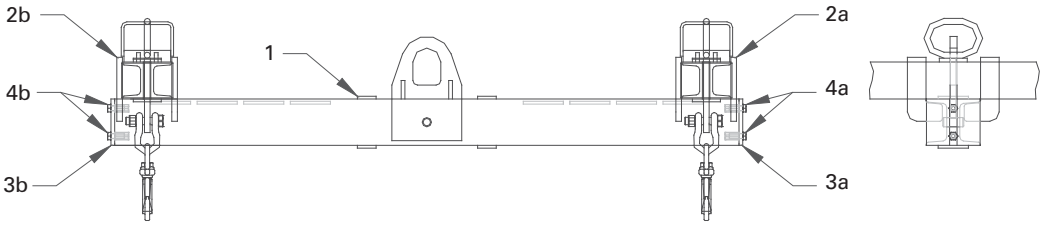
User and maintenance manual

H-bar adjustable spreader beams

Serial number:

Table of contents

1. Instructions



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 closure plates 3a and 3b located at the ends of the main beam 1 By removing the 4 M10 bolts 4a and 4b.

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. Replace the closing plate 3a and insert the 2 M10 fixing bolts 4a.
Bloquer les écrous.

4. Proceed in the same way with the second secondary beam 2b by presenting it on the other end of the main beam. Replace the closing plate 3b, insert and firmly tighten the 2 M10 bolts 4b.

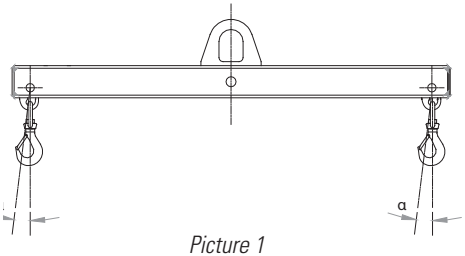
2. Specification and identification

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

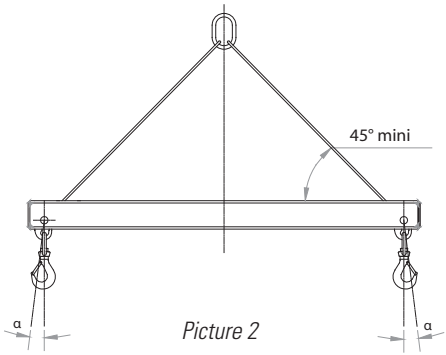
Weight: _____ Kg
Serial number: _____

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

According to norm NF EN 13155+A2



Picture 1



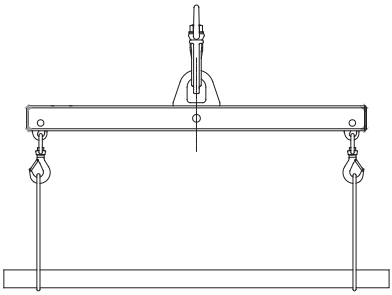
Picture 2

3. Use

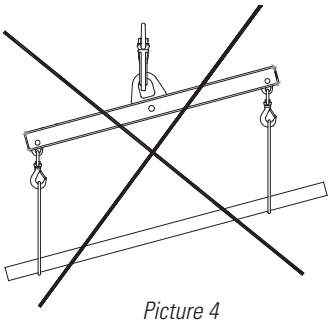
The spreader should be used exclusively in the position shown in pictures 1 and 2, meaning the central lifting eye (or sling 2,3 or 4 wires, picture 2) facing up to the hook low.
The load must always be balanced and the spreader must remain in a horizontal position (Pictures 3 and 4).

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

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.



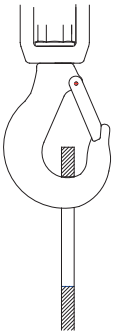
Picture 3
GOOD



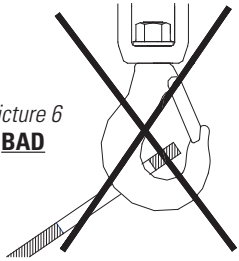
Picture 4
BAD

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



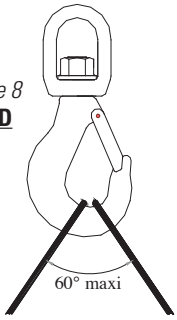
In the case where the hook for grasping the spreader would prove too large compared to the eye gripping, it is possible to use a suitable intermediate attachment. In this case, check its ability to receive the load plus the weight of the spreader..

