

User and maintenance manual

H-bar adjustable aluminium spreader beams

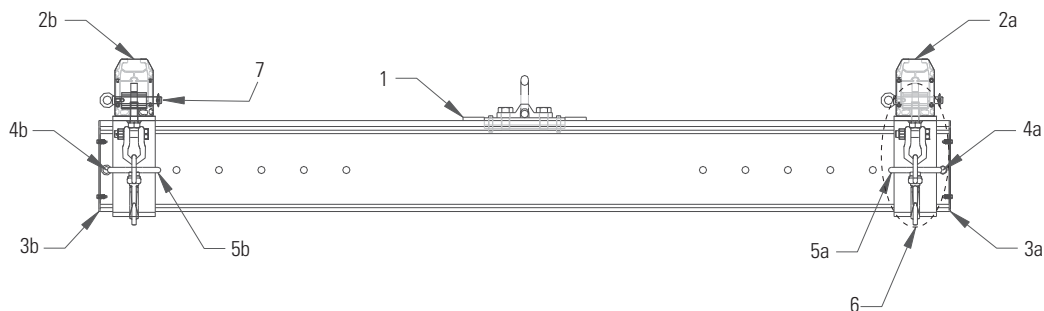


N° de série :

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1. Instruction



The lifting beam is delivered in 3 parts:

- The main beam **1**
- The two secondary beams **2a** and **2b**

The main beam is placed on the ground in accordance with the following steps:

1. Dismantle the threaded rod M12 **4a** and **4b** located at the end of the main beam **1**.
2. Lift the first secondary arm **2a** By means of a suitable lifting means and engage it on the main arm by its end, in the configuration indicated in the diagram.
3. Block the secondary arm, in required position by means of the **5a** spindle. It's compulsory to lock this rod with dedicated pin clip..
4. Insert and firmly tighten M12 **4a** dans le trou Ø13 à l'extrémité du bras principale.
6. Proceed in the same way with the second secondary beam **2a** by presenting it on the other end of the main beam. Insert and firmly tighten the M12 **4b** servant de butée.
7. Place the secondary beam **6** in required position, identical positions must be in opposite sides. Block the suspensions with axis **7**. It's compulsory to lock these axis with dedicated pin clips..

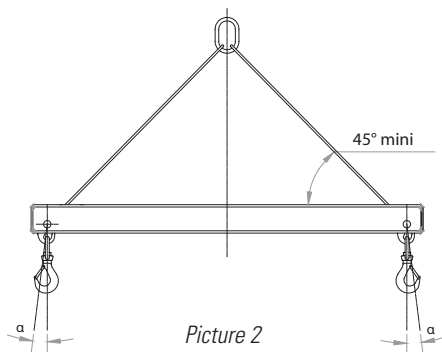
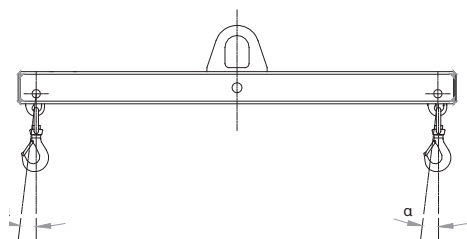
2. Specification and identification

H-bar Adjustable spreader beams
SWL : _____ Kg
(considered balanced)

Weight: _____ Kg
Serial number: _____

Hoisting speed: **16 m/mn**
Angle α maxi : **5° 50'** (see picture 1)

According to norm NF EN 13155+A2



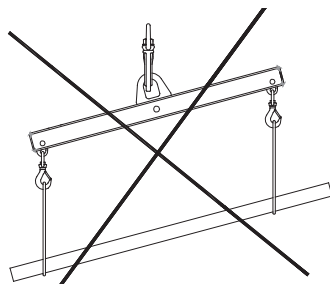
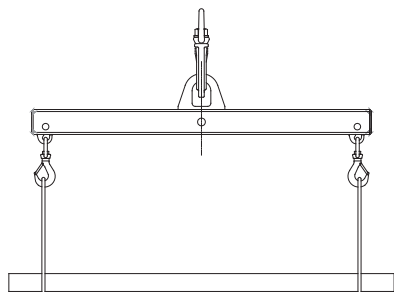
3. Use

The spreader should be used exclusively in the position shown in pictures 1 and 2, meaning the central lifting eye (or sling 2,3 or 4 wires, picture 2) facing up to the hook low.

The load must always be balanced and the spreader must remain in a horizontal position (Pictures 3 and 4).

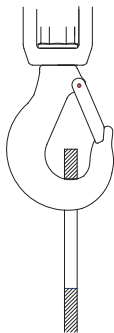
$$\text{Load at each hook is at most equal to} = \frac{\text{Total load}}{\text{Number of hooks}}$$

In the case of an adjustable spreader beam, the same adjusting distance will be made on either side of the axis or the end of the spreader.

