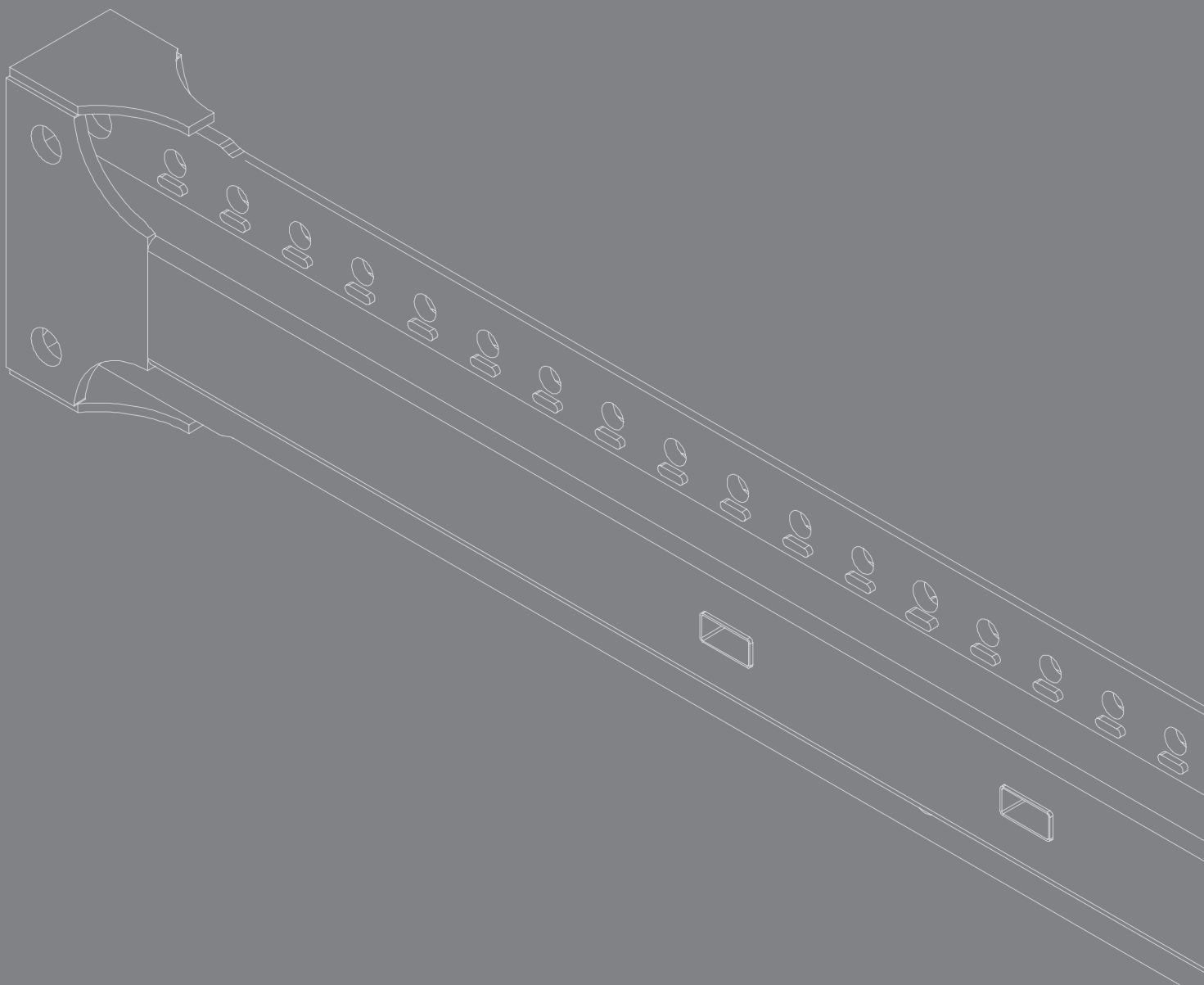


Figure 5 – Overview of the HI ML 050





V01 - April 2023



**KSC International BV**

Moezelweg 128

3198 LS Europoort Rotterdam

Tel. 0031 88 25 00 999

[info@ksc-international.com](mailto:info@ksc-international.com)

[www.ksc-international.com](http://www.ksc-international.com)