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

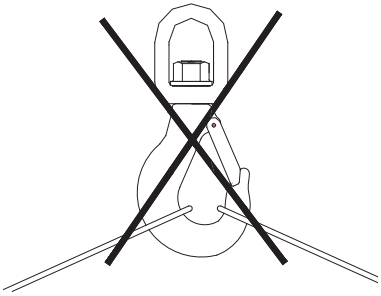
Consider the weight of the spreader (shown on the nameplate) in the calculation of the total load to be lifted, in order not to exceed the capacity of the hoist for handling the set.

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

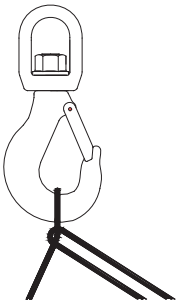
Picture 8
GOOD



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.

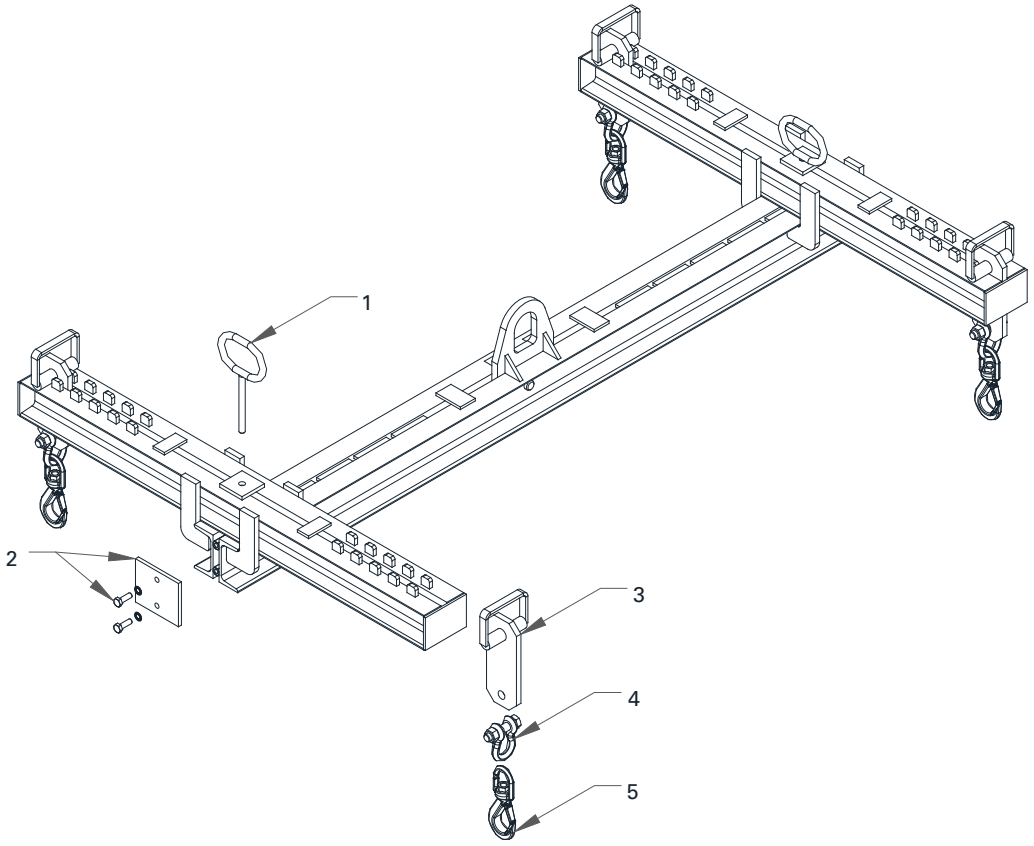
5. Mandatory checks

- 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 :