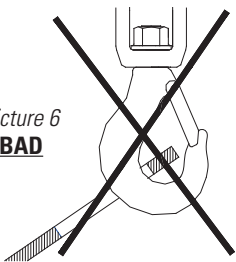


The spreader should be hung on a hook with a safety latch effective. The eye gripping engaged fully in the hook (see picture 5 and 6).

Picture 5
GOOD



Picture 6
BAD



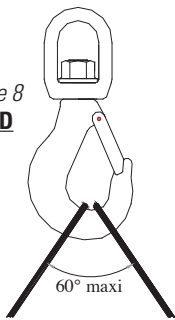
In the case where the hook for grasping the spreader would prove too large compared to the eye gripping, it is possible to use a suitable intermediate attachment. In this case, check its ability to receive the load plus the weight of the spreader..

IT IS FORBIDDEN TO EXCEED THE MAXIMUM WORKING LOAD indicated on the spreader beam.

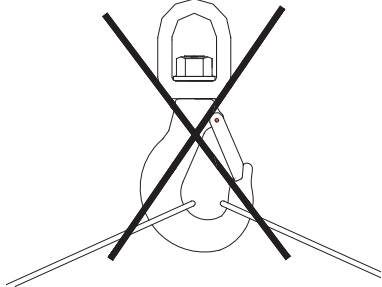
Consider the weight of the spreader (shown on the nameplate) in the calculation of the total load to be lifted, in order not to exceed the capacity of the hoist for handling the set.

Using slings: the sling at the bottom must be realized in the same conditions as shown in picture 5.

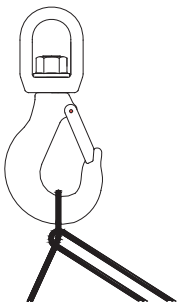
Picture 8
GOOD



Picture 7
BAD



Picture 9
GOOD



IT IS FORBIDDEN TO USE SHARP OBJECTS or likely to damage the hooks.

DO NOT STAND UNDER THE LOADS.

IT IS FORBIDDEN TO CARRY PEOPLE with the spreader beam and IT IS FORBIDDEN TO USE IT FOR ANY OTHER PURPOSE THAN THAT FOR WHICH IT WAS MADE.

4. Maintenance

Before each use:

- Check the correct display of the SWL.
- Check the operation of the safety latches.
- Check the appearance of hooks.
- Ensure full spreader assembly, check if any pins or no retaining nut axis is missing.

Periodically ((at least 2 times a year or more depending on usage):

- Check the structure of the spreader and the handle. No cracks shall appear.
If applicable: **DECLARE IMMEDIATELY THE SPREADER OUT OF SERVICE.**
- Carefully check the condition of hooks. No marks or injury should occur. If necessary, replace hooks same characteristics (preferably ask the manufacturer).
- Check the condition of the axis. No marks or deformation should appear. If necessary, replace them with new axis (preferably ask the manufacturer).
- For your safety, have your spreader checked at least once a year by an approved body.
- Lightly oil the bearings of rotating hooks.

Dismantling axes of hook:

Remove spring pins or locknuts with a pin remover or an appropriate key, then remove the pin and hook.

Reassembly:

Proceed in the reverse order taking care to **REPLACE SYSTEMATICALLY** spring pins, lock nuts and washers each reassembly.

Nuts minimum 8.8 grade.

The spring pins are « *MECANINDUS* » or equivalent.

- **IT IS STRICTLY FORBIDDEN** to make any changes whatsoever to the spreader without notice the manufacturer or an approved body.

5. Mandatory checks

- Carry out a check when the spreader is put into service by a qualified body in accordance with the order of 1 March 2004.
- Carry out periodic checks in accordance with the order of 1 March 2004.
- A thorough inspection must be carried out to detect any defects caused by impact, cracks, deformation or corrosion. This inspection must be carried out at least twice a year.

