

## USER MANUAL

# ARTICULAR PILLAR JIB CRANE & SUSPENDED WITH SELF-SUPPORTING HUBS





# SUMMARY

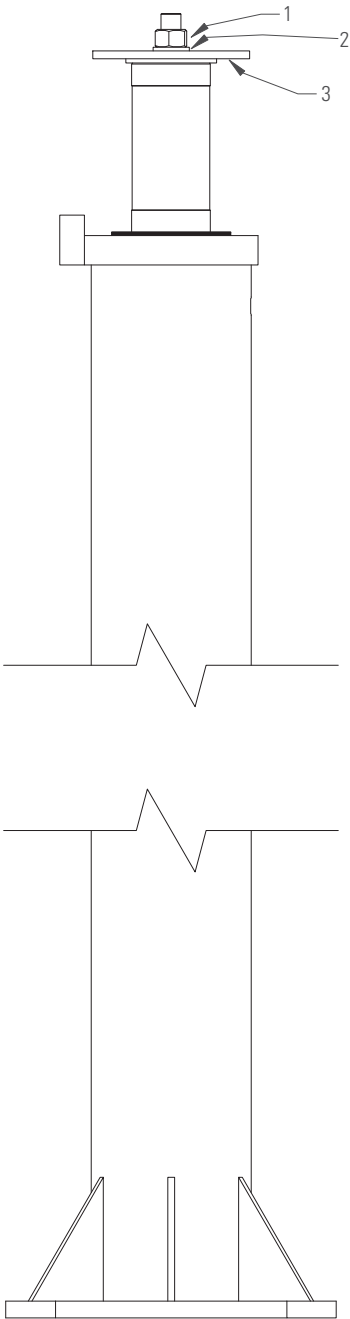
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- 1. Assembly instructions ..... p. 4
- 2. Mounting of the set ..... p. 6
- 3. Base plate for chemical anchors (option) ..... p. 8
- 4. What to do and what not to do ..... p. 12
- 5. Test under load of the jib cranes and of the gantry cranes ..... p. 14
- 6. Specifications ZSD-S ..... p. 16
- 7. Specifications ZSD-PS ..... p. 18

# ASSEMBLY INSTRUCTIONS

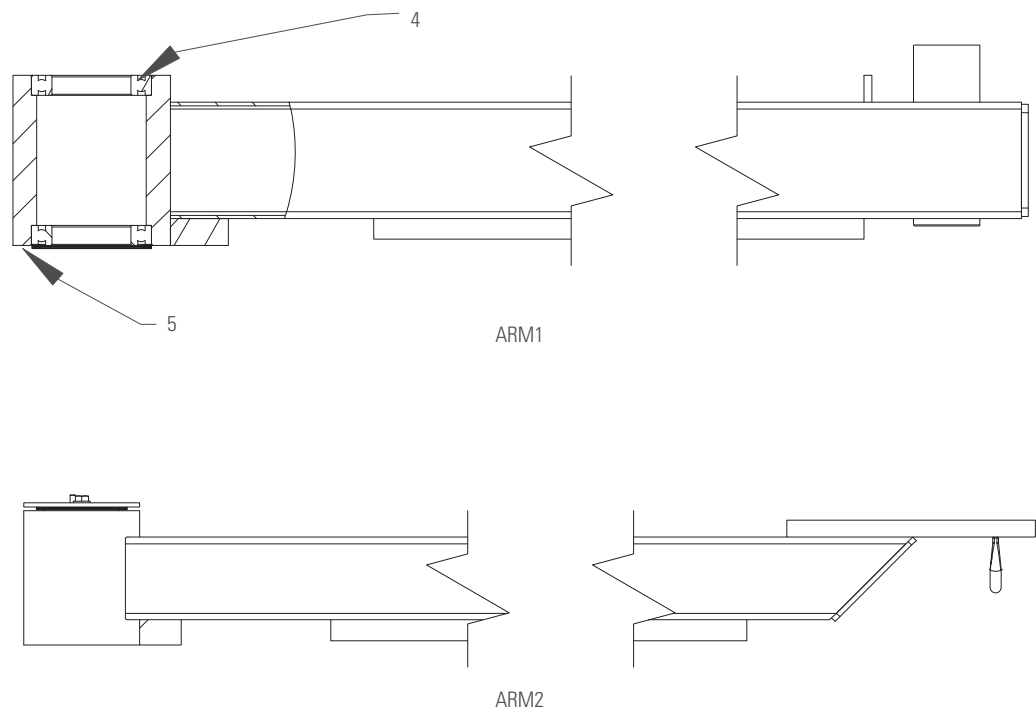
Your jib crane is supplied in 3 parts

The tubular column on which the parts 1, 2 and 3 are mounted.



