

# GRIFFON XL



## TECHNICAL MANUAL Ref. GXL08.ML

|             |         |
|-------------|---------|
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# CONTENTS

|                                                                   |                |
|-------------------------------------------------------------------|----------------|
| <b>FOREWORD.....</b>                                              | <b>Page 3</b>  |
| <b>INTRODUCTION.....</b>                                          | <b>Page 4</b>  |
| <b>TECHNICAL DATAS .....</b>                                      | <b>Page 5</b>  |
| <b>DIMENSIONS AND INSTALLATION .....</b>                          | <b>Page 6</b>  |
| <b>SELECTION OF THE LOCATION &amp; CONDITIONS OF INSTALLATION</b> | <b>Page 7</b>  |
| <b>DESCRIPTION OF THE BENCH.....</b>                              | <b>Page 8</b>  |
| <b>STARTING .....</b>                                             | <b>Page 9</b>  |
| <b>CONTROL AND OPERATION .....</b>                                | <b>Page 18</b> |
| - Main lifting unit .....                                         | Page 18        |
| - Inner lifting unit .....                                        | Page 19        |
| <b>STICKERS .....</b>                                             | <b>Page 20</b> |
| <b>IDENTIFICATION PLATES.....</b>                                 | <b>Page 22</b> |
| <b>SAFETY ELEMENTS.....</b>                                       | <b>Page 23</b> |
| <b>DIVISION OF LOADS .....</b>                                    | <b>Page 24</b> |
| <b>UTILIZATION.....</b>                                           | <b>Page 25</b> |
| - Installation of a vehicle on the base.....                      | Page 25        |
| - Inner lifting unit.....                                         | Page 26        |
| <b>OPTIONS .....</b>                                              | <b>Page 28</b> |
| - « MZ System ».....                                              | Page 28        |
| - « METRO 2000 » measuring unit.....                              | Page 31        |
| - « NAJA » electronic measuring device.....                       | Page 32        |
| <b>ACCESSORIES.....</b>                                           | <b>Page 33</b> |
| <b>MAINTENANCE.....</b>                                           | <b>Page 33</b> |
| <b>DYSFUNCTIONS.....</b>                                          | <b>Page 35</b> |

## ENCLOSURES

## Foreword :

This instruction leaflet is designed to answer most of the questions about **technical matters, utilization and safety instructions** concerning your lifting bench **GRIFFON XL**.

Consequently, we recommend each user to **read this leaflet carefully** and to keep it nearby the work bay, for the best and safest possible utilization.

In fact, **CELETTE S.A cannot be held responsible** in following cases :

- **utilization** of the lifting bench **GRIFFON XL** for any other purpose than the one it is designed for .
- **intervention** or **modification** carried out without the manufacturer's previous consent.
- utilization of **non homologated or non suitable accessories** with the bench.

## Introduction :

We duly thank you for granting us your confidence.

We are convinced that your **GRIFFON XL lifting bench** will meet your needs, more especially thanks to its lifting capacity:

- **4200 KG** load on the main lifting unit, until **63cm** high for easier and more comfortable work conditions.

and to its total autonomy for the installation of rolling or non rolling vehicles :

- **2100 KG** load, which can be placed in position again on the base thanks to the two inner lifting units.

**GRIFFON XL** will make the repair of light or important impacts easier, thanks to the MZ System, **but** will also enable the checking and rebuilding by means of the various adaptable CELETTE options and accessories.

The important stroke (**640 mm**) of its inner lifting units and its concept of utilization will enable the straightening of most of the vehicles, without complementary accessories.



**THE LIFTING BENCH GRIFFON XL HAS TO BE FIXED TO THE GROUND BEFORE ANY INSTALLATION OF A VEHICLE.**

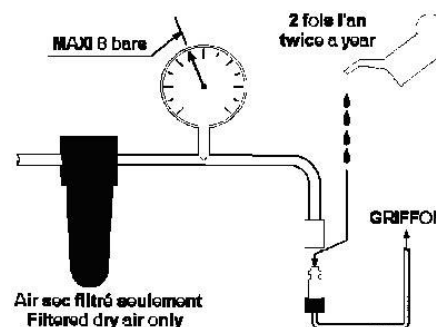
This equipment is composed of :

- a COMPLETE BASE **9186.311/312** including one base and two inner lifting units.
- a MAIN LIFTING UNIT **9186.601/603/606** including one « X » and an hydro air power unit.
- a COMPLETE RUNWAY DECKING PLATE SYSTEM including a runway decking plate **GR08.0028**.
- one SET OF ANCHORING CLAMPS **9123.023**.
- STANDARD OR SPECIFIC OPTIONS and ACCESSORIES.

## Technical datas :

### • Hydraulic power unit

- Outlet pressure : 280 bars
- Compressed air supply, cleaned **not oiled** 6/8 bars
- Electric motor, voltage & frequency according to the country of utilization :  
110V / 230V / 400V – 50Hz / 60Hz
- Oil tank: 7 liters
- Oil type : MOBIL DTE 13



### • Pneumatic unlocking of the safety elements :

- Compressed air supply, cleaned not oiled 6/8 bars.



**COMPRESSED AIR HAS TO BE CLEANED**



**We strongly recommend to equip the power unit with a purifier upstream**

### • Locking of the safety elements :

- Automatic by absence of air

### • Weight of the equipment :

| 9186.31    | 9186.01   | 9186.02 | 9123.023 | GR08.0028 | TOTAL   |
|------------|-----------|---------|----------|-----------|---------|
| 887+280 kg | 150+55 kg | 280 kg  | 190 kg   | 525 kg    | 2367 kg |

| 955.900 | MZ450.000 | Bracket set | TOTAL  | TOTAL MAX |
|---------|-----------|-------------|--------|-----------|
| 214 kg  | 115 kg    | 242 kg      | 785 kg | 3152 kg   |

- Maximal load on the bench : - 4200 daN

- Noise level : - 65 dB (A)

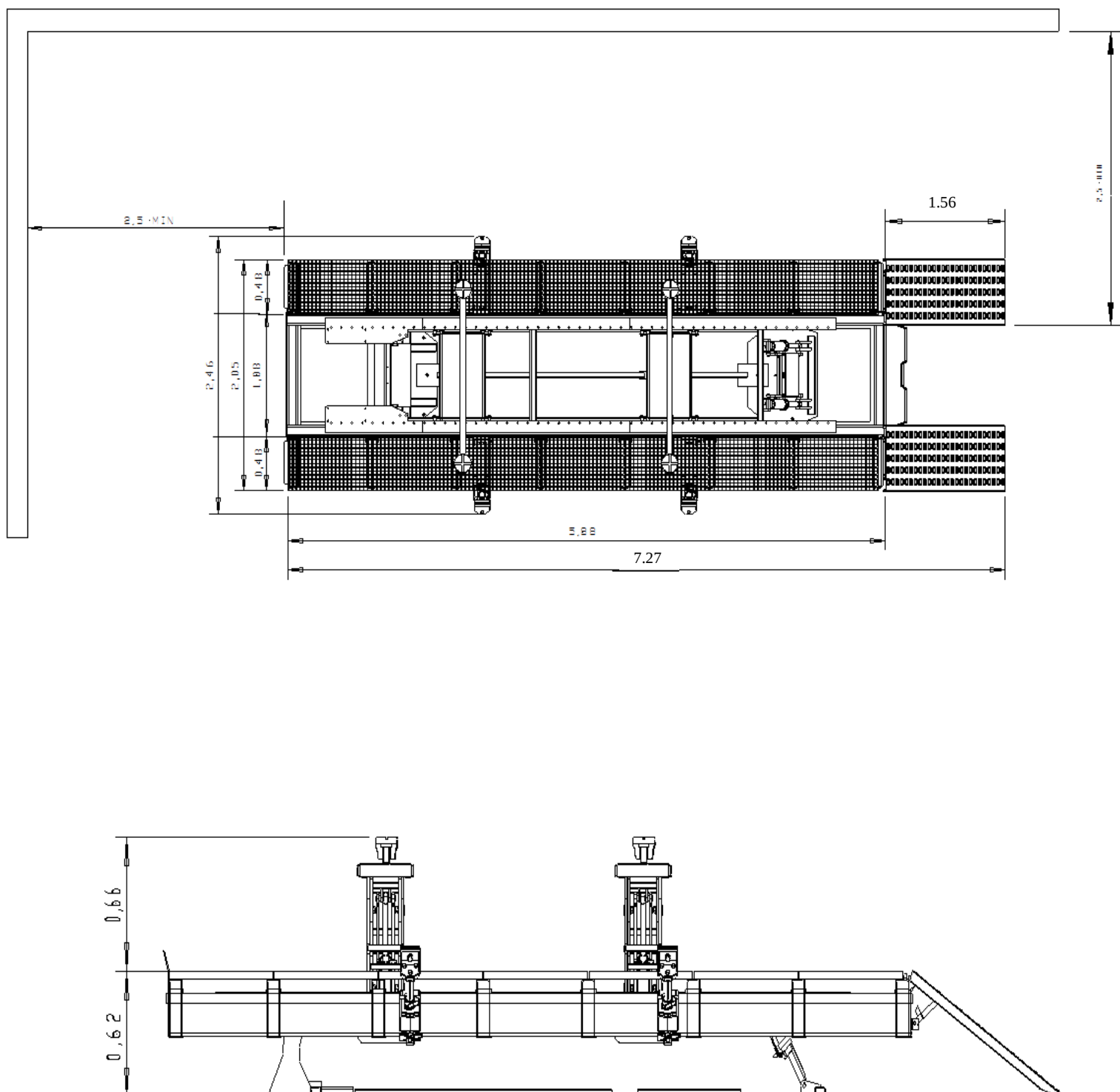
### • Lifting time :

|                      |                        |     |
|----------------------|------------------------|-----|
| Main lifting unit :  | unloaded :             | 25" |
|                      | with a 1500 daN load : | 27" |
| Inner lifting unit : | unloaded :             | 20" |
|                      | with a 1500 daN load : | 21" |

### • Lowering time :

|                      |                        |     |
|----------------------|------------------------|-----|
| Main lifting unit :  | unloaded :             | 45" |
|                      | with a 1500 daN load : | 45" |
| Inner lifting unit : | unloaded :             | 30" |
|                      | with a 1500 daN load : | 30" |

### Dimensions and installation :

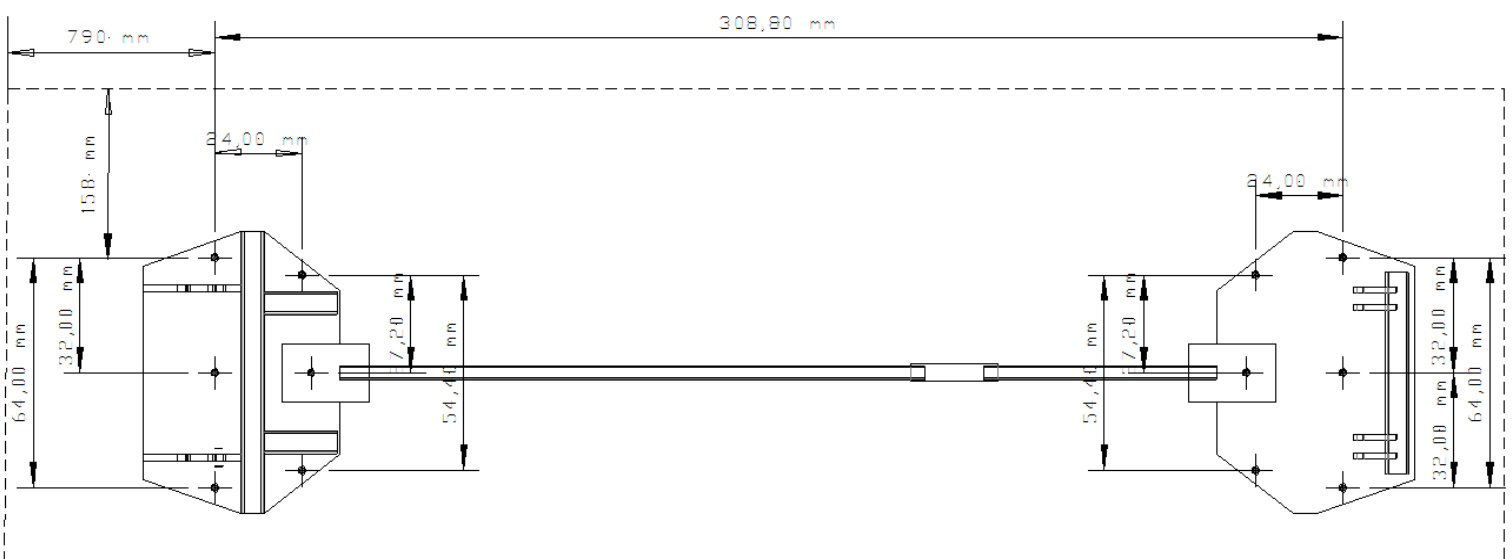


|                                                                   |
|-------------------------------------------------------------------|
| <b>Selection of the location and conditions of installation :</b> |
|-------------------------------------------------------------------|



- The **perfectly flat**, ground should be able to withstand a total load of 5600 daN and have a minimal compressive strength of 450 kg/cm<sup>2</sup> minimum **under the whole surface** of the bench.
- CELETTE SA recommends a minimal thickness of **100 mm** for the pavement.
- The bench will be **fixed on the « minimal plane area » through the 12 expansion dowels (SPIT MEGA E12-18/45)** length 140 mm supplied with the equipment.

