User and maintenance manual

Aluminum lifting beams

Serial number:

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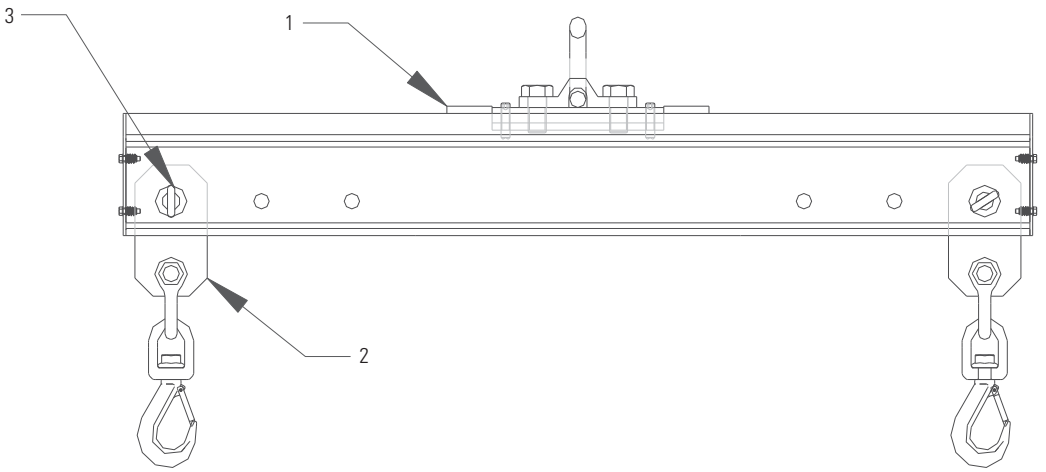
1. Assembly instructions

About aluminium lifting beams:



1. Position the lines ❷ in the desired position, the same adjustment distance will be made on either side of the axis or the end of the spreader.

2. Blocking the lines with the axes ❸. It is obligatory to lock these axes with the pins provided for this purpose.

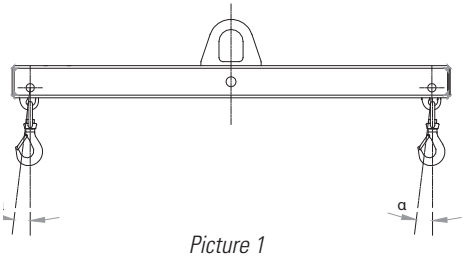
2. Specification and identification

Spreader beam type:_____
SWL:_____Kg
(considered balanced)

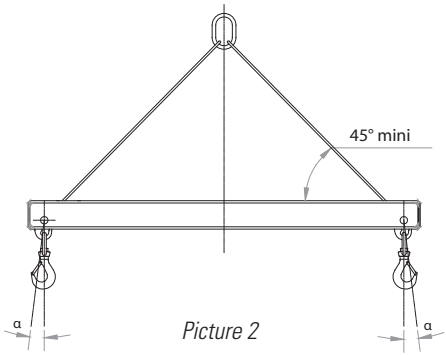
Weight:_____ Kg
Serial numbe : _____

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

According to norm EN 13155+A2



Picture 1



Picture 2

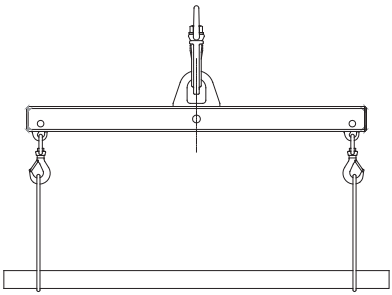
3. Use

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.

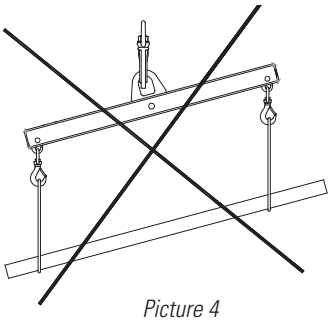
The load must always be balanced and the spreader must remain in a horizontal position (Pictures 3 and 4).

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.