**The 2 articulated arms.**

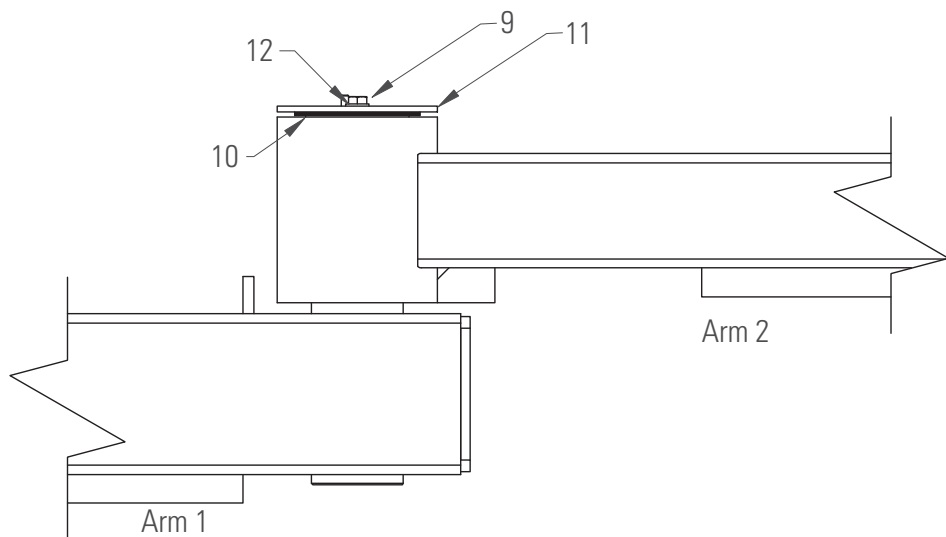
The parts 4 et 5 are mounted on the arm N°1.



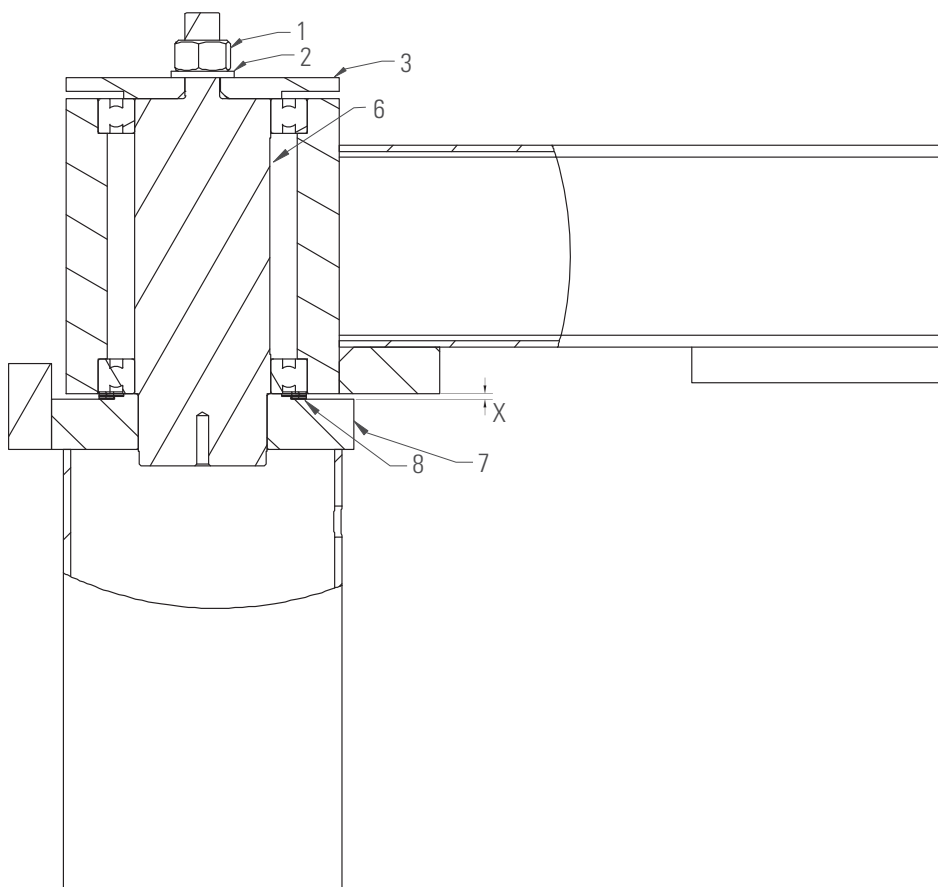
# MOUNTING OF THE SET

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1. Set up the articulated arm n°2 on the 9 of the arm n°1 by slowly putting it down as horizontal as possible.
2. Put the lock washers 10.
3. Place the end stop 11 and the nut 12.

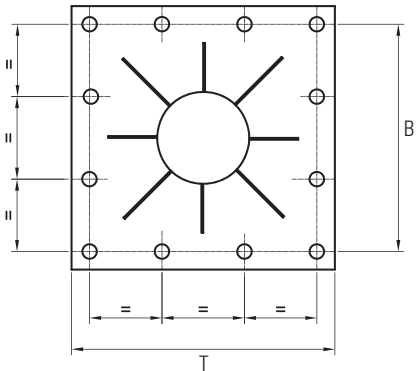
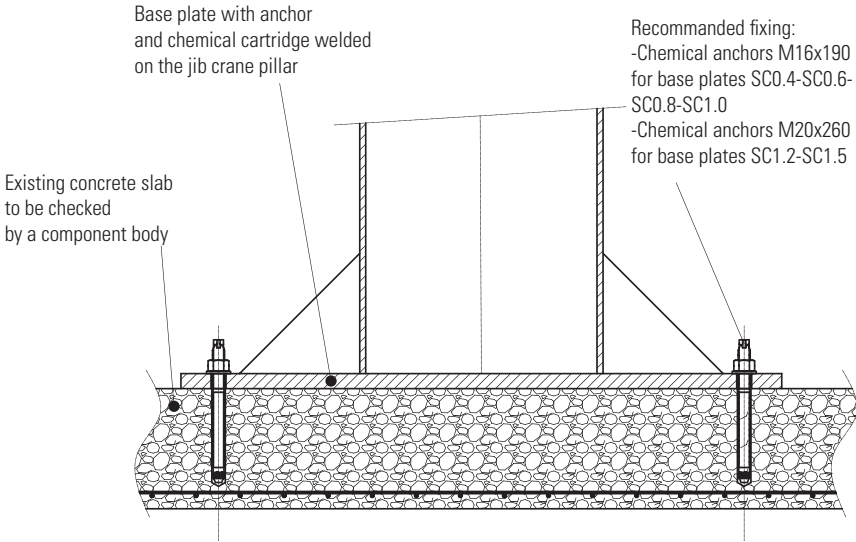