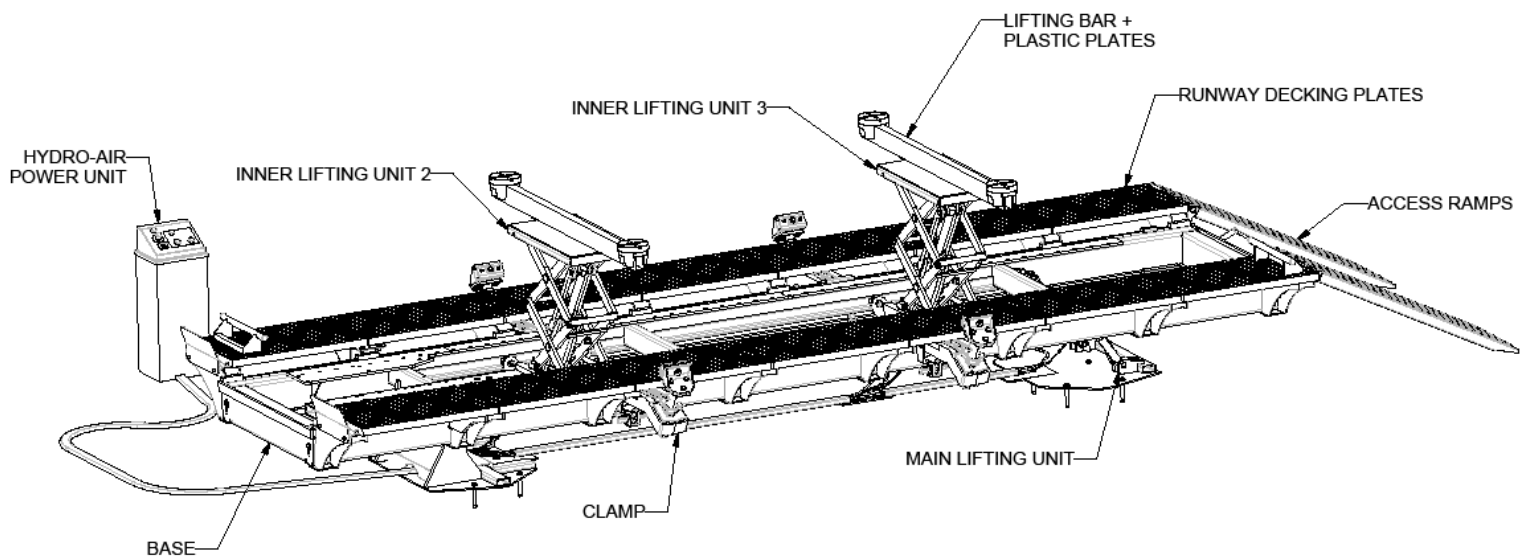
## Drilling Plan



- No obstacle (Extraction arm, energy box,...) should be placed lower than 3,70 m above the work area

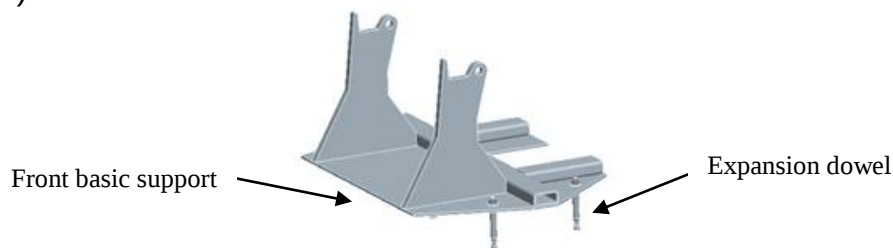
- We advise to foresee a free area (Refer to the drawings on pages 6 & 7) around the base of the lifting unit to use the pulling unit SEVENNE 9128.013.  
This represents a work bay (not including the storage of accessories and tools) of 6m de wide x 9 m deep.  
**Caution :** The access ramps are not included within the 9m.  
**Caution :** we also recommend to foresee a free area for the access of the vehicle to the GRIFFON XL.
- Following equipment is to be foreseen nearby the device :
  - A compressed air supply - cleaned, **not oiled**, 6 to 8 bars (installation of a complementary purifier).
  - A power supply – protected by a 30mA differential.  
Cable section 2,5<sup>2</sup> - 16A – 3P or 1P – N + T (according to the country ).
- The connection to an IT power supply is not allowed.
- The control keyboard should not be exposed to fluid projection. Do not use a water spray to clean the control keyboard. Place it in an easily accessible area. Use the option 9171.01.7007 to protect the sheath on the ground and avoid any damage..

### Description of the bench :

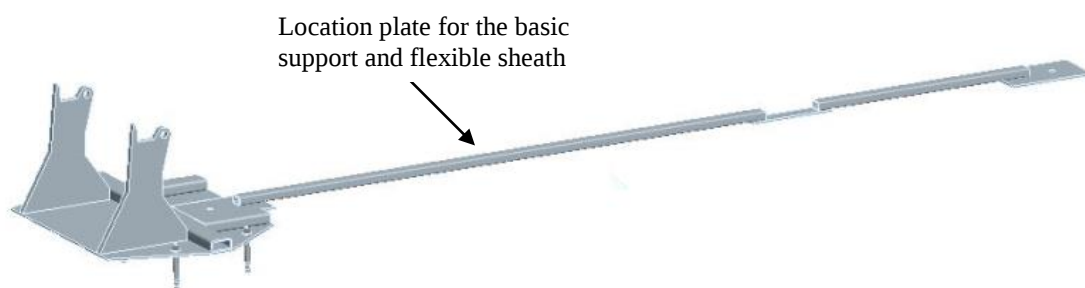


## Starting of the bench in the workshop :

1. Fix the front basic support to the ground with the expansion dowels (delivered) using the drilling plan (page 7).



2. Install the location plate for the basic support and flexible sheath **while making sure of the correct orientation**



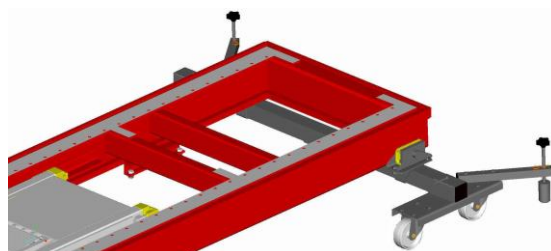
3. Place the rear basic support to the ground



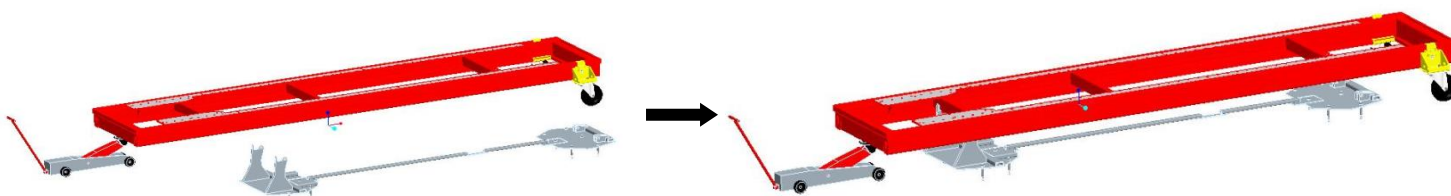
4. With a rolling jack, lift the rear end of the base to insert the wheels 9121.513 or the vehicle shifting trolley GR97.0073



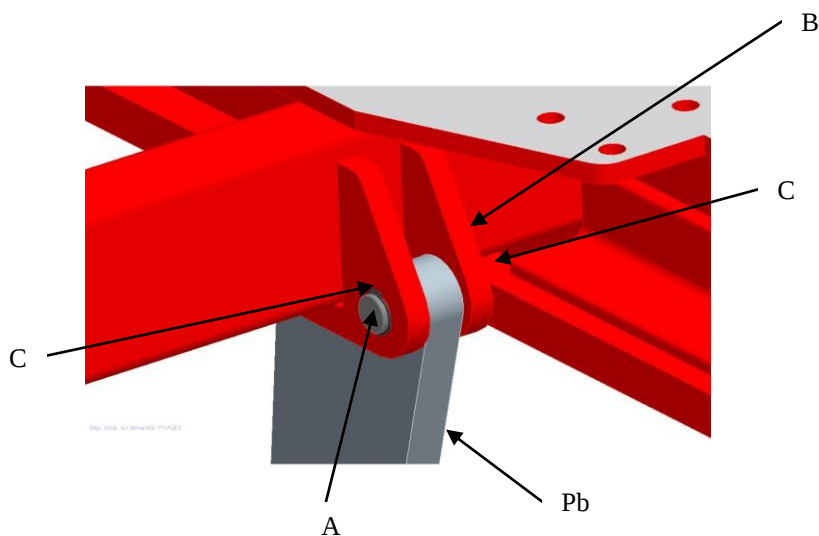
OR



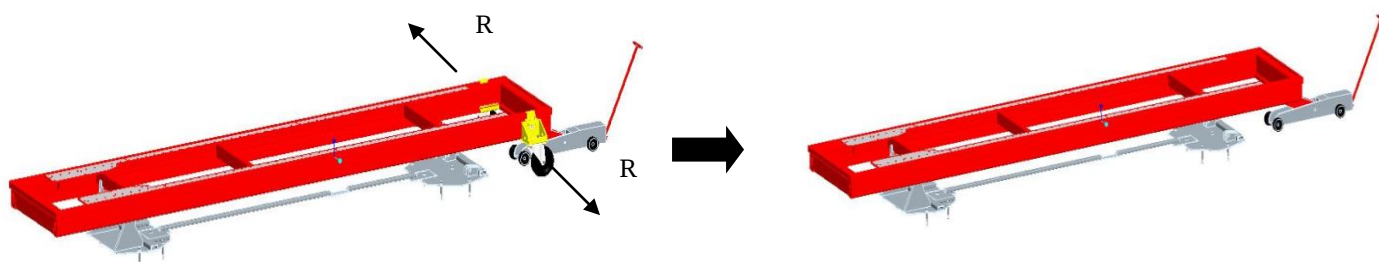
5. Roll the base above the main lifting unit



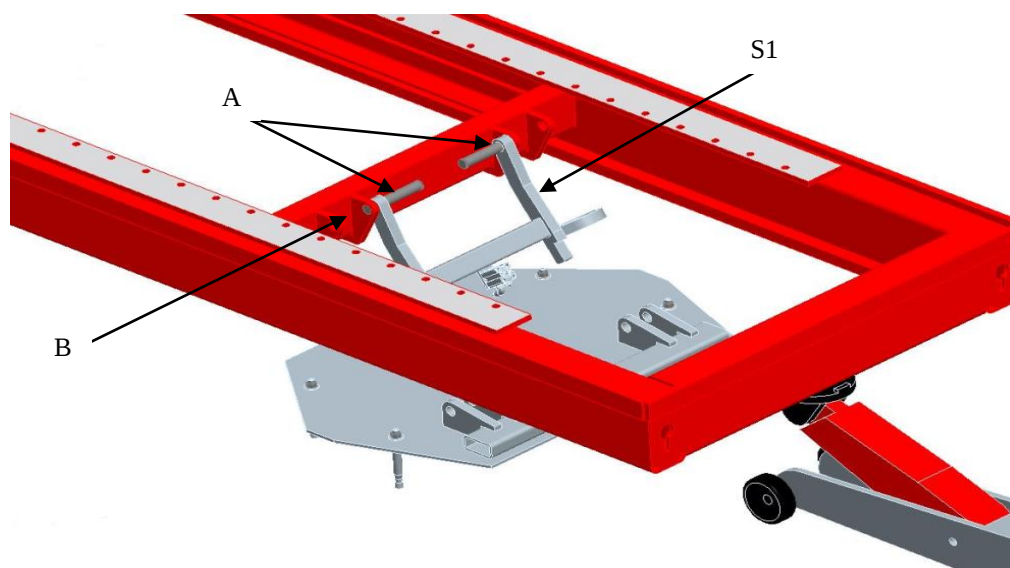
6. Align the base (B) with the front basic support (Pb), then slide the axle (A). Place the two circlips (C) on each side.



7. The rolling jack is now place at the rear of the base in upper position to remove the wheels 9121.513 (R)



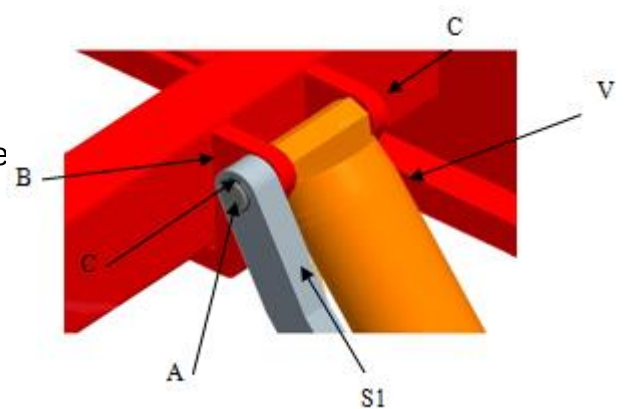
8. Position the bench safety system (S1) on the base (B) with the axles (A)



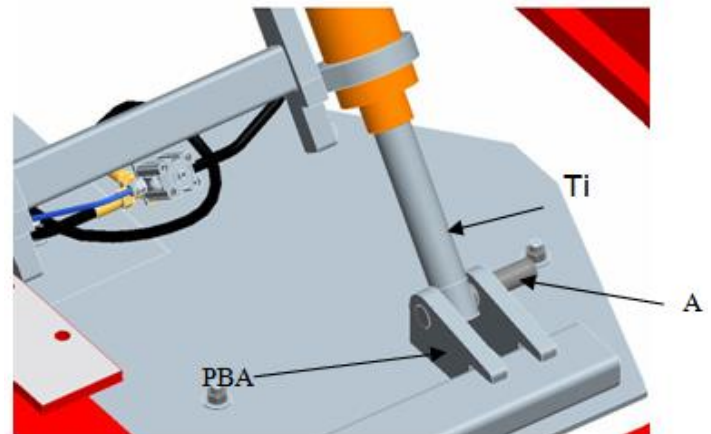
9. Insert rams (V) within corresponding locations (E).