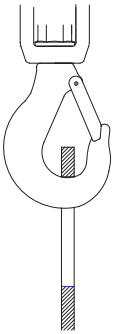
Picture 3
GOOD



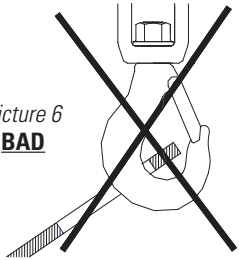
Picture 4
BAD

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



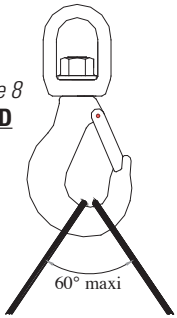
In the case where the hook for grasping the spreader would prove too large compared to the eye gripping, it is possible to use a suitable intermediate attachment. In this case, check its ability to receive the load plus the weight of the spreader..

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

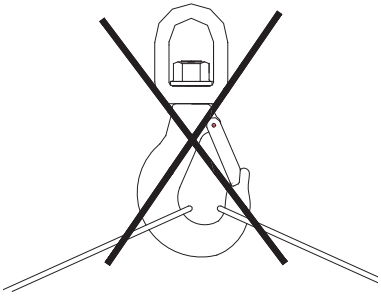
Consider the weight of the spreader (shown on the nameplate) in the calculation of the total load to be lifted, in order not to exceed the capacity of the hoist for handling the set.

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

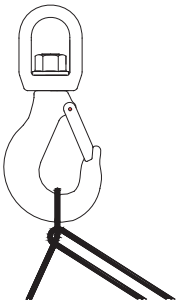
Picture 8
GOOD



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.

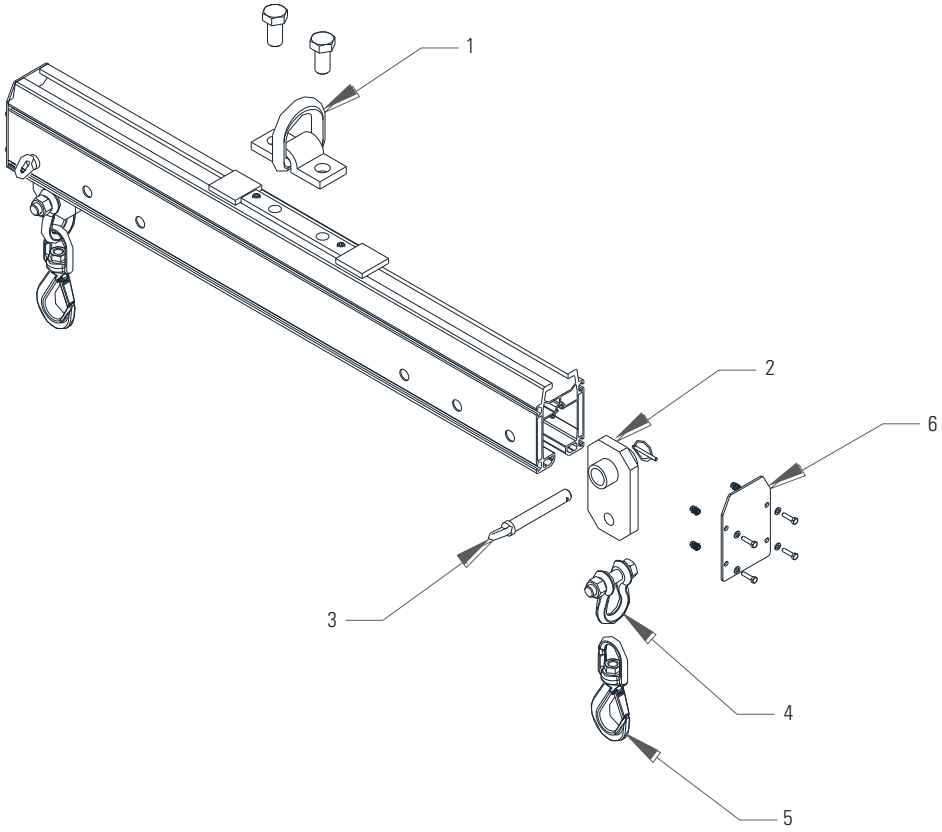
5. Mandatory checks

- 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 :