1. On the column, unscrew the nut **1** and remove the lock washer AZ **2** and the closure plate **3**.
2. Place the column on its foundation, checking the levelness of it, if necessary stalling under the seat plate. Tighten the nuts.
3. Set up the lock washers **8**, ensuring the good centering and stacking of them on the shoulder of the pillar's plate **7**.
4. Using a hoist, a crane, an overhead crane, an elevator, ... put the articulated arm on the column shaft **6** by putting it down slowly as horizontal as possible. Check that the washers **8** remain in place. The arm is at its place when the X dimension is about 4.5 mm.
5. Check the good slewing of the arm on its shaft. Put the parts **3** and **2** and screw the nut **1**. Set up your hoist at end of the arm and proceed with the electrical connection if possible.



**Your jib crane is ready for use and there is no particular maintenance on it.**

# SPECIFIC PROCEDURE FOR BASE PLATE WITH ANCHORS & CHEMICAL CARTRIDGES



Ø20 for anchors Ø16, base plates SC03 - SC04 - SC06 - SC08 - SC10  
Ø25 for anchors Ø20, base plates SC12 - SC15

| N°    | TxT           | Number of holes | Ø  | BxB           | Thick | CR           |
|-------|---------------|-----------------|----|---------------|-------|--------------|
| SC0.3 | 300 x 300     | 4               | 20 | 250 x 250     | 12    | 250 DaN.m    |
| SC0.4 | 400 x 400     | 8               | 20 | 350 x 350     | 15    | 1 000 DaN.m  |
| SC0.6 | 600 x 600     | 8               | 20 | 500 x 500     | 15    | 1 500 DaN.m  |
| SC0.8 | 800 x 800     | 12              | 20 | 700 x 700     | 20    | 3 800 DaN.m  |
| SC1.0 | 1 000 x 1 000 | 16              | 20 | 900 x 900     | 20    | 6 000 DaN.m  |
| SC1.2 | 1 200 x 1 200 | 16              | 25 | 1 100 x 1 100 | 20    | 8 000 DaN.m  |
| SC1.5 | 1 500 x 1 500 | 16              | 25 | 1 400 x 1 400 | 20    | 12 000 DaN.m |

This type of fixation is to be used with the biggest caution, and while the use of a concrete foundation mass is impossible. This solution imposes a concrete slab of sufficient thickness and quality, to be verified in accordance with the bending moments recommended in the general documentation.

**In any case, WE RELEASED OUR RESPONSABILITY as to the keeping of this type of fastening.**

These base plates are not dismountable from the jib crane table.

CR = Bending moment mentioned in the pillar jib crane table.

We join for information and as example the technical characteristics of WURTH anchors.

This mark/model is neither imposed nor contractual.



# ADHESIVE CAPSULE



ADHESIVE CAPSULE HVU2 WITH HAS (-E) OD FOR ANCHORING IN UNCRACKED AND CRACKED CONCRETE

Versions HAS-(E) 5.8 carbon steel version 5.8

## INSTALLATION DATA

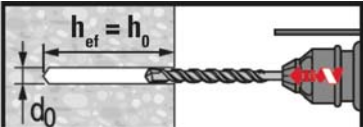
| Threaded bar diameter | Diameter hole diameter | Anchoring depth     | Thickness of the substrate | Tightening torque max.* | Centre distance mini | Distance to edge mini | Threaded bar length |
|-----------------------|------------------------|---------------------|----------------------------|-------------------------|----------------------|-----------------------|---------------------|
| $d_{nom} = d_f$ (mm)  | $d_0$ (mm)             | $h_{ef} = h_g$ (mm) | $h_{min}$ (mm)             | $T_{max}$ (N.m)         | $s_{min}$ (mm)       | $c_{min}$ (mm)        | mm                  |
| <b>M16</b>            | 16                     | 18                  | 125                        | 80                      | 75                   | 50                    | 190                 |
| <b>M20</b>            | 20                     | 22                  | 170                        | 150                     | 90                   | 55                    | 260                 |

\* : maximum tightening torque to avoid splitting during installation with  $s_{min}$  et  $c_{min}$

## OPERATING TEMPERATURE RANGE

| Temperature range            | Temperature of the material support | Max. temperature temperature in the the carrier material | Max. temperature temperature in the the carrier material | Material temperature substrate | Minimum setting time $t_{cure}$ |
|------------------------------|-------------------------------------|----------------------------------------------------------|----------------------------------------------------------|--------------------------------|---------------------------------|
| <b>Temperature range I</b>   | -40 °C à +40 °C                     | +24 °C                                                   | +40 °C                                                   | -10 °C à -6 °C                 | 5 hours                         |
|                              |                                     |                                                          |                                                          | -5 °C à -1 °C                  | 3 hours                         |
| <b>Temperature range II</b>  | -40 °C à +80 °C                     | +50 °C                                                   | +80 °C                                                   | 0 °C à 4 °C                    | 40 minutes                      |
|                              |                                     |                                                          |                                                          | 5 °C à 9 °C                    | 20 minutes                      |
| <b>Temperature range III</b> | -40 °C à +120 °C                    | +72 °C                                                   | +120 °C                                                  | 10 °C à 19 °C                  | 10 minutes                      |
|                              |                                     |                                                          |                                                          | 20 °C à 40 °C                  | 5 minutes                       |