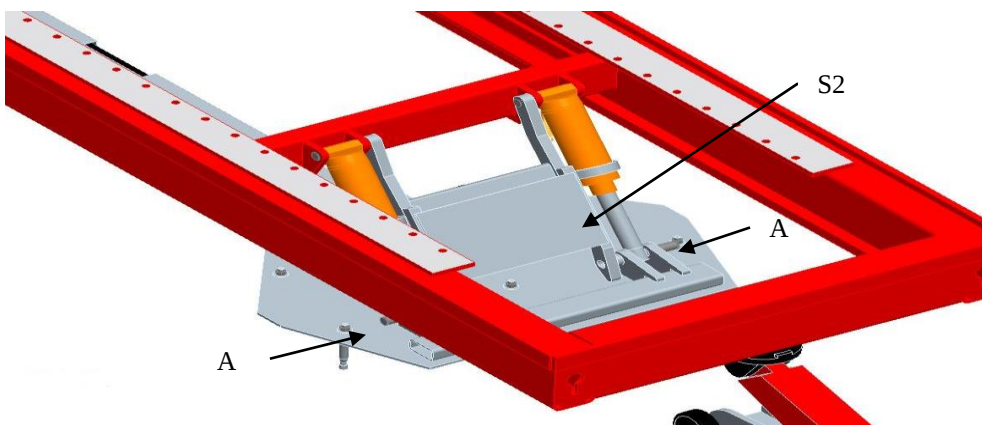
10. The ram (V) and the bench safety system (S1) being in alignment with the base, insert the axle (A) and place the two circlips (C) on each side. (Same operation with the other ram)



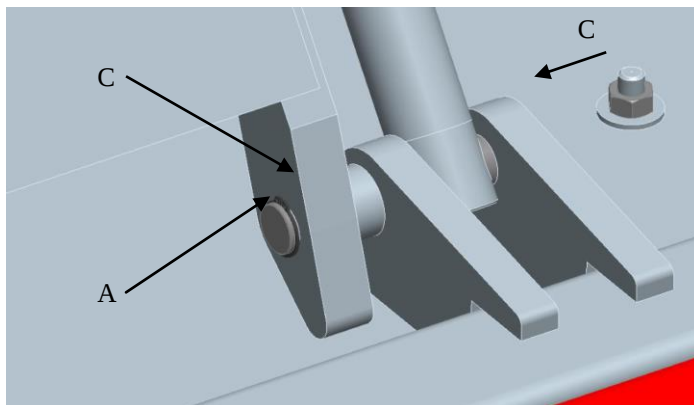
11. Align the ram rod (Ti) with the rear basic support by means of the axle (A)



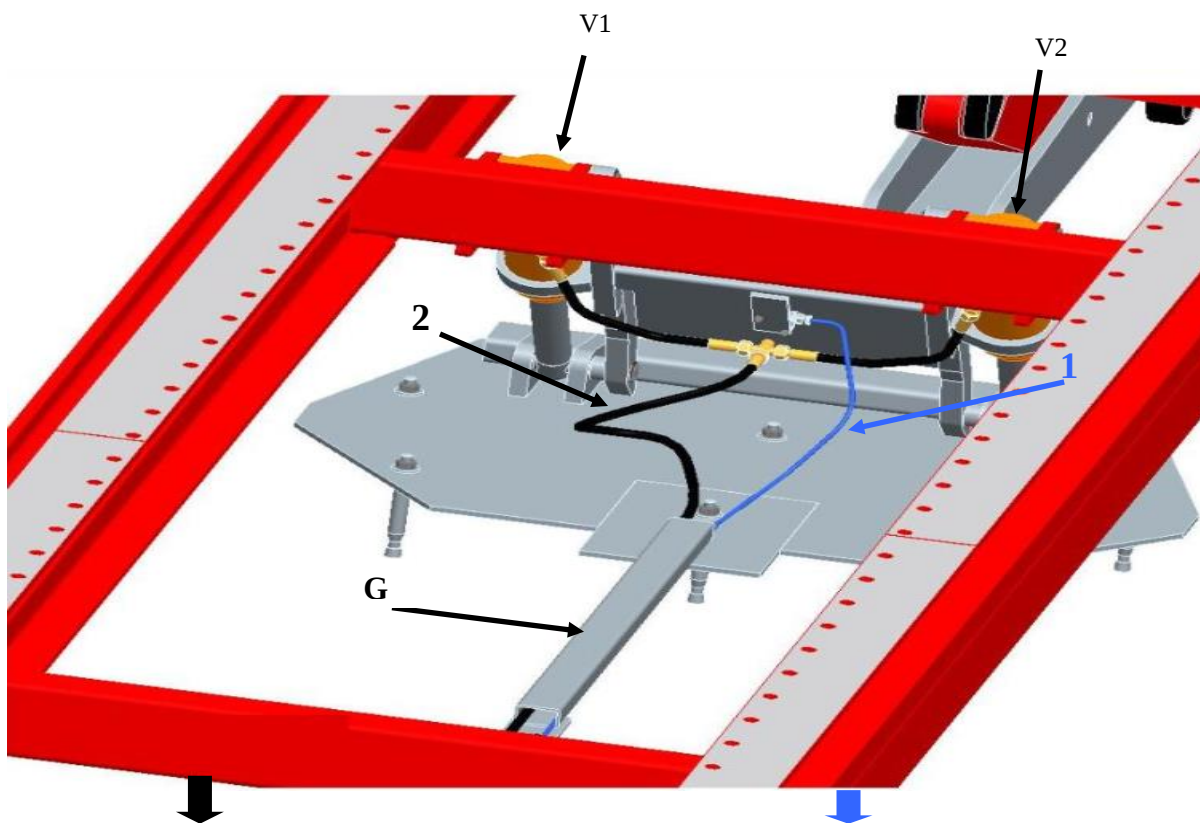
12. Install the bench safety system 2 according to the orientation of the axle (A)



13. Slide taxle (A) to maintain the bench safety system 2 together with the rear basic support, then add circlips (C).

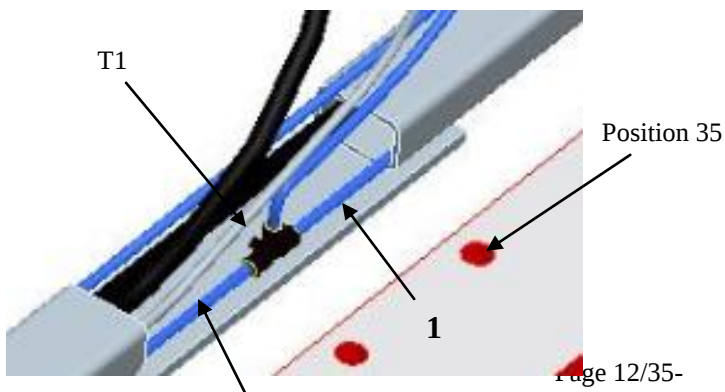
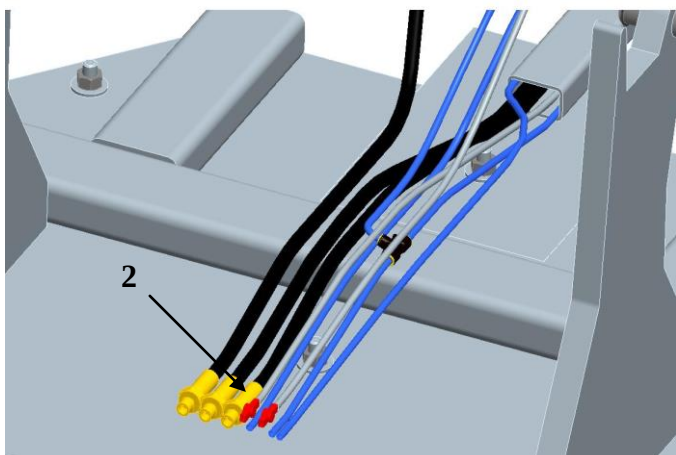


14. Achieve the pneumatic (1) and hydraulic (2) connections of the power unit to the main lifting unit, then slide both connections within the sheath (G)

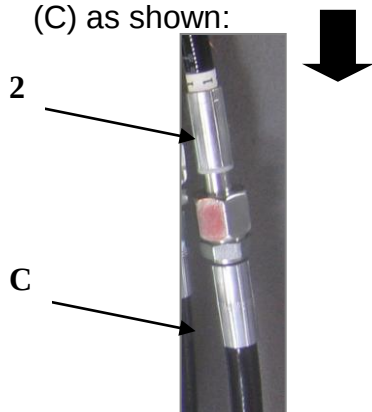


Guide the hydraulic connection (2) within sheath (G) to the power unit.

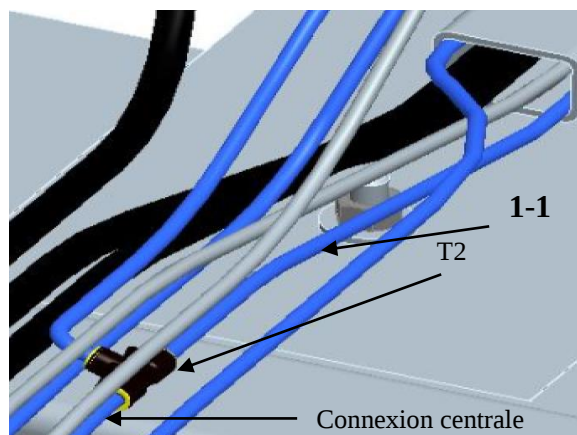
Insert the pneumatic connection (1) into the sheath, then connect it with « T1 », with crossmember in position 35. Achieve the pneumatic connection (1-1) until « T2 »



Connect the hydraulic cable (2) of the main lifting unit to the power until cable (C) as shown:



Insert the power unit connection within T2

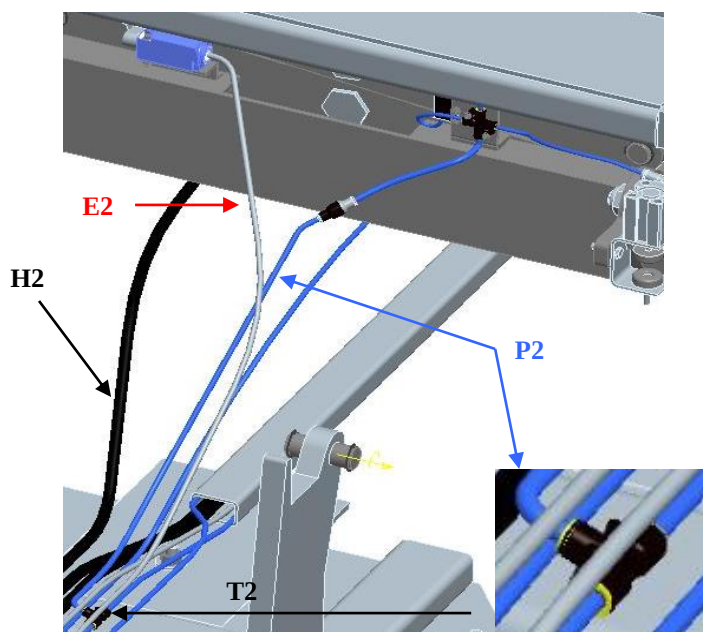
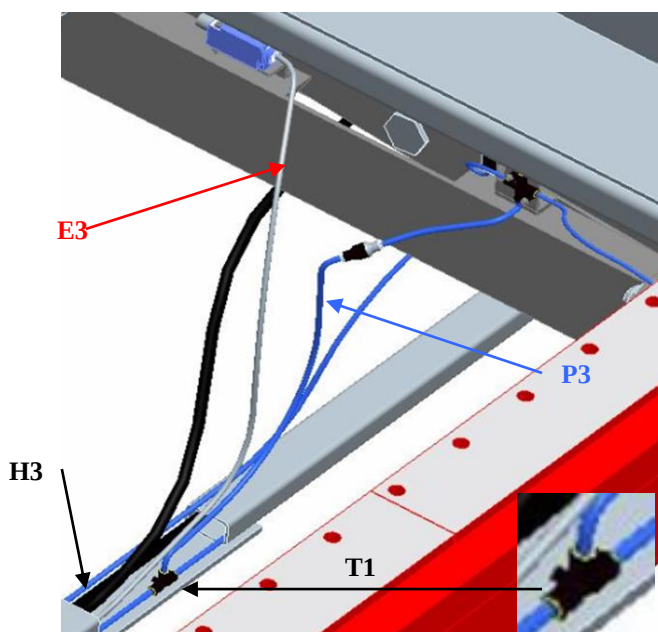


Now, complete the **2 pneumatic (2 and 3)**, hydraulic (2 and 3) and **electrical (2 and 3)** connections of the inner lifting units on the power unit :

| Inner lifting unit 3 | Inner lifting unit 2 |
|----------------------|----------------------|
|----------------------|----------------------|

Insert the pneumatic connection (P3) into « T1 », guide the hydraulic connection (H3) through the sheath, then connect it to the power unit. Plug in electrical connection (E3) to the power unit through a connector (C1).