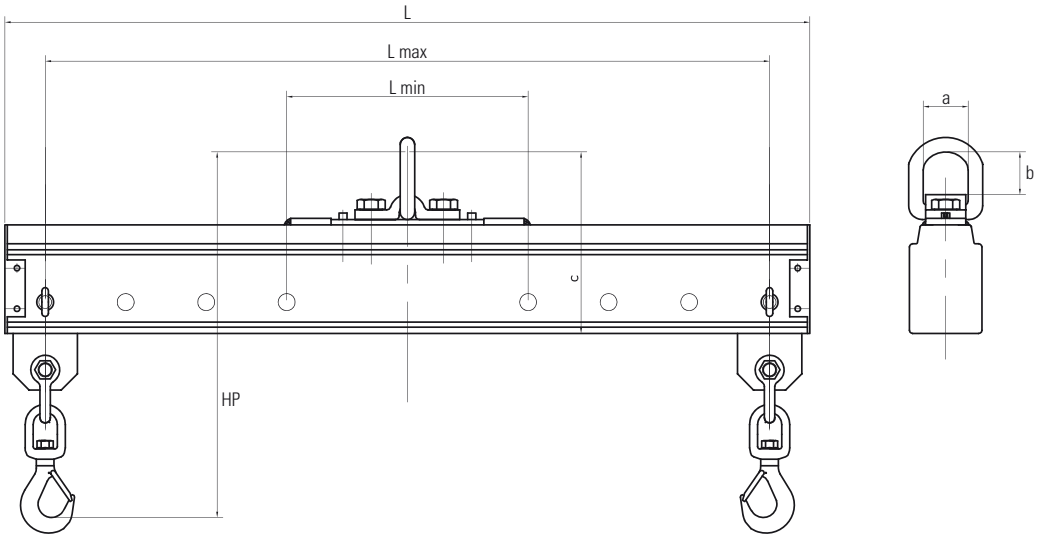
- Carry out a visual inspection and check that the equipment is working properly.
- Check the correct display of the maximum load.
- Check the appearance and functioning of the safety latches.
- Ensure that all the components of the spreader bar are present.
- Any defective part must be removed from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

6. Spare parts



N°	Désignation
1	Screw-on central ring
2	Suspension
3	Suspension line
4	Manila
5	Hook
6	Closing plate + bolts

7. Specifications



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

CMU Max. capacity	Longueur Totale (LT) Total length (LT)	Longueur maxi entre crochets (L max) Length maxi between hooks (L max)	Longueur mini entre crochets (L min) Length mini between hooks (L min)	Hauteur perdue (HP) Headroom (HP)	a	b	c	Poids Weight
kg	mm	mm	mm	mm	mm	mm	mm	kg
125	1 000	900	300	454	56	53	226	16
	2 000	1 900	900	454	56	53	226	22
	3 000	2 900	900	454	56	53	226	29
	4 000	3 900	1 900	454	56	53	226	35
	5 000	4 900	2 900	454	56	53	226	42
	6 000	5 900	3 900	454	56	53	226	48
250	1 000	900	300	454	56	53	226	16
	2 000	1 900	900	454	56	53	226	22
	3 000	2 900	900	454	56	53	226	29
	4 000	3 900	1 900	454	56	53	226	35
	5 000	4 900	2 900	454	56	53	226	42
	6 000	5 900	3 900	504	56	53	276	61
500	1 000	900	300	454	56	53	226	16
	2 000	1 900	900	454	56	53	226	22
	3 000	2 900	900	504	56	53	276	36
	4 000	3 900	1 900	504	56	53	276	44
	5 000	4 900	2 900	504	56	53	276	53
	6 000	5 900	3 900	535	56	53	306	74
750	1 000	900	300	454	56	53	226	16
	2 000	1 900	900	504	56	53	276	27
	3 000	2 900	900	504	56	53	276	36
	4 000	3 900	1 900	535	56	53	306	52
	5 000	4 900	2 900	569	56	53	341	83
	6 000	5 900	3 900	569	56	53	341	97
1 000	1 000	900	300	535	56	53	306	21
	2 000	1 900	900	535	56	53	306	31
	3 000	2 900	900	535	56	53	306	42
	4 000	3 900	1 900	569	56	53	341	68
	5 000	4 900	2 900	569	56	53	341	83
1 600	1 000	900	300	535	56	53	306	21
	2 000	1 900	900	535	56	53	306	31
	3 000	2 900	900	569	56	53	341	54
2 000	1 000	900	300	535	56	53	306	21
	2 000	1 900	900	569	56	53	341	39

2000 KG