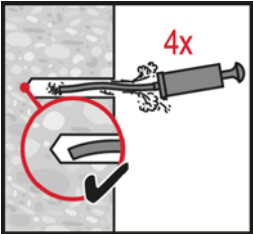
Hammer drilled hole



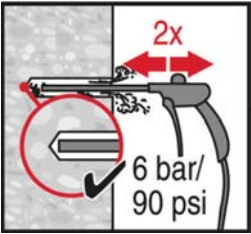
flooded holes (no sea water).

|     | Diameter<br>hole diameter | Anchoring<br>depth  |
|-----|---------------------------|---------------------|
|     | $d_0$ (mm)                | $h_{ef} = h_0$ (mm) |
| M16 | 18                        | 125                 |
| M20 | 22                        | 170                 |

Manual cleaning for hammer drilled hole

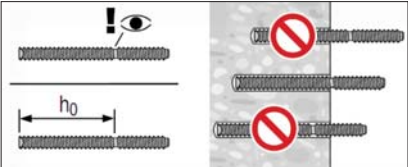


for drill hole diameters  $d_0 \leq 18$  mm  
and drill hole depths  $h_0 \leq 10$  d

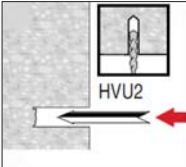


for all drill hole diameters  $d_0$   
and all drill hole depths  $h_0$

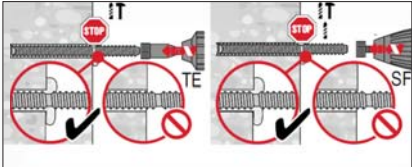
Setting the element



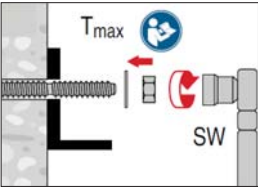
Check setting depth



Insert the foil capsule  
with the peak ahead to  
the back of the hole



Drive the anchor rod with the plugged tool into the  
hole

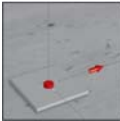


Loading the anchor after required  
curing time  $t_{cure}$

|     | Tightening<br>torque<br>max.* |
|-----|-------------------------------|
|     | $T_{max}$ (N.m)               |
| M16 | 80                            |
| M20 | 150                           |

PRE-CALCULATED VALUES I STATIC LOADS

|     | $h_{ef}$ (mm) | $h_{min}$ (mm) | Traction (kN)                |              |       | Shear (kN)                   |              |       |
|-----|---------------|----------------|------------------------------|--------------|-------|------------------------------|--------------|-------|
|     |               |                | Ultimate design strength NRd |              |       | Ultimate design strength VRd |              |       |
|     |               |                | HAS 5.8 (-F)                 | HAS 8.8 (-F) | HAS-R | HAS 5.8 (-F)                 | HAS 8.8 (-F) | HAS-R |
| M16 | 125           | 160            | 45,83                        | 45,83        | 45,83 | 32,88                        | 32,88        | 36,07 |
| M20 | 170           | 220            | 72,69                        | 72,69        | 72,69 | 44,88                        | 71,76        | 50,32 |



# WHAT TO DO AND WHAT NOT TO DO

***It is very important to read these instructions carefully to enable you to install, use and maintain your equipment and reduce any risks caused by its incorrect use.***

***Any use that is not compliant with the following is dangerous and the manufacturer refuses to accept any liability in such cases.***

***Please comply with the instructions given below.***

## WHAT TO DO

### GENERALLY

- Read and follow the instructions given in the introduction manual carefully, starting from initial commissioning. During repair or maintenance, use only «standard parts».
- Always keep the instructions manual and the user instructions near the equipment, available to the operator and the person in charge of maintenance.

### TRANSPORT / STORAGE

- Handle the equipment and its structure either using the devices provided for the purpose or in the original package.
- Store the equipment away from any harsh environmental conditions (dust, damp...). It must be cleaned and protected from corrosion (lubrication...)

### INSTALLATION / MAINTENANCE / INTERVENTIONS

- Have trained people who are electrically and mechanically competent deal with installation.
- Require absolute compliance with the safety rules (harnesses, clearance around working areas, cordoning off the area...)
- Ensure that the equipment attaching structure is rigid.
- Neutralize any sources of electric power.
- Keep strictly to the installation instructions mentioned in the equipment instructions manual.
- Connect directly the power supply cable to the power supply terminal of the electrical unit :
  - the cable must be assembled in accordance with the manual, greased and run in by several maneuvers without a load,
  - the line must be assembled in accordance with the manual, oiled and run in by several maneuvers without a load.
- Set out an inspection program and record all the maintenance work carried out on the equipment, and more particularly: hooks, sheave assemblies, chains or cables, brakes and travel end switches.
- Replace any suspicious or worn parts.

### AFTER EXTENDED STOPPAGE OR DURING A CHECK :

- Check the operation and adjustment of the safety devices (brake, travel ends, limiters...) in accordance with the instruction manual.
- Regularly check the condition of the chain or cable and of the hooks.
- If a deformation or any wear is observed, replace the parts.
- Keep the cable clean and greased at all times.
- Check that all of the assembly components are tight.
- Check the condition of the lifting cable component wires.
- Check that the chains are not twisted and are free of any damage.
- Check that the steel cables strands supporting the pushbutton box fulfil their functions. The pushbutton box conductor cable is not a handling cable.