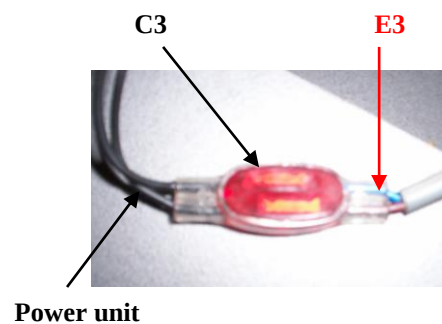
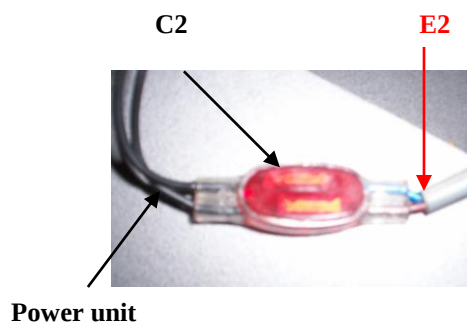
Insert the pneumatic connexion (P2) into « T2 », link the hydraulic connection (H2) to the power unit. Plug in electrical connection (E2) to the power unit by means of a connector (C2).



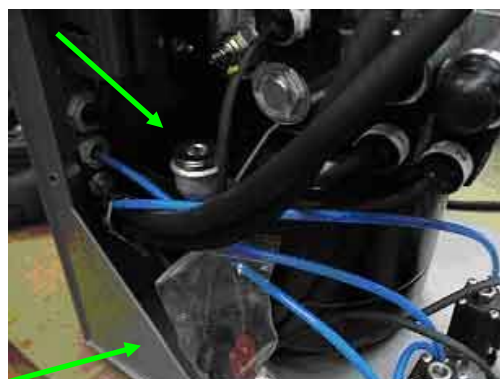
Link up the hydraulic connections (H1, H2, H3) of the lifting units to the power unit as shown hereunder, then plug in the pneumatic connections (P1, P2, P3).



Link up the electrical connections (E2 and E3) to the power unit by means of the scotchlok connectors (C2 and C3).



Open the power unit and fill up the oil tank with the small canister (1L) supplied with the equipment. Then, replace the transport cap with the ventilation cap (packed in a bag fixed to the tank) .



1. Equip the power supply cable with corresponding socket (according to the motor type), and connect it to the appropriate network socket.





**SHOULD THE LIFTING OPERATION NOT BE POSSIBLE  
IN SPITE OF THE CORRECT WORKING OF THE PUMP INVERT 2  
PHASES TO MODIFY THE ROTATION DIRECTION OF THE MOTOR.**

2. Connect the compressed air hose of the power unit to the pneumatic network. The air has to be cleaned, not oiled, and compressed from 6 to 8 bars:



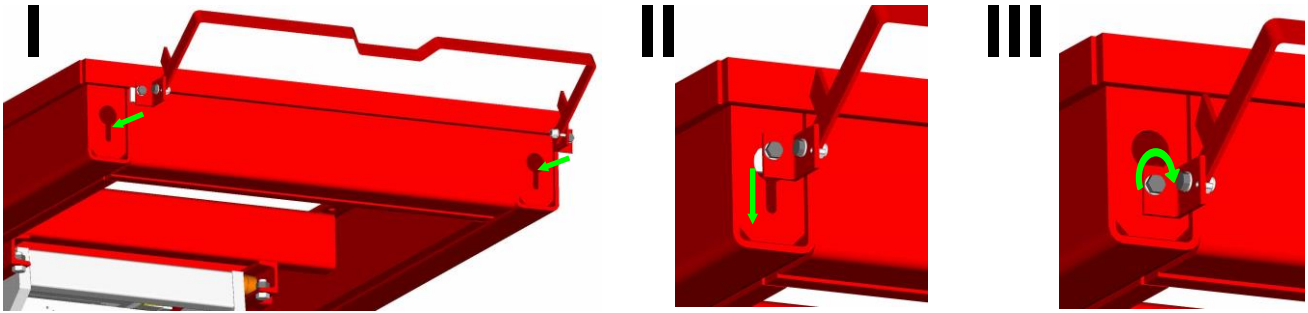
**An uncleaned network may lead to the filling-in of the electrovalves included in the power unit .**

3. Check the correct working of the lifting unit (Page 18 § Control and handling of the main lifting unit).
4. Confirm distances to the walls and obstacles (Pages 6 and 7) and check the levelness of the bench within both directions. Use wedges if necessary
5. Tighten the 12 expansion dowels (delivered) for a safe and secured holding of GRIFFON XL (Refer to the drilling pattern on page 7 )

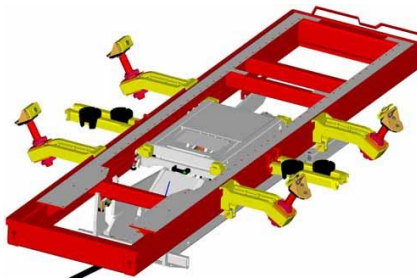


**THE GRIFFON BENCH HAS TO BE FIXED TO THE GROUND  
BEFORE ANY UTILIZATION.**

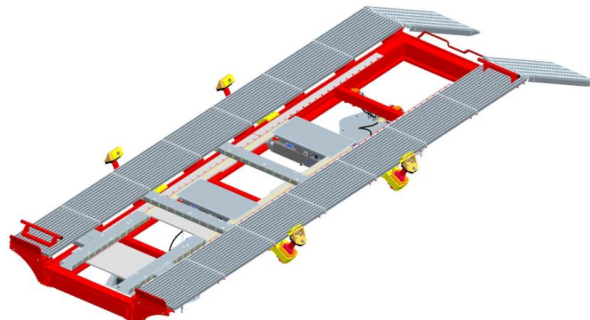
6. On the rear part of the base, fix the foot protection bar :



7. Install the set of clamps on the base. The anchoring clamp arms being fixed to the peripheral frame, the clamps will be inserted on the outer bended part of the arms.



8. Place the runway decking plate and corresponding extension, as well as the access ramps on the base. For the location of the elements refer to page 48 :



The equipment being installed as described above, the bench GRIFFON XL can now be equipped with all the adaptable checking, measuring or repair system, as well as with corresponding accessories of the CELETTE range.



**AFTER A FIRST UTILIZATION, WE STRONGLY RECOMMEND TO CHECK THE TIGHTENING OF THE 12 EXPANSION DOWELS FIXING THE BENCH TO THE GROUND. AN UNCORRECT FIXING COULD GENERATE IRREVERSIBLE DAMAGES.**

**NB :** a load test has to be completed to validate the installation of the equipment. The chart hereunder states the tests to be achieved. A load test form has to be signed at the end of the installation. Should the customer not be in a position to complete this test, he would have to commit himself to achieve or have this load test completed as soon as possible, while signing the form included at the end of the manual.

| Test type    | Load    | Duration                            |
|--------------|---------|-------------------------------------|
| Static test  | 6300 Kg | 1 hour                              |
| Dynamic test | 4830 Kg | Complete cycle : lifting / lowering |

## Control and handling of the main lifting unit :

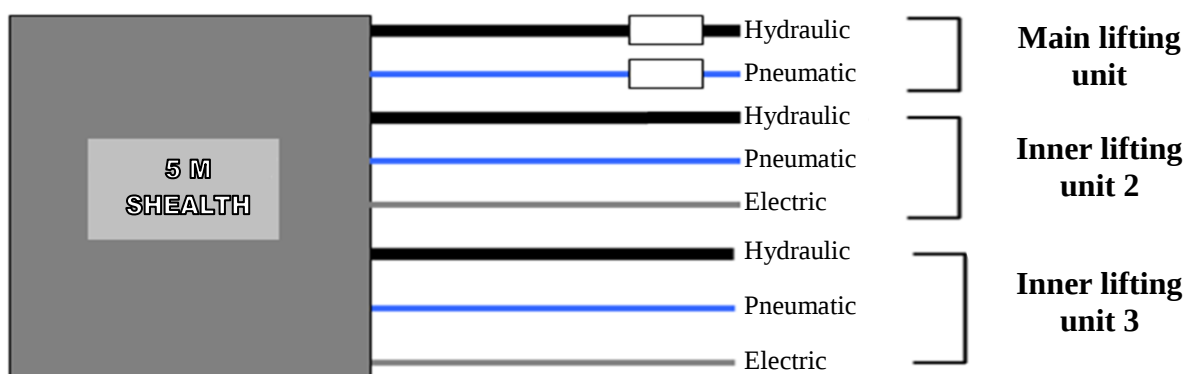
### 1. CONTROL :



### 2. HANDLING :

Follow the safety instructions on the rear panel of the hydraulic power unit. Before each operation, check that the power unit is under pressure (A).

- CENTRAL SHEATH :**





**To lift or lower the main lifting unit, the inner lifting unit has to be in lower position (with the green LED lighted on).**

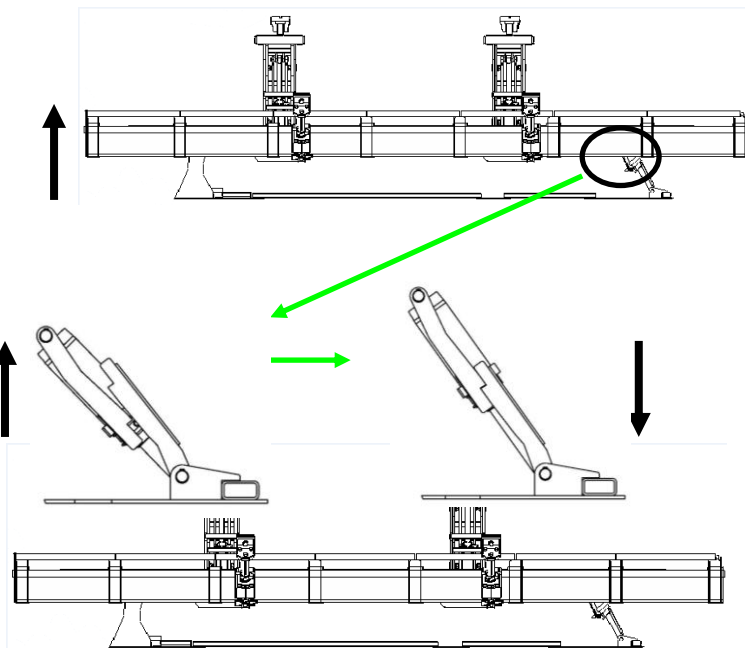
• **LIFTING :**

I Press drive **(C)** to activate the horizontal safety unit

II Press drive **(D)** to lower the safety unit on the safety racks.



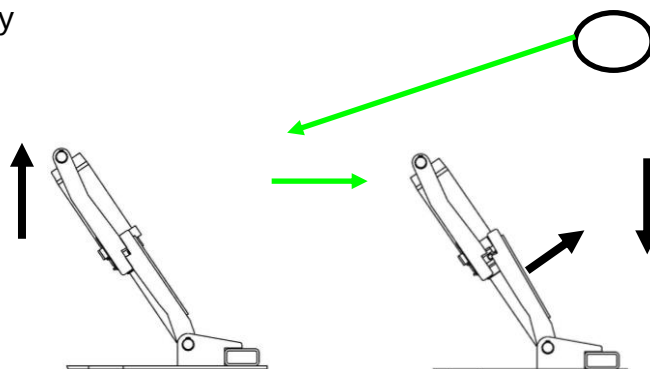
**While in use, always place the safety system of the lifting unit on its safety racks .**



• **LOWERING :**

I Activate drive **(C)** to unlock the safety system

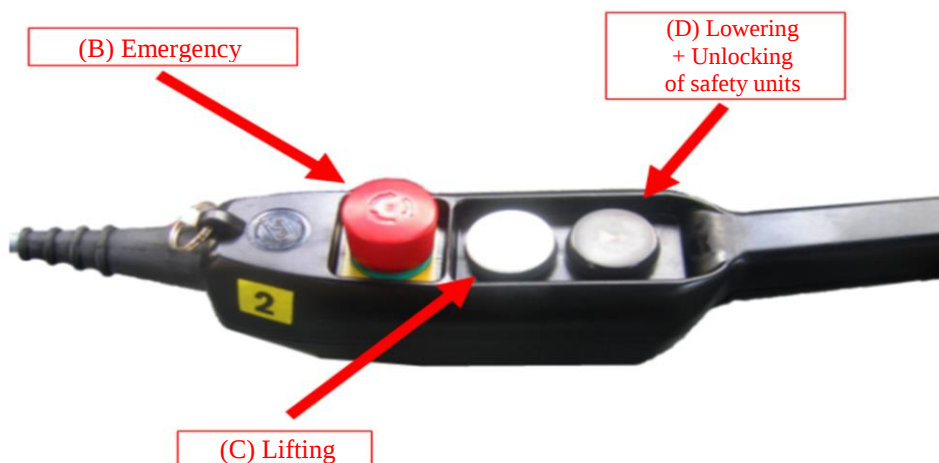
II Activate drive **(B)** and drive **(D)** until complete tilting of the bench



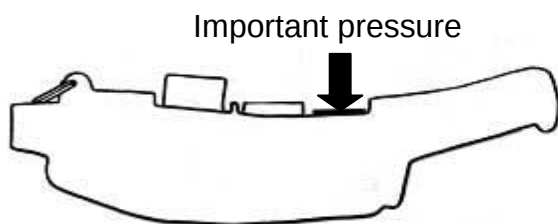
**Remote control and handling of the inner lifting units :**

**CAUTION :** While activating the inner lifting units, make sure that nobody will stand less than 1,50 m away from the device. The user will have to check the load carefully during the whole operation.