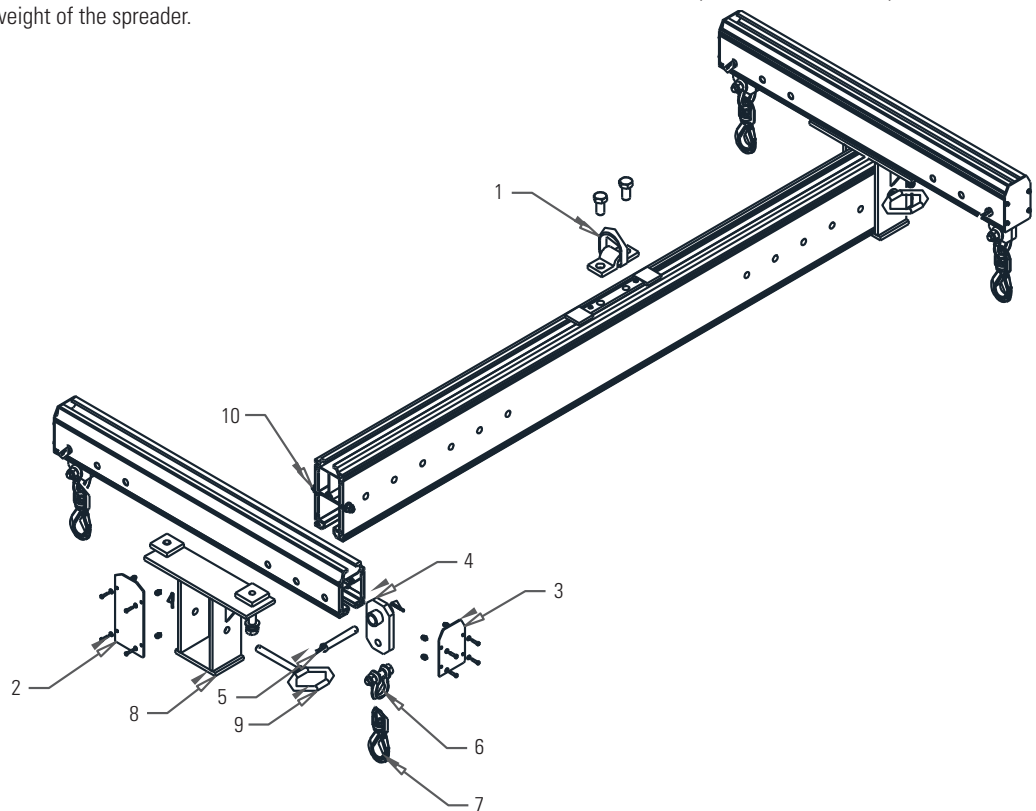
Before each use :

- Carry out a visual inspection and check that the equipment is working properly.
- Check the correct display of the maximum load.
- Check the appearance and functioning of the safety latches.
- Ensure that all the components of the spreader bar are present.
- Any defective part must be removed from service immediately.
- Lightly oil the supports of the rotary hooks.

6. Spare parts

The spreader should be hung on a hook with a safety latch effective. The eye gripping engaged fully in the hook (see picture 5 and 6).

In the case where the hook for grasping the spreader would prove too large compared to the eye gripping, it is possible to use a suitable intermediate attachment. In this case, check its ability to receive the load plus the weight of the spreader.