***It is very important to read these instructions carefully to enable you to install, use and maintain your equipment and reduce any risks caused by its incorrect use.***  
***Any use that is not compliant with the following is dangerous and the manufacturer refuses to accept any liability in such cases.***  
***Please comply with the instructions given below.***

## WHAT NOT TO DO

### TRANSPORT / STORAGE

- Never move or lift the equipment of using the electrical cables.
- Never put the hoist down without using a suitable support to avoid damage to the components on the underside.

### INSTALLATION / MAINTENANCE / INTERVENTIONS

- Never modify the equipment without suitable study and the authorization of the manufacturer.
- Never change the values and settings of the safety devices outside the limits provided for in the manual or without the agreement of the manufacturer.
- Never bypass isolating switches, electrical switches, prevention or limiting equipment.

### IN USE

- Never transport a load without keeping the personnel at a distance. Never have the book, loaded or empty, move above the personnel.
- Never let anybody unqualified use the equipment.
- Never lift a load exceeding the maximum operating load indicated on the equipment. Shock or accidental catching of the load being handled with the environment can generate overloads.
- Never remove the tab from the hook.
- Never block, adjust or remove switches or end of travel devices to go higher or lower than permitted by them.
- Never use the equipment to pull away, un-jam or pull sideways.
- Never use the equipment to transport people.
- Never touch any moving parts.
- Never use equipment that is in poor condition (wear, deformation...)
- Never use defective spare parts or whose origin is not fully known.
- Never swing the load intentionally.
- Do not cause abrupt movement on the equipment.
- Never use the mechanical stops as a means of repetitive stoppage.
- Never use the lifting chain or cable as a sling.
- Never sling anything from the nose of the hook (risk of damage to hook and falling of load)
- Never use the hook when cantilevered.
- Never twist the loading chains. (turn-around of the sheave...).
- Never use the electric cables to move the equipment around.
- Never leave a load hanging.
- Never use the equipment as a ground reference for welding.
- Never use the equipment for any purpose or in any place for which it was designed.
- Never use the safety devices as a means of measuring the carried weight.
- Never use the controls pointlessly (avoid keying on them). This can cause overheating or even the deterioration of the equipment.
- Never pull a load cross-wise or bring the equipment vertically above the load before lifting it.
- Never use the equipment with an electric power supply that is different from the one recommended (under or over voltage, absence of a phase...)

# TEST UNDER LOAD OF THE JIB CRANES AND OF THE GANTRY CRANES

*To ensure the good performance of the equipment, and in the absence of specific legislation, the following is recommended by the manufacturer in terms of dynamic and static load tests on standard devices.*

*Any other regulation, whether related to specific conditions of a country or a particular use should be specifications duly approved by the manufacturer.*

## DYNAMIC TESTS

For the dynamic tests will be added an overload of 10% at rated load, whether electric or manual lifting.

The tests are therefore performed on all movements (lifting, travelling, translation, rotation etc ...) It will not be necessary to lift the load to its maximum height but it is possible to do it and no time is imposed.

One move of each movement is necessary and sufficient.

### Interpretation of dynamic tests :

During these tests the hoist + trolley must remain stable. Ensure no visible distortion too important.

Measure the height under beam or over beam empty before applying the load ( Load at the end of the arm if it is a jib crane or at the center if it is a gantry crane ) and remeasure under dynamic load.

Do the ratio to recalculate the measured deflection under dynamic load by dividing by 1.1 in order to interpret **Deflection under nominal load**, this deflection is directly proportional to the load.

### **Only the deflection under nominal load is interpretable to the exclusion of any other!**

For pillar jib cranes, deflection observed (**interpreted under nominal load**) must not exceed  $1/100^{\text{th}}$  of the span and  $1/200^{\text{th}}$  of the sum Height + Span.

For wall jib cranes, deflection should not exceed  $1/200^{\text{th}}$  of the span (it will not take into account the possible deformation of the post which is supposedly of sufficient size and have been calculated by the user).

For gantry cranes, deflection should not exceed  $1/500^{\text{th}}$  of the span.

If the dynamic tests give satisfaction, there will be static tests.

*To ensure the good performance of the equipment, and in the absence of specific legislation, the following is recommended by the manufacturer in terms of dynamic and static load tests on standard devices.*

*Any other regulation, whether related to specific conditions of a country or a particular use should be specifications duly approved by the manufacturer.*

## STATIC TESTS

Static testing has for single purpose to ensure the strength of the assembly and verify the absence of permanent deformation or residual.

**No deflection measurement shall be interpreted during these tests if it is only to verify the absence of permanent deformation**

### **Requirements during the static tests :**

For static tests, it will be an overload applied **in more than 25% of the rated load**, whether it be a manual or electric lifting.

These tests will be performed only on the lifting arms of the bracket in the center position (end of the load arm in the case of jib crane and to the center of a gantry).

**It is forbidden to lift the load increased by 25% with the device** but additional weights are added to the dynamic load. In the case of a wall jib, the static test will be done in the sense that less strains the building structure.

The duration of this test shall not exceed 30 min.

### **Interpretation of static tests:**

If after static tests, no permanent or residual deformation is found, the device can be operated.