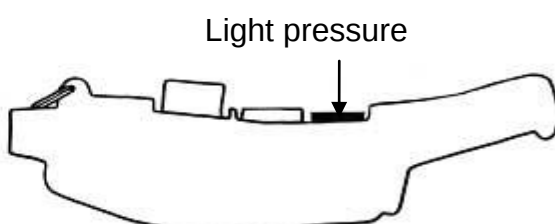
2. **CONTROL :**



## Unlocking of safety units and lowering



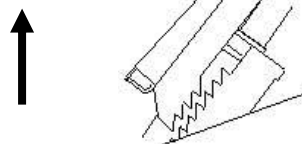
## Lowering to lock the safety units



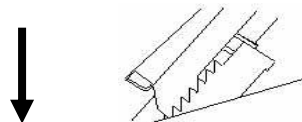
## 2. HANDLING :

### • LIFTING :

I Activate drive **(C)** until selected height.

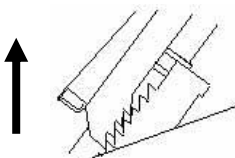


II Slightly activate drive **(D)** to place the safety unit on its racks.

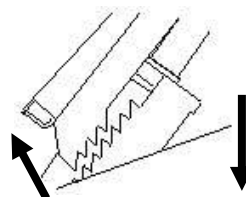


### • LOWERING :

I Activate drive **(C)** to unlock the safety units.

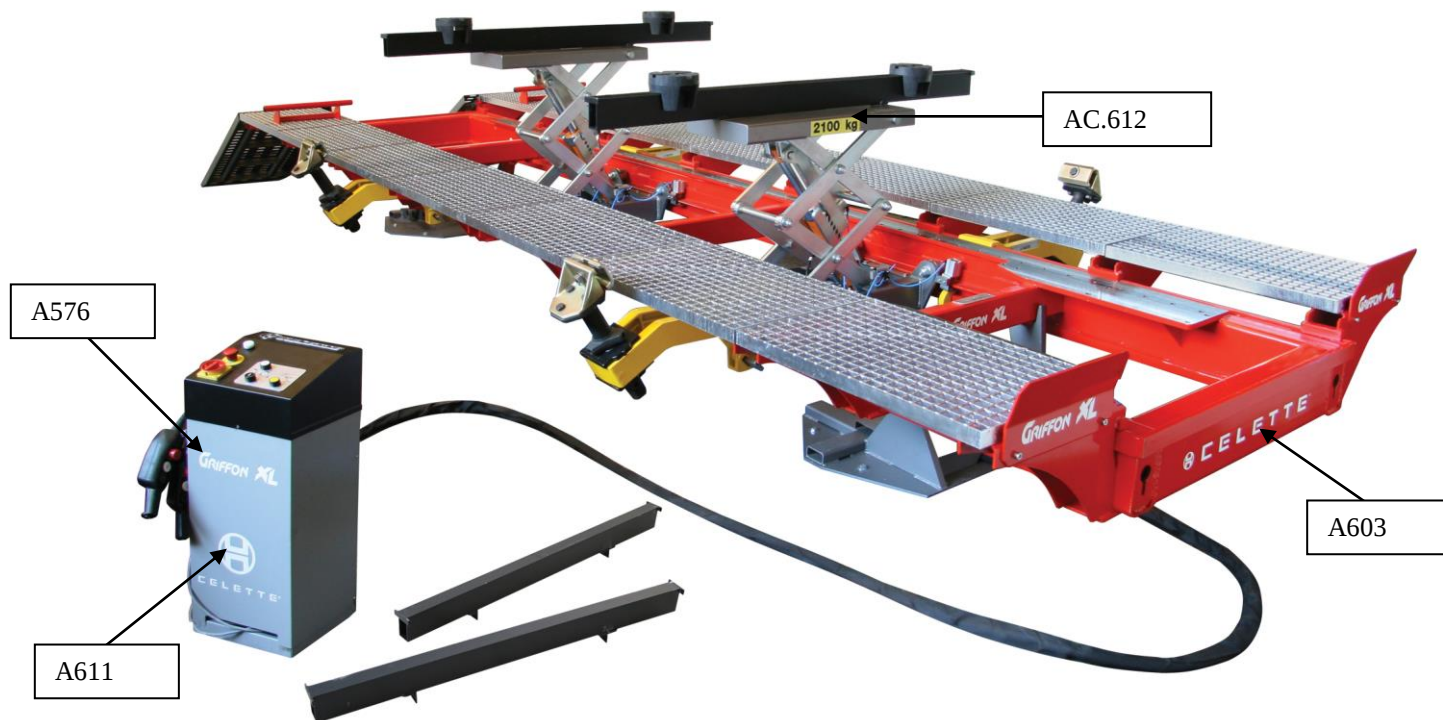


II Strongly activate drive **(D)** until selected height.



**While in use, always place the racks of the inner lifting unit with the upper part resting on the lower part.**

**Stickers :**



AC.613



A606



AC.614



AC.615

| Sticker | Qty |
|---------|-----|
| A603    | 2   |
| A606    | 2   |
| A611    | 1   |
| A576    | 5   |
| AC.613  | 1   |
| AC.612  | 2   |
| AC.614  | 1   |
| AC.615  | 1   |

Should stickers **A346** be damaged, it is imperative to replace them upon request to CELETTE S.A.

Should the other stickers be damaged, it is also possible to replace them in the same manner.

**A346**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <p style="text-align: center;"><b>INSTRUCTIONS D'UTILISATION - CONSIGNES DE SECURITE</b></p> <p>Cet élévateur doit être utilisé uniquement lorsqu'il est relié et verrouillé au marbre.<br/>         L'utilisation de l'élévateur n'est autorisée qu'à des personnes de plus de 18 ans.<br/>         La présence de personnes sous ou dans le véhicule lors des opérations de levage et de descente est strictement interdite.<br/>         Le levage de charges dont le poids est supérieur à celui indiqué sur l'élévateur est interdit.<br/>         Le personnel utilisant le matériel doit constamment surveiller le véhicule lors des montées et descentes.<br/>         Avant la descente, tous les accessoires se trouvant dans la zone de travail du marbre doivent être éloignés.<br/>         Les instructions d'utilisation de l'élévateur et les contrôles réguliers sont à suivre soigneusement.</p> <p style="text-align: center;">*****</p> <p style="text-align: center;"><b>OPERATING INSTRUCTIONS - SAFETY PRECAUTIONS</b></p> <p>The lifting unit will be used only after connection and locking to the bench.<br/>         The utilization of the lifting unit is not allowed to people under 18 years old.<br/>         It is prohibited to stay under or in the car during lifting or lowering operations.<br/>         The lifting of weight exceeding the one stated on the lifting unit is not allowed.<br/>         The staff using the device must continuously check the vehicle during lifting or lowering operations.<br/>         Before placing the unit down, remove all accessories within the bench area.<br/>         Operating instructions and regular checkings have to be carefully followed.</p> <p style="text-align: center;">*****</p> <p style="text-align: center;"><b>VERWENDUNGSANLEITUNGEN UND SICHERHEITSVORSCHRIFTEN</b></p> <p>Die Hebebühne darf nur in Verbindung und nach Verriegelung mit der Richtbank verwendet werden.<br/>         Das Hebesystem darf nicht von Personen unter 18 Jahren bedien werden.<br/>         Es ist strikt verboten, sich unter oder auf der Hebebühne beim Heben oder Ablassen zu befinden.<br/>         Die zulässige Nutzlast darf nicht überschritten werden.<br/>         Beim Anheben oder Ablassen soll das Fahrzeug ständig überwacht werden.<br/>         Vor jedem Ablassen müssen alle Störteile, die sich in der Nähe der Richtbank befinden, entfernt werden.<br/>         Die Betriebsanleitungen des Hebesystems und die regelmäßigen Überwachungen müssen sorgfältig beachtet werden.</p> <p style="text-align: center;">*****</p> <p style="text-align: center;"><b>ISTRUZIONI PER L'USO - NORME DI SICUREZZA</b></p> <p>Il sollevatore deve essere utilizzato soltanto dopo collegamento e bloccaggio sul banco.<br/>         L'utilizzazione del sollevatore non è autorizzata ai minori di 18 anni.<br/>         E' vietato restare sotto o dentro al veicolo durante le operazioni di sollevamento e di discesa.<br/>         Il sollevamento di carichi superiori al peso indicato sul sollevatore è proibito.<br/>         Gli utilizzatori del sollevatore devono sorvegliare costantemente il veicolo durante il sollevamento o la discesa.<br/>         Prima della discesa, tutti gli accessori presenti nella zona di lavoro del banco devono venire rimossi.<br/>         Le istruzioni per l'uso e i controlli regolari del sollevatore devono essere seguiti accuratamente.</p> <p style="text-align: center;">*****</p> <p style="text-align: center;"><b>INSTRUCCIONES DE UTILIZACION - CONSIGNAS DE SEGURIDAD</b></p> <p>Este elevador debe ser utilizado solamente cuando esta conectado y sujeto al banco.<br/>         Unicamente puede ser utilizado por mayores de 18 años.<br/>         La presencia de personas debajo o dentro del vehículo en el momento de la subida y bajada esta estrictamente prohibida.<br/>         La subida de cargas cuyo peso sea superior a lo indicado en el elevador esta prohibida.<br/>         Los operarios deben vigilar continuamente el vehículo durante las subidas y bajadas.<br/>         Antes de la bajada, todos los accesorios que se hallen en la zona de trabajo cerca del banco deben ser retirados.<br/>         Seguir con suma atención las instrucciones de utilización del elevador así como los controles periodicos del mismo.</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Identification plates :

1. On the power unit, the identification plate is located on the rear panel :



|                                                                                                                                                                                        |                                        |                                      |                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------|
|  <b>CELETTE</b><br>CAR LIFE SOLUTIONS<br>CELETTE SA - 13 Route de Bechevienne - 38200 Vienne - France |                                        | <b>GRIFFON XL</b>                    | MADE IN FRANCE<br> |
| TYPE: GXL08                                                                                                                                                                            | N° <input type="text"/>                | Year: <input type="text"/>           |                                                                                                       |
| PRIMARY VOLTAGE<br><input type="text"/> V                                                                                                                                              | PHASE NUMBER<br><input type="text"/> ~ | FREQUENCY<br><input type="text"/> Hz | AMPERAGE<br><input type="text"/> A                                                                    |
| SECONDARY VOLTAGE<br><input type="text"/>                                                                                                                                              | MAX AIR PRESSURE<br>8 Bar              | HYDRAULIC PRESSURE<br>280 Bar        |                                                                                                       |

NB : In case of trouble, the information stated on this plate will be requested by the After Sales Dept.

|                                                                                                                                                                                          |                         |                               |                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------|
|  <b>CELETTE</b><br>CAR LIFE SOLUTIONS<br>CELETTE SA - 13 Route de Bechevienne - 38200 Vienne - France |                         | <b>GRIFFON XL</b>             | MADE IN FRANCE<br> |
| TYPE: GXL08                                                                                                                                                                              | N° <input type="text"/> | Year: <input type="text"/>    |                                                                                                         |
| MAXIMAL LOAD<br>4200 daN                                                                                                                                                                 |                         | TARE<br>2367 daN              |                                                                                                         |
| MAX AIR PRESSURE<br>8 Bar                                                                                                                                                                |                         | HYDRAULIC PRESSURE<br>280 Bar |                                                                                                         |