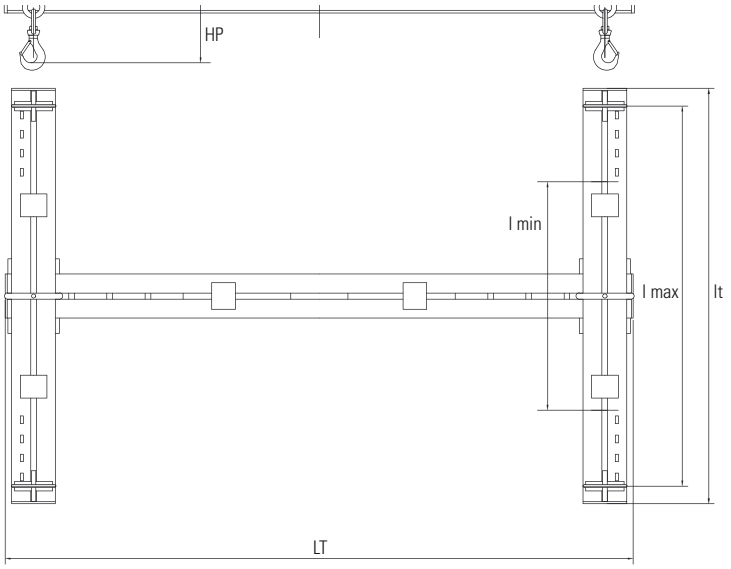
- Carry out a visual inspection and check that the equipment is working properly.
- Check the correct display of the maximum load.
- Check the appearance and functioning of the safety latches.
- Ensure that all the components of the spreader bar are present.
- Any defective part must be removed from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

6. Spare parts



N°	Désignation
1	Adjustment spindle
2	Sheet closing + screws
3	Suspension
4	Manille
5	Hook

7. Specifications



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

CMU Max. capacity	Longueur Maxi Entre Crochets (L max) Max. length between hooks (L max)	Longueur Mini Entre Crochets (L min) Min. length between hooks (L min)	Largeur Maxi Entre Crochets (l max) Max. distance between hook (l max)	Largeur Mini Entre Crochets (l min) Min. distance between hook (l min)	Longueur Totale (LT) Total length (LT)	Largeur Totale (lt) Overall dimension (lt)	Hauteur perdue (HP) Headroom (HP)	a	b	Poids Weight
kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg
1 000	1 000	500	1 000	500	1 200	1 100	333	60	80	89
	2 000	1 000	1 000	500	2 200	1 100	333	60	80	111
	3 000	1 000	1 000	500	3 200	1 100	333	60	80	133
	3 000	1 000	2 000	1 000	3 200	2 100	333	60	80	171
	4 000	2 000	1 000	500	4 200	1 100	333	60	80	178
	4 000	2 000	2 000	1 000	4 200	2 100	333	60	80	214
2 000	1 000	500	1 000	500	1 200	1 100	353	80	120	91
	2 000	1 000	1 000	500	2 200	1 100	353	80	120	126
	3 000	1 000	1 000	500	3 200	1 100	353	80	120	171
	3 000	1 000	2 000	1 000	3 200	2 100	363	80	120	226
	4 000	2 000	1 000	500	4 200	1 100	353	80	120	229
	4 000	2 000	2 000	1 000	4 200	2 100	363	80	120	283
3 000	1 000	500	1 000	500	1 200	1 100	413	100	180	94
	2 000	1 000	1 000	500	2 200	1 100	413	100	180	143
	3 000	1 000	1 000	500	3 200	1 100	413	100	180	195
	3 000	1 000	2 000	1 000	3 200	2 100	423	100	180	284
	4 000	2 000	1 000	500	4 200	1 100	413	100	180	260
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	3 000	1 000	1 000	500	3 200	1 100	452	100	180	238
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	4 000	2 000	2 000	1 000	4 200	2 100	447	100	180	452
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	2 000	1 000	1 000	500	2 200	1 100	467	100	180	208
	3 000	1 000	1 000	500	3 200	1 100	467	100	180	276
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6 000	1 000	500	1 000	500	1 200	1 100	467	100	180	177
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	3 000	1 000	2 000	1 000	3 200	2 100	447	100	180	427
	4 000	2 000	1 000	500	4 200	1 100	467	100	180	412
	4 000	2 000	2 000	1 000	4 200	2 100	447	100	180	520
8 000	1 000	500	1 000	500	1 250	1 100	510	100	180	209
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	3 000	1 000	1 000	500	3 250	1 100	510	100	180	380
	3 000	1 000	2 000	1 000	3 250	2 100	510	100	180	506
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	4 000	2 000	2 000	1 000	4 250	2 100	530	100	180	692
10 000	1 000	500	1 000	500	1 250	1 100	558	100	180	223
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	3 000	1 000	1 000	500	3 250	1 100	558	100	180	426
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	4 000	2 000	1 000	500	4 250	1 100	578	100	180	582
	4 000	2 000	2 000	1 000	4 250	2 100	578	100	180	707


10000 KG