As defined in the European Machinery Directive, any calculation notes will not be issued unless requested to ordering and duly accepted by manufacturer, as well as the detailed plans, schedules etc. .... which are the subject of the information folder and as such are confidential documents.

### **Concerning electric chain hoists:**

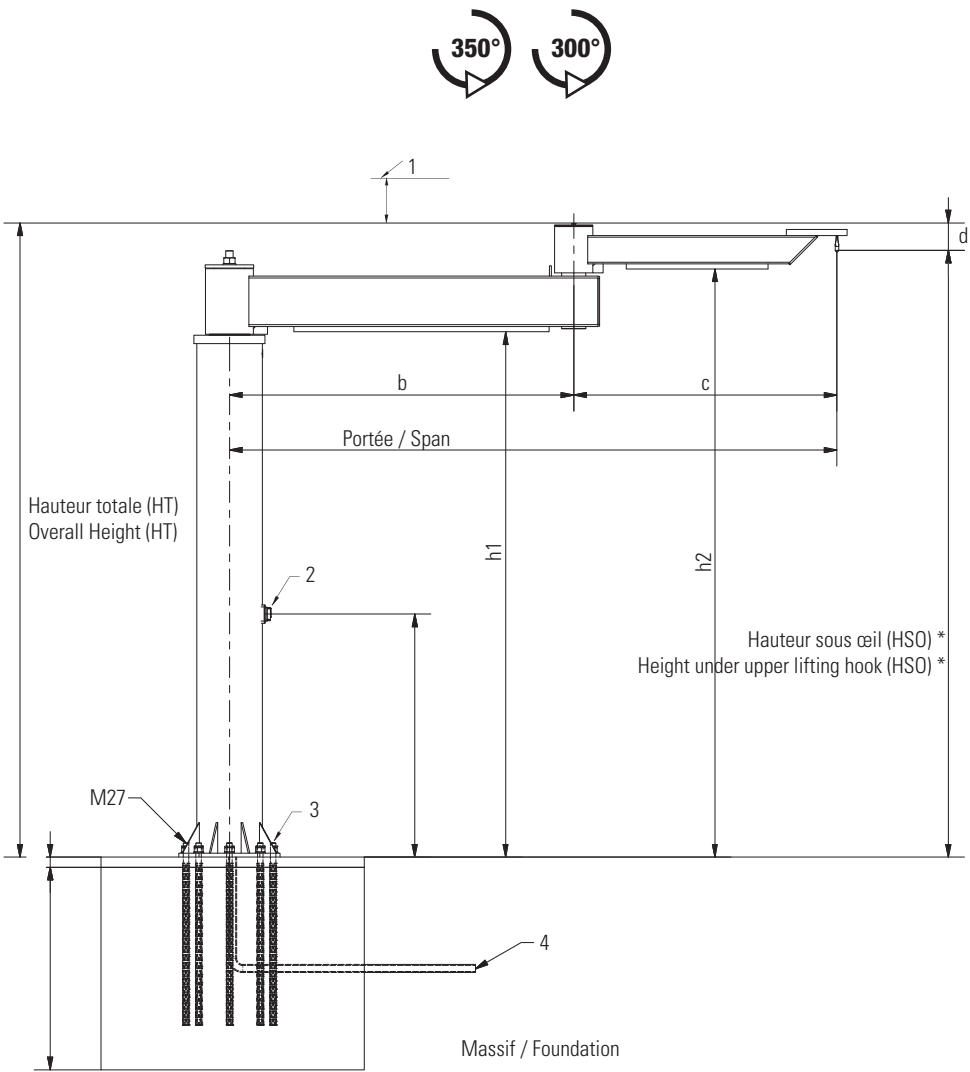
It is reminded that these devices are equipped with **torque limiters** and not **load limiters**.

Also for security reasons, their setting far exceeds the trigger threshold 110% of the rated load.

It is quite acceptable that the torque limiters can be «*calibrated*» to 125 or even 130% of rated load.

This measure aimed to anticipate wear slip friction system providing torque limit and prevent and to the risk of «*slippage*» of the load.