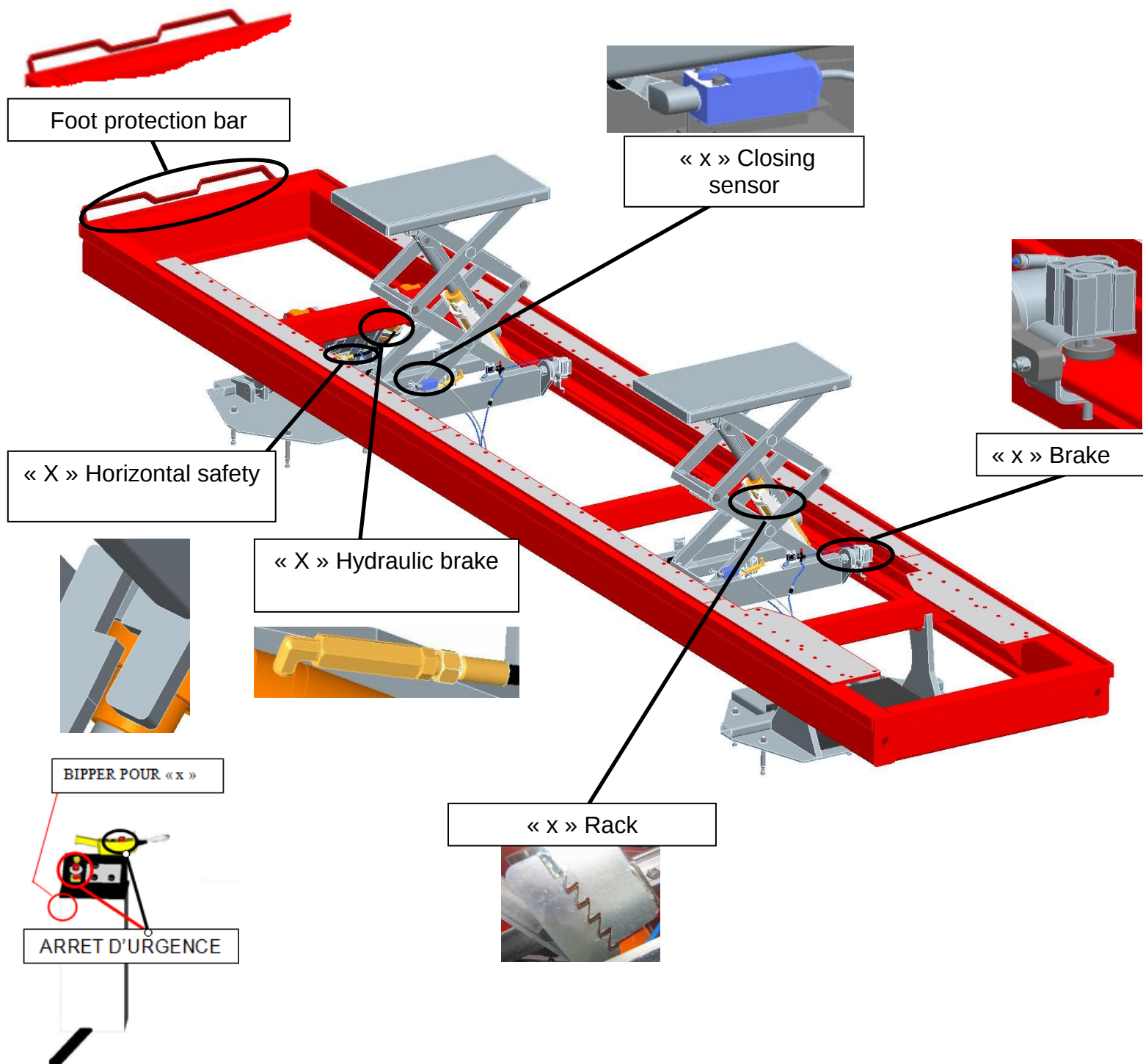
2. On the base, the identification plate is to be found on the front crossmember :



|                                                                                                                                                      |                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  <b>CELETTE</b><br>TYPE : GRIFFON - NZ<br>N° <input type="text"/> |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|

NB : Should one of these plates be damaged, it is imperative to replace it upon request to CELETTE S.A.

## Safety devices :



Foot protection bar : Safety bar to prevent the feet from going under the base when being tilted.

Emergency stop : Safety button to stop the bench instantaneously.

Closing sensor : Avoid the activation of the main lifting unit when using the inner lifting unit. Can only be unlocked once the inner lifting unit is in low position..

Rack : Mechanical safety system blocking the lowering operation by means of steel notches

Brake : Locks the inner lifting unit within the base, whatever its position may be, during the activation of the main lifting unit.

Hydraulic brake : System limiting the oil leaking in the jack area, for a low and souple lowering, whatever the load may be .

Bipper for « x » : Sound signal indicating the operator that the inner lifting unit is going down

Automatic safety system : System insuring the holding of the vehicle on the runway decking plates.

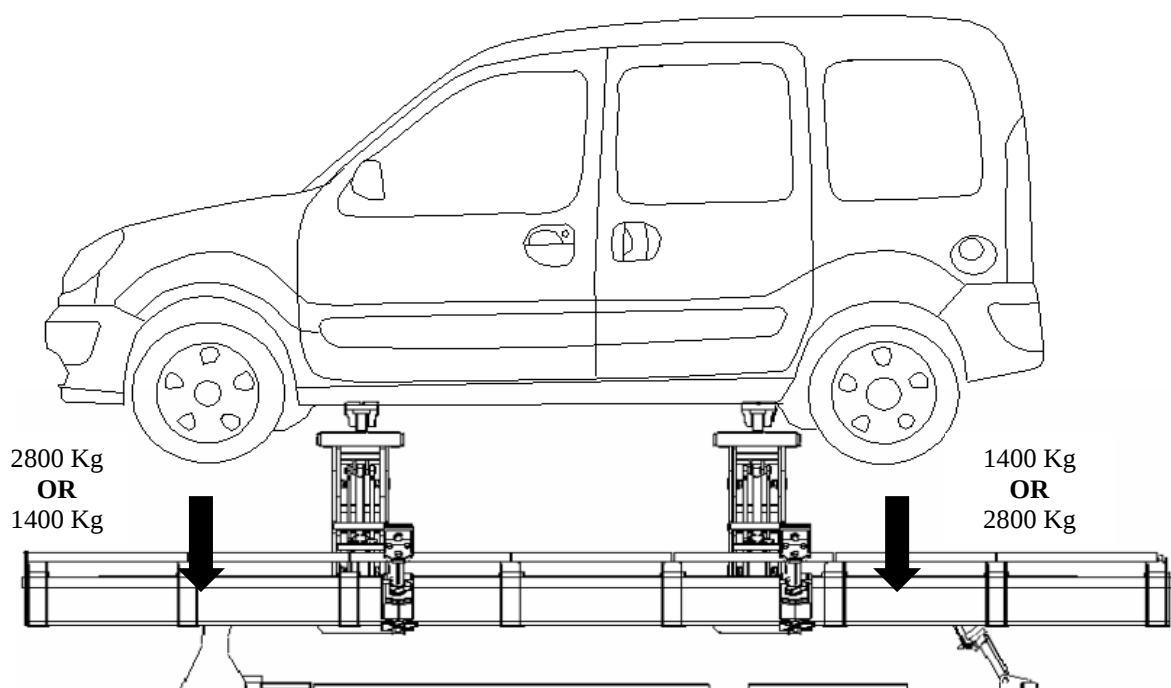
« X » horizontal safety system : Mechanical safety system holding the bench in horizontal position in case of trouble by means of a steel notch.

#### **POSSIBLE RISKS**

| <b>RISKS</b>                                                            | <b>SOLUTION</b>                                                                        |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Crushing – Pinching out                                                 | Sound signal for mobile lifting unit.<br>Foot protection bar for the main lifting unit |
| Cutting                                                                 | Control unit with continuous activation                                                |
| Hydraulic leakage                                                       | Automatic locking of safety systems (mechanical rack)                                  |
| Hose breaking                                                           | Lowering control system with valve                                                     |
| High pressure fluid projection                                          | Overpressure preventer                                                                 |
| Activation of the lifting unit during a repair or maintenance operation | Main switch with padlock system                                                        |
| Shifting of the vehicle on the lifting unit                             | Automatic anchor post / Manual pllate                                                  |
| Fluid projection                                                        | IP54 power unit                                                                        |

#### **Balance of weights :**

Maximal load capacity : **4200 KG** divided in 2/3,1/3 on each axle.



## Utilization :

### 1. Installation of a rolling vehicle on the base :



I Slowly and smoothly lift up the vehicle

II Install the locking wedges before lifting up the unit  
Place the bench horizontally on the safety elements.



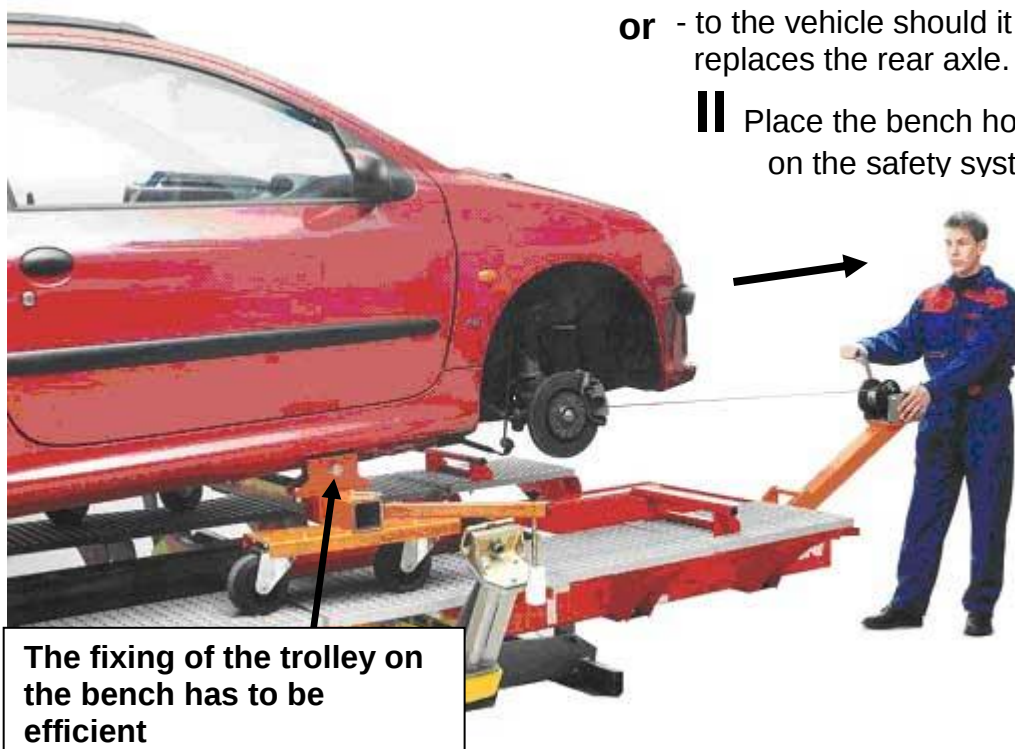
### 1BIS. Installation of a vehicle with one non-rolling axle on the base :

- Use the option **GR97.0073** including the installation trolley and the manual winch.

I The vehicle will be towed with the winch, which cable will be fixed directly : - to the trolley should it replaces the front axle

or - to the vehicle should it replaces the rear axle.

II Place the bench horizontally on the safety system

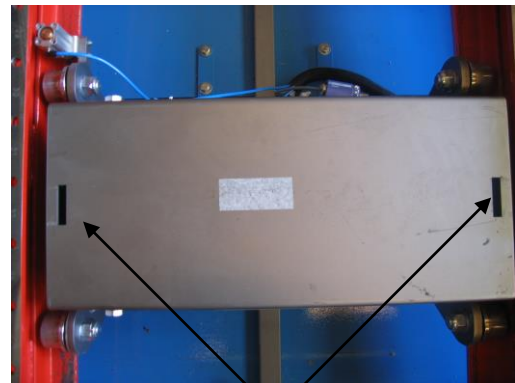


The fixing of the trolley on the bench has to be efficient

## 2. The inner lifting unit :

- PRESENTATION :

I Folded into the base, the lifting unit looks like this :

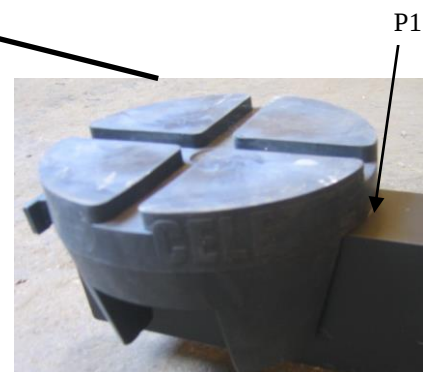


Notches (F) located at the end of the inner lifting unit enable to insert a lifting bar (B).



II When opened, , it enables to position the rubber plates in two different ways

- Position 1 :



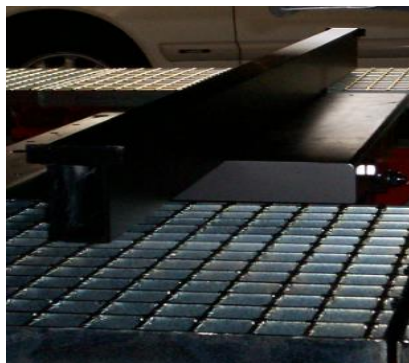
- Position 2 :



- UTILIZATION (The vehicle stands on the base) :



**I** Separate the vehicle from the base by means of the remote control system, to give access to the lifting unit and insert the lifting bars.



**II** Install the lifting bars, while using corresponding notches.

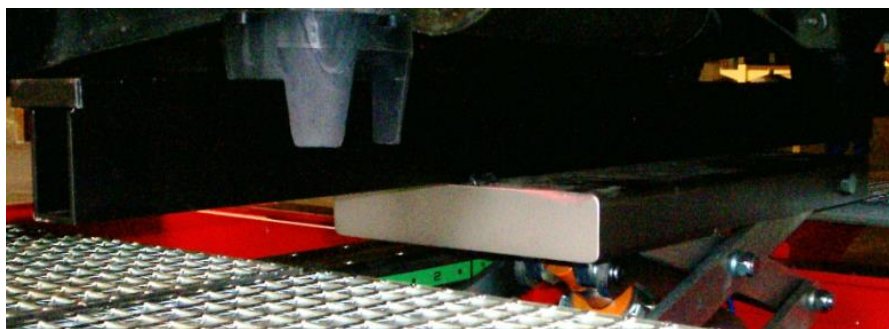


**Never use these lifting bars in another way**

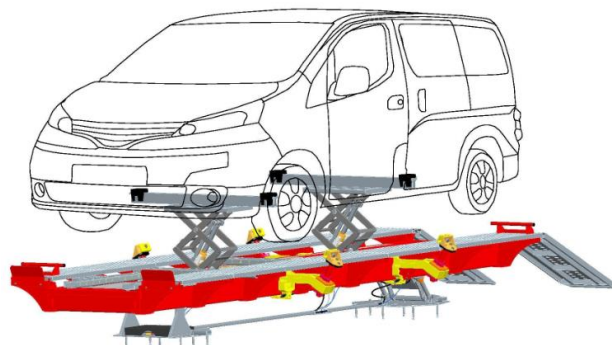


**III** Place the plates on the lifting bar, nearby the vehicle lifting points.

**IV** Lift the unit in alignment until reaching lifting points.  
Check the centring in the Y direction to improve this possible or any future shifting.