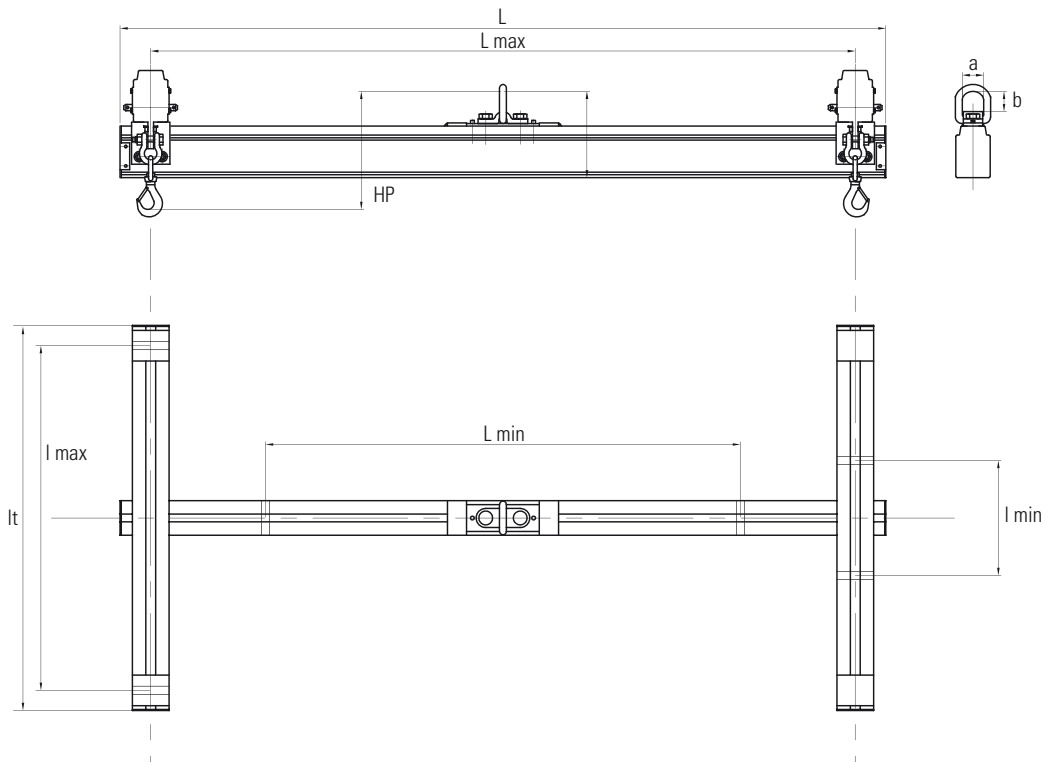


N°	Désignation
1	Central ring to be boled
2	Main beam closing sheet + screws
3	Secondary beam closing sheet + screws
4	suspension
5	suspension axis
6	Manille
7	Hook
8	Adjustable suppoty + screws
9	Spindle
10	Threated rods M12

7. Specifications

IT IS FORBIDDEN TO EXCEED THE MAXIMUM USEFUL LOAD indicated on the lifter.

Take into account the self-weight of the spreader (indicated on the rating plate) in the calculation of the total load to be lifted, so as not to exceed the capacity of the lifting device intended to handle the assembly.



L max	Longueur maxi entre crochets	Max. length between hooks
L min	Longueur mini entre crochets	Min. length between hooks
I max	Largeur maxi entre crochets	Max. width between hook
I min	Largeur mini entre crochets	Min. width between hook
LT	Longueur Totale	Total length
It	Largeur Totale	Total width
HP	Hauteur perdue	Headroom

CMU	Longueur totale (LT)	Largeur Totale (lt)	Longueur maxi entre crochets (L max)	Longueur mini entre crochets (L min)	Largeur maxi entre crochets (l max)	Largeur mini entre crochets (l min)	Hauteur perdue (HP)				Poids
Max. capacity	Total length (LT)	Total width (lt)	Max. length between hooks (L max)	Min. length between hooks (L min)	Max. width between hook (l max)	Min. width between hook (l min)	Headroom (HP)	a	b	c	Weight
kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
125	1 000	1 000	840	440	900	500	310	56	53	226	51
	2 000	1 000	1 840	940	900	500	310	56	53	226	58
	3 000	1 000	2 840	1 440	900	500	310	56	53	226	64
	3 000	2 000	2 840	1 440	1 900	900	310	56	53	226	77
	4 000	1 000	3 840	1 940	900	500	310	56	53	226	71
	4 000	2 000	3 840	1 940	1 900	900	310	56	53	226	84
250	1 000	1 000	840	440	900	500	310	56	53	226	51
	2 000	1 000	1 840	940	900	500	310	56	53	226	58
	3 000	1 000	2 840	1 440	900	500	310	56	53	226	64
	3 000	2 000	2 840	1 440	1 900	900	310	56	53	226	77
	4 000	1 000	3 840	1 940	900	500	310	56	53	226	71
	4 000	2 000	3 840	1 940	1 900	900	310	56	53	226	84
500	1 000	1 000	840	440	900	500	310	56	53	226	51
	2 000	1 000	1 840	940	900	500	310	56	53	226	58
	3 000	1 000	2 840	1 440	900	500	310	56	53	276	71
	3 000	2 000	3 840	1 940	1 900	900	310	56	53	276	84
	4 000	1 000	3 840	1 940	900	500	310	56	53	276	79
	4 000	2 000	3 840	1 940	1 900	900	310	56	53	276	92
750	1 000	1 000	840	440	900	500	310	56	53	226	51
	2 000	1 000	1 840	940	900	500	310	56	53	276	62
	3 000	1 000	2 840	1 440	900	500	310	56	53	276	71
	3 000	2 000	3 840	1 940	1 900	900	310	56	53	276	84
	4 000	1 000	3 840	1 940	900	500	310	56	53	306	87
	4 000	2 000	3 840	1 940	1 900	900	310	56	53	306	100
1000	1 000	1 000	840	440	900	500	310	56	53	306	55
	2 000	1 000	1 840	940	900	500	310	56	53	306	66
	3 000	1 000	2 840	1 440	900	500	310	56	53	306	77
	3 000	2 000	2 840	1 440	1 900	900	310	56	53	306	90
	4 000	1 000	3 840	1 940	900	500	310	56	53	341	103
	4 000	2 000	3 840	1 940	1 900	900	310	56	53	341	116
1600	1 000	1 000	840	440	900	500	310	56	53	306	55
	2 000	1 000	1 840	940	900	500	310	56	53	306	66
	3 000	1 000	2 840	1 440	900	500	310	56	53	341	88
	3 000	2 000	2 840	1 440	1 900	900	310	56	53	341	101
2000	1 000	1 000	840	440	900	500	310	56	53	306	64
	2 000	1 000	1 840	940	900	500	310	56	53	341	82