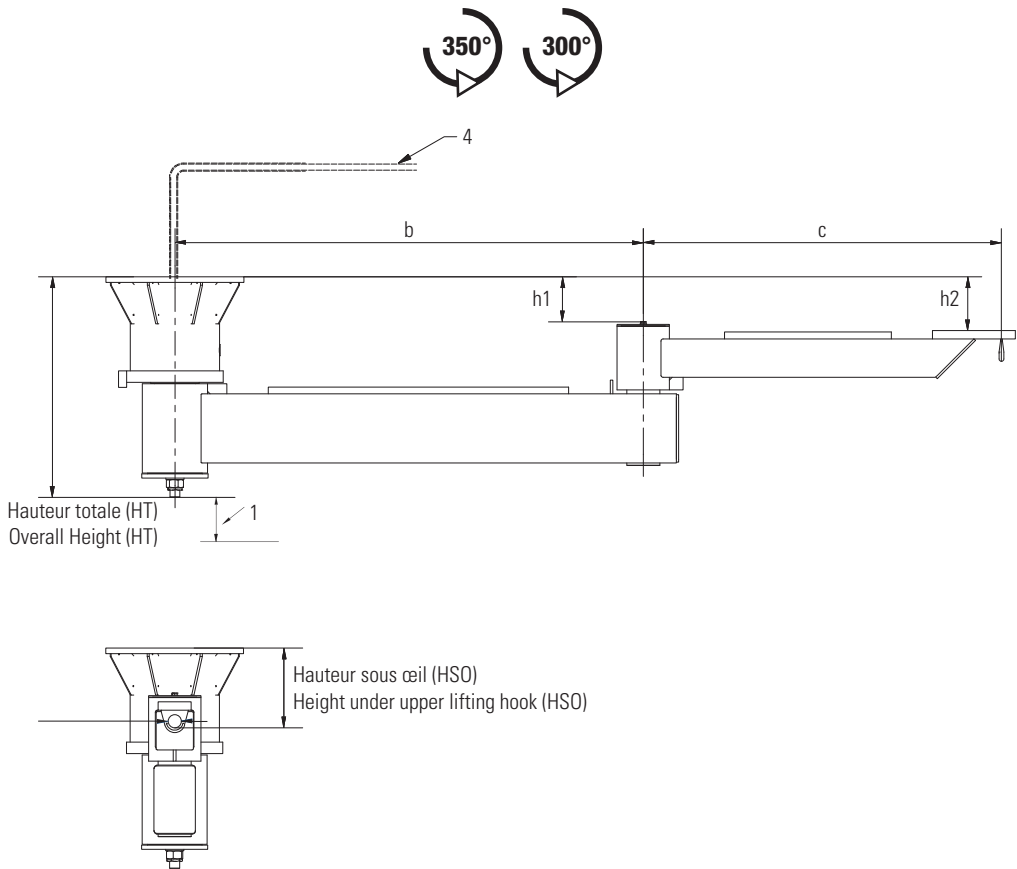
# SPECIFICATIONS ZSD-S



|   |                                                                                 |
|---|---------------------------------------------------------------------------------|
| 1 | Jeu nécessaire au montage = 290 mm<br>Necessary clearance for assembly = 290 mm |
| 2 | Interrupteur cadenassable (option)<br>Lockable main switch (option)             |
| 3 | Semelle n°<br>Base plate n°                                                     |
| 4 | Alimentation électrique (facultatif)<br>Sheath for supply cable (optional)      |

| CMU           | Portée | Hauteur sous rail HSO (1)               | Hauteur Totale (HT) | b    | c    | h1   | h2   | d   | Semelle standard    | Massif     | Semelle à cheville (2)   | Poids total  | Poids bras 1 | Poids bras 2 | Poids fût     | Poids pour 10 m de HSF supp       | Poids supp. semelle à cheville         | Couple de Renversement |
|---------------|--------|-----------------------------------------|---------------------|------|------|------|------|-----|---------------------|------------|--------------------------|--------------|--------------|--------------|---------------|-----------------------------------|----------------------------------------|------------------------|
| Max. capacity | Span   | Height under upper lifting hook HSO (1) | Overall Height (HT) |      |      |      |      |     | Standard Base plate | Foundation | Spiltable base plate (2) | Total weight | Weight arm 1 | Weight arm 2 | Pillar weight | Additional weight for HSF + 10 cm | Additional weight Spiltable base plate | Maximum moment         |
| kg            | m      | m                                       | m                   | mm   | mm   | mm   | mm   |     | N°                  | m          | N°                       | Kg           | Kg           |              | Kg            | Kg                                | Kg                                     | DaNm                   |
| 50<br>(30)    | 2      | 3                                       | 3120                | 1200 | 800  | 2740 | 2920 | 120 | 4                   | 0,7        | SC04                     | 191          | 59           | 22           | 110           | 3                                 | -8                                     | 241                    |
|               | 2,5    | 3                                       | 3120                | 1450 | 1050 | 2740 | 2920 | 120 | 4                   | 0,75       | SC04                     | 205          | 67           | 28           | 110           | 3                                 | -8                                     | 317                    |
|               | 3      | 3                                       | 3120                | 1700 | 1300 | 2740 | 2920 | 120 | 4                   | 0,8        | SC04                     | 220          | 76           | 34           | 110           | 3                                 | -8                                     | 400                    |
|               | 3,5    | 3                                       | 3120                | 1950 | 1550 | 2740 | 2920 | 120 | 4                   | 0,85       | SC04                     | 234          | 84           | 40           | 110           | 3                                 | -8                                     | 489                    |
|               | 4      | 3                                       | 3120                | 2200 | 1800 | 2740 | 2920 | 120 | 4                   | 0,9        | SC04                     | 248          | 93           | 45           | 110           | 3                                 | -8                                     | 582                    |
|               | 4,5    | 3                                       | 3120                | 2450 | 2050 | 2740 | 2920 | 120 | 4                   | 0,95       | SC04                     | 262          | 101          | 51           | 110           | 3                                 | -8                                     | 684                    |
|               | 5      | 3                                       | 3120                | 2700 | 2300 | 2740 | 2920 | 120 | 4                   | 1          | SC04                     | 276          | 109          | 57           | 110           | 3                                 | -8                                     | 792                    |
| 80<br>(50)    | 2      | 3                                       | 3120                | 1200 | 800  | 2740 | 2920 | 120 | 4                   | 0,75       | SC04                     | 191          | 59           | 22           | 110           | 3                                 | -8                                     | 307                    |
|               | 2,5    | 3                                       | 3120                | 1450 | 1050 | 2740 | 2920 | 120 | 4                   | 0,8        | SC04                     | 205          | 67           | 28           | 110           | 3                                 | -8                                     | 399                    |
|               | 3      | 3                                       | 3120                | 1700 | 1300 | 2740 | 2920 | 120 | 4                   | 0,85       | SC04                     | 220          | 76           | 34           | 110           | 3                                 | -8                                     | 499                    |
|               | 3,5    | 3                                       | 3120                | 1950 | 1550 | 2740 | 2920 | 120 | 4                   | 0,95       | SC04                     | 234          | 84           | 40           | 110           | 3                                 | -8                                     | 604                    |
|               | 4      | 3                                       | 3120                | 2200 | 1800 | 2740 | 2920 | 120 | 4                   | 1          | SC04                     | 248          | 93           | 45           | 110           | 3                                 | -8                                     | 714                    |
|               | 4,5    | 3                                       | 3140                | 2450 | 2050 | 2580 | 2890 | 140 | 5                   | 1,1        | SC06                     | 568          | 207          | 85           | 276           | 6                                 | 7                                      | 1080                   |
|               | 5      | 3                                       | 3140                | 2700 | 2300 | 2580 | 2890 | 140 | 5                   | 1,2        | SC06                     | 591          | 222          | 93           | 276           | 6                                 | 7                                      | 1248                   |
| 125<br>(50)   | 2      | 3                                       | 3120                | 1200 | 800  | 2740 | 2920 | 120 | 4                   | 0,85       | SC04                     | 191          | 59           | 22           | 110           | 3                                 | -8                                     | 446                    |
|               | 2,5    | 3                                       | 3120                | 1450 | 1050 | 2740 | 2920 | 120 | 4                   | 0,9        | SC04                     | 205          | 67           | 28           | 110           | 3                                 | -8                                     | 573                    |
|               | 3      | 3                                       | 3120                | 1700 | 1300 | 2740 | 2920 | 120 | 4                   | 1          | SC04                     | 220          | 76           | 34           | 110           | 3                                 | -8                                     | 707                    |
|               | 3,5    | 3                                       | 3140                | 1950 | 1550 | 2580 | 2890 | 140 | 5                   | 1,1        | SC06                     | 521          | 177          | 68           | 276           | 6                                 | 7                                      | 1015                   |
|               | 4      | 3                                       | 3140                | 2200 | 1800 | 2580 | 2890 | 140 | 5                   | 1,15       | SC06                     | 545          | 192          | 77           | 276           | 6                                 | 7                                      | 1200                   |
|               | 4,5    | 3                                       | 3140                | 2450 | 2050 | 2580 | 2890 | 140 | 5                   | 1,2        | SC06                     | 568          | 207          | 85           | 276           | 6                                 | 7                                      | 1393                   |
|               | 5      | 3                                       | 3140                | 2700 | 2300 | 2580 | 2890 | 140 | 5                   | 1,3        | SC08                     | 591          | 222          | 93           | 276           | 6                                 | 78                                     | 1596                   |
| 250<br>(50)   | 2      | 3                                       | 3120                | 1200 | 800  | 2740 | 2920 | 120 | 4                   | 1          | SC04                     | 191          | 59           | 22           | 110           | 3                                 | -8                                     | 721                    |
|               | 2,5    | 3                                       | 3140                | 1450 | 1050 | 2580 | 2890 | 140 | 5                   | 1,1        | SC06                     | 474          | 147          | 51           | 276           | 6                                 | 7                                      | 1020                   |
|               | 3      | 3                                       | 3140                | 1700 | 1300 | 2580 | 2890 | 140 | 5                   | 1,2        | SC06                     | 498          | 162          | 60           | 276           | 6                                 | 7                                      | 1254                   |
|               | 3,5    | 3                                       | 3140                | 1950 | 1550 | 2580 | 2890 | 140 | 5                   | 1,25       | SC06                     | 521          | 177          | 68           | 276           | 6                                 | 7                                      | 1496                   |
|               | 4      | 3                                       | 3140                | 2200 | 1800 | 2580 | 2890 | 140 | 5                   | 1,3        | SC08                     | 545          | 192          | 77           | 276           | 6                                 | 78                                     | 1750                   |
| 500<br>(50)   | 2      | 3                                       | 3140                | 1200 | 800  | 2580 | 2890 | 140 | 5                   | 1,2        | SC06                     | 451          | 132          | 43           | 276           | 6                                 | 7                                      | 1348                   |
|               | 2,5    | 3                                       | 3140                | 1450 | 1050 | 2580 | 2890 | 140 | 5                   | 1,3        | SC08                     | 474          | 147          | 51           | 276           | 6                                 | 78                                     | 1708                   |
|               | 3      | 3                                       | 3140                | 1700 | 1300 | 2580 | 2890 | 140 | 5                   | 1,4        | SC08                     | 498          | 162          | 60           | 276           | 6                                 | 78                                     | 2079                   |
| 1000<br>(100) | 2      | 3                                       | 3140                | 1200 | 800  | 2580 | 2890 | 140 | 5                   | 1,5        | SC08                     | 451          | 132          | 43           | 276           | 6                                 | 78                                     | 2548                   |

# SPECIFICATIONS ZSD-PS



|   |                                                                                 |
|---|---------------------------------------------------------------------------------|
| 1 | Jeu nécessaire au montage = 420 mm<br>Necessary clearance for assembly = 420 mm |
| 2 | Interrupteur cadenassable (option)<br>Lockable main switch (option)             |
| 3 | Semelle n°<br>Base plate n°                                                     |
| 4 | Alimentation électrique (facultatif)<br>Sheath for supply cable (optional)      |

| CMU           | Portée | Hauteur sous rail HSO (1)               | Hauteur Totale (HT) |      |      |     |     | Semelle standard    | Semelle à cheville (2)    | Poids total  