**V** Slowly lift the vehicle.  
Should the balance seem precarious, lower it again and check the extensions.  
**Place the lifting unit on the safety system.**



**Steadily check the level of both lifting units. An important gap between the lifting units would result in the shifting of the vehicle.**

**VI** In this position, the vehicle can be shifted manually in both directions : horizontal and vertical, thanks to the remote control system, in view of its installation on :

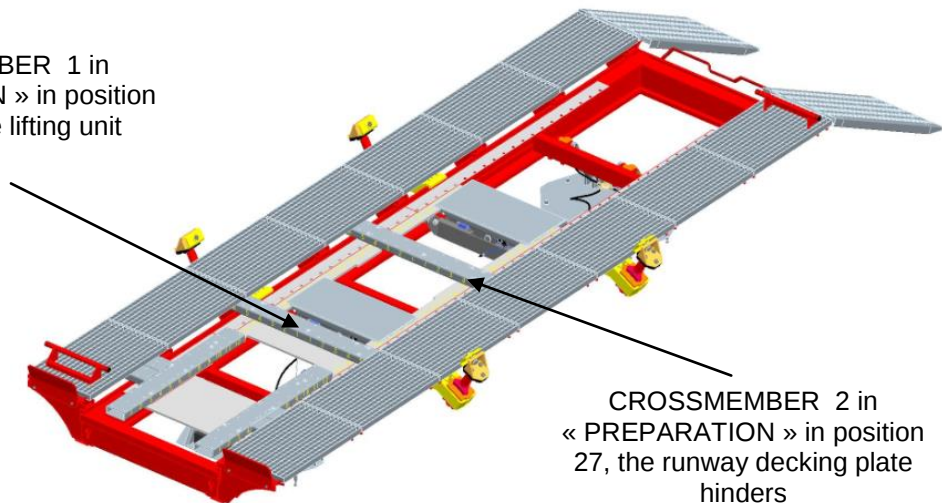
- the « MZ » system
- the measuring system « METRO 2000 »
- the electronic measuring system « NAJA »

## Options :

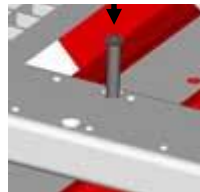
### 1. « MZ » system :

- Adjust the bench according to the « MZ » data sheets, while completing a first installation of the crossmembers (it is easier to place them before installing the vehicle on the bench) :
- To give an example, 2 crossmembers are necessary :

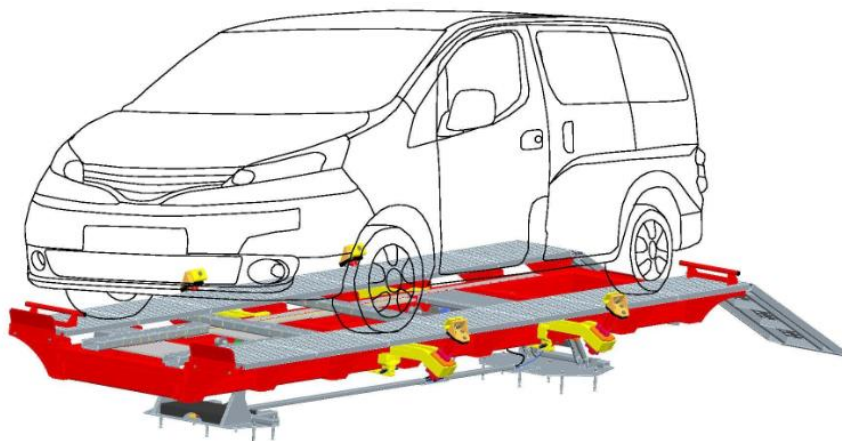
CROSSMEMBER 1 in  
« PREPARATION » in position  
17 to lift up the lifting unit



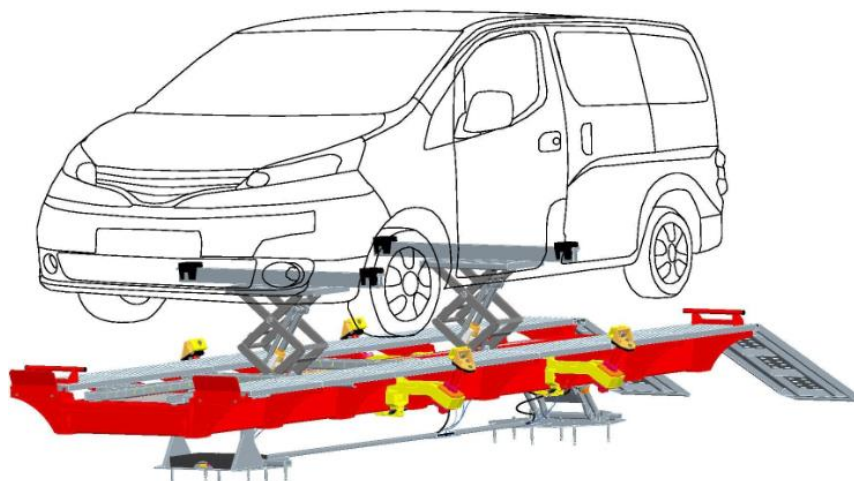
For a safe handling of the  
elements, lock the  
crossmembers  
«preparation » position with  
a screw on each side .



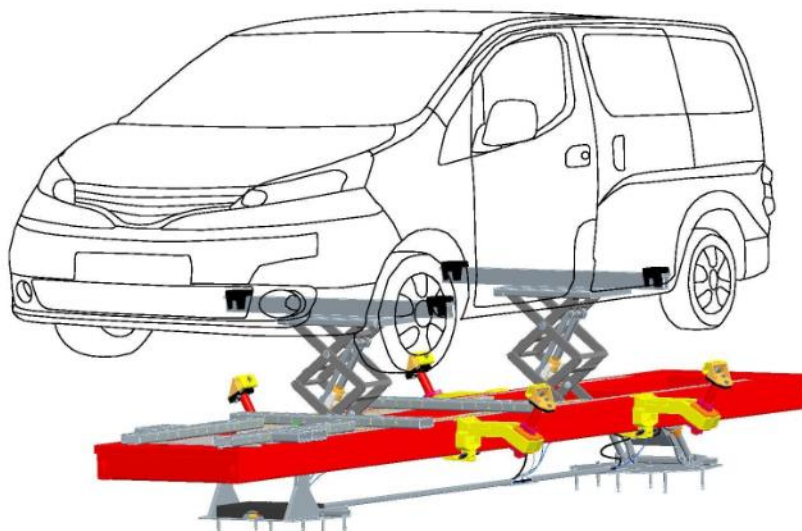
- Lift the vehicle on the bench as described on page 25:



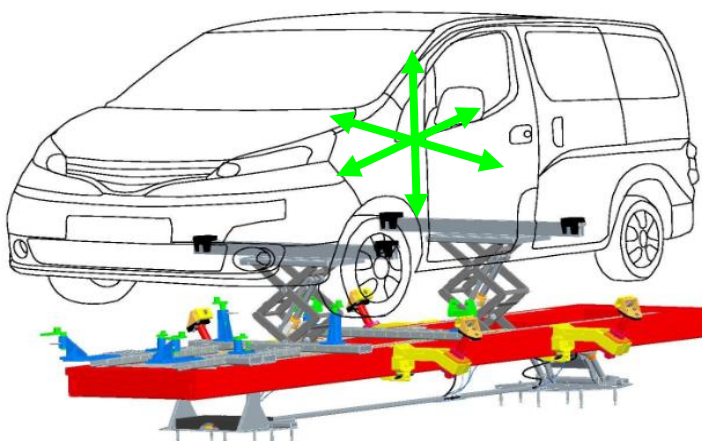
- Lift the vehicle by means of the inner lifting unit, as described on page 27 :



- When not already completed, remove the elements of the runway decking plate which may hinder the fixing of the crossmembers in their final locations.

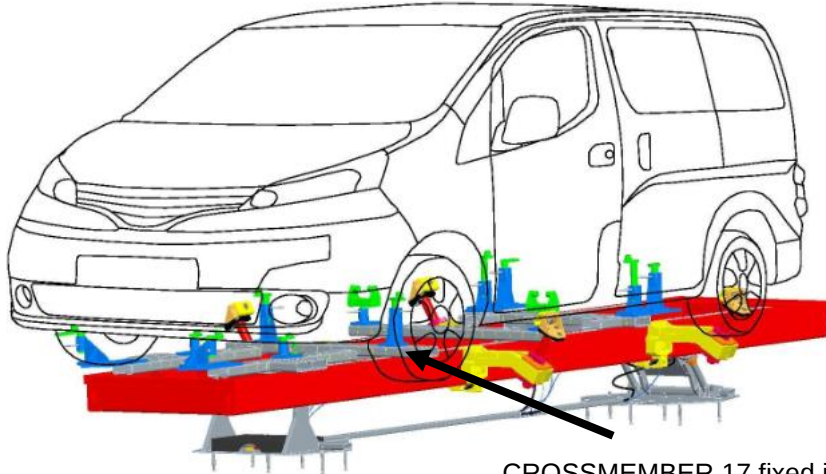


- Install the necessary and sufficient number of MZ towers to place the vehicle on the bench. Adjust its position on the jigs while shifting the lifting unit :



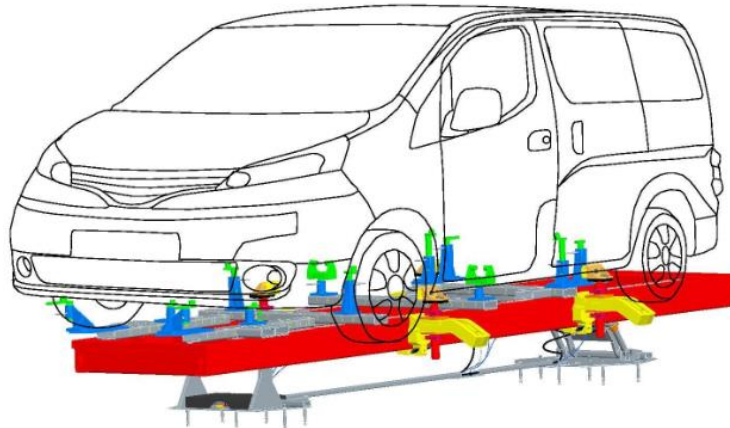
**CAUTION** : the technician, like any other person on the work area, has to stand **1,50m** away from the load during any lifting or lowering operation.

- The vehicle being in position on the brackets, lower the inner lifting unit while taking off the lifting bars. Fix the crossmembers from position 13 to 24 (included) :



CROSSMEMBER 17 fixed in position 20

- Achieve the installation of towers and jigs, lock the vehicle through the sill panels by means of the anchoring clamps.



The vehicle is now ready to be repaired

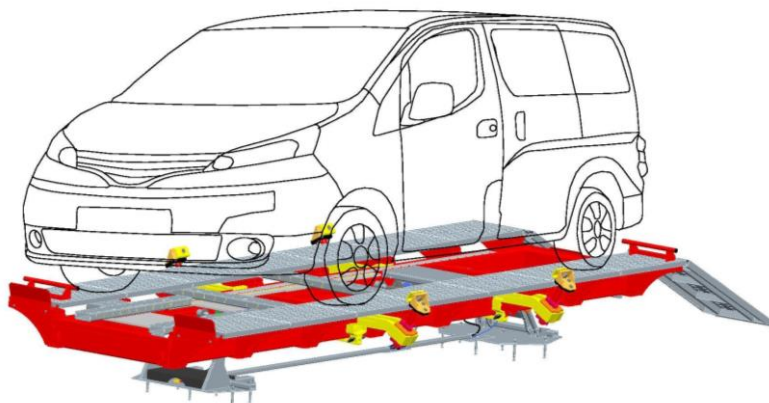
- The repairs being completed, release the vehicle while proceeding in the reverse way

**CAUTION**

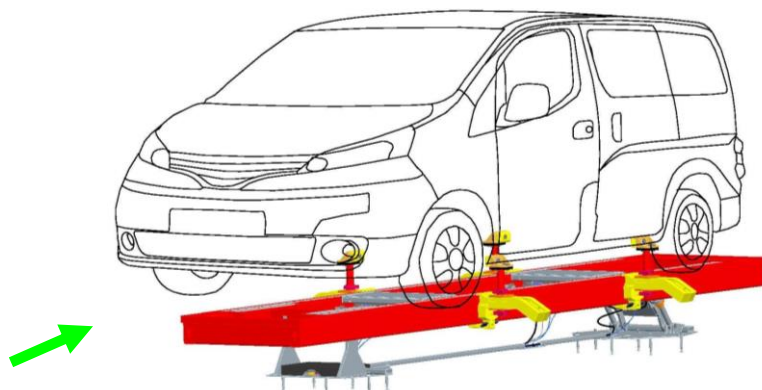
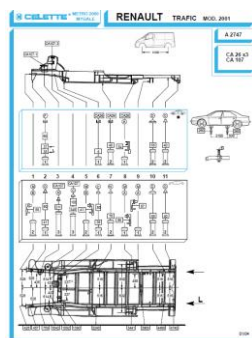
Place the duckboards and the access ramps in correct position again.

**2. The measuring device « METRO 2000 » :**

- Install the vehicle on the bench as shown on page 25 :



- Lift the vehicle with the inner lifting unit, as explained on page 27, then adjust the clamp height according to the indications of the « METRO » data sheet corresponding to the vehicle. Lock the vehicle on the clamps and lower the inner lifting unit :



- Slide the METRO 2000 frame between the base and the vehicle and fix it. Install the sliders according to the data sheet, repair.
- The repair being completed, proceed in the reverse way to release the vehicle.

**CAUTION :**

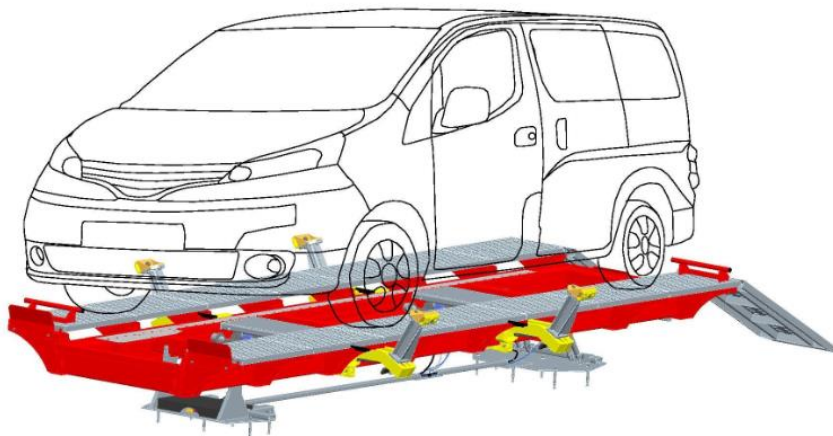
Place the duckboards and the access ramps in correct position again.



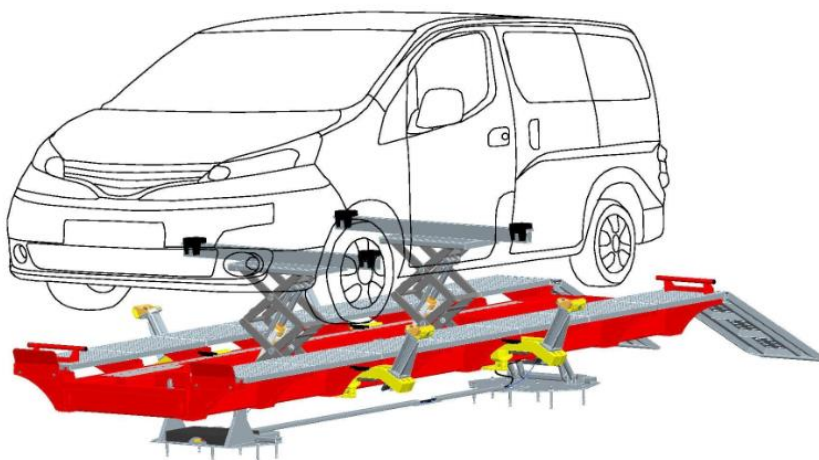
The repair of commercial vehicles with the measuring system is not recommended, CELETTE could not be held responsible for possible damages to the vehicle.

### 3. The electronic measuring device « NAJA » :

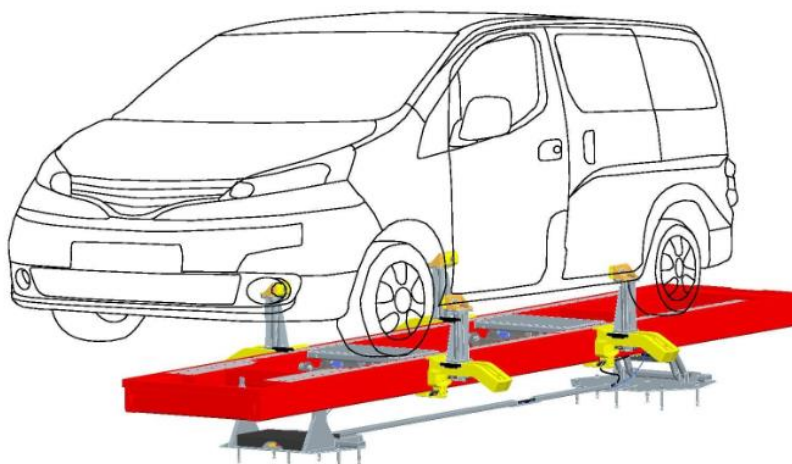
- We advise to replace the adjustable clamps with the static ones. Then, lift the vehicle on the bench as explained on page 25 :



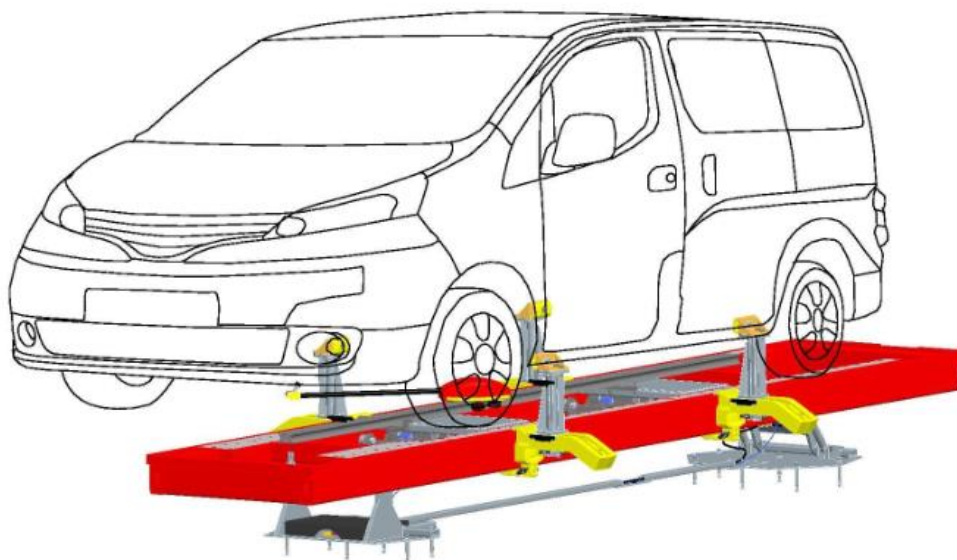
- Lift the vehicle with the inner lifting unit, as explained on page 27 :



- Remove the runway decking plates. Anchor the vehicle on the clamps. Lower the inner lifting unit :



- Fix the « NAJA » rail supports on the base and place the Naja above. Install the measuring head, repair.



- The repair being completed, proceed in the reverse way to release the vehicle

**CAUTION :**

Place the duckboards and the access ramps in correct position again.

**Accessories :**

To make your job easier, a large range of options and accessories can be used together with this equipment

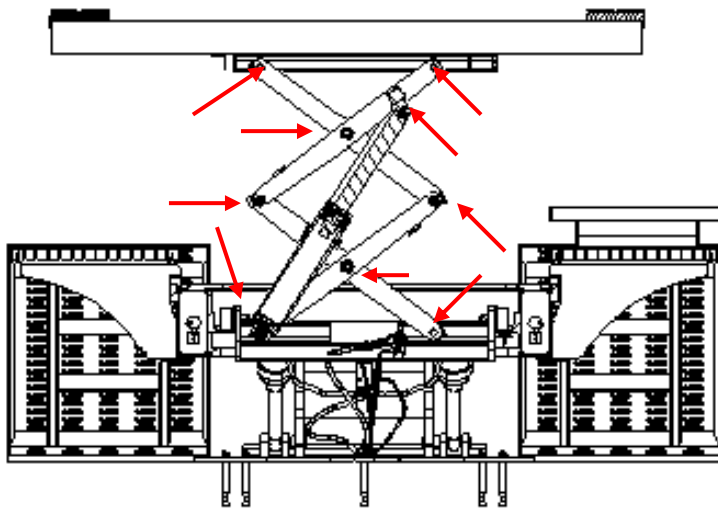
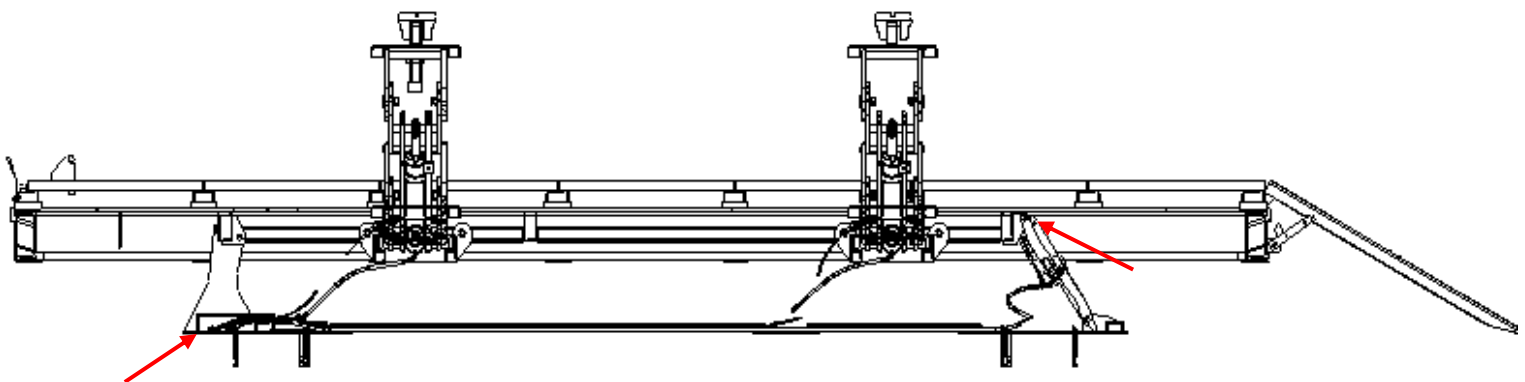
Contact your agent to get the complete list and availability.

**Maintenance :**

To insure the reliability and durability of your equipment, we recommend to complete following checkings regularly (at least once a yar) :

- The oil level of the power unit tank. During this operation, both lifting units have to be completely lowered.
- The condition of hydraulic and pneumatic hoses (possible leakages or scratchings).
- The condition of electric wires.
- The waterproofness and look of the rams.

- All connections of the bench, of the power unit, as well as of the possible options and accessories (hydraulic, pneumatic and electric).
- The look of the safety system notches of the 3 lifting units.
- The condition of the ball bearings.
- The condition of the safety stickers.
- The tightening of the fixing screws to the ground.
- The lubrication of mobile or orientable points:



- The condition of the runway decking plates .
- The bench levelness
- The overall look of the bench.

In case of trouble, it is imperative to achieve level checkings or repairs to maintain the conformity of the equipment utilization . The spare parts have to be agreed by the manufacturer.



**BEFORE ANY TECHNICAL OPERATION, IT IS IMPERATIVE TO PLACE THE BENCH IN HORIZONTAL POSITION AND TO LOCK IT ON ITS MECHANICAL SAFETY SYSTEM**

### Dysfunctions

| CAUSE OF THE DYSFUNCTION                                                      | CHECKING                                                                                                                                                                                                      | SOLUTION                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The control light does not light on.<br>No movement possible                  | <ul style="list-style-type: none"> <li>General energy supply</li> <li>General break switch( IG)</li> </ul>                                                                                                    | <ul style="list-style-type: none"> <li>Connect the energy supply to a receptacle</li> <li>Place the main switch in ON position</li> <li>Check the general energy supply of the board and of the workshop</li> </ul>                         |
| The control light lights on.<br>No movement possible                          | <ul style="list-style-type: none"> <li>Motor thermal break switch (C1)</li> <li>Motor contactor coil</li> </ul>                                                                                               | <ul style="list-style-type: none"> <li>Contact the After Sales Dept.</li> <li>Start C1 again.</li> </ul>                                                                                                                                    |
| The control light lights on.<br>Only the mobile lifting unit can be activated | <ul style="list-style-type: none"> <li>Inner lifting units in storage position (green LED lights on).</li> <li>Coil of the hydraulic selection electrovalve.</li> <li>Correct electric connection.</li> </ul> | <ul style="list-style-type: none"> <li>Place the inner lifting units in storage position. (do not hesitate to complete the operation again).</li> <li>Contact the After Sales Dept.</li> <li>Plug the electric connection again.</li> </ul> |
| No lowering operation possible                                                | <ul style="list-style-type: none"> <li>Compressed air supply</li> <li>Coil of the hydraulic discharge electrovalve</li> </ul>                                                                                 | <ul style="list-style-type: none"> <li>Connect the unit to a compressed air supply</li> <li>Check the pressure of the workshop network.</li> <li>Contact the After Sales Dept.</li> </ul>                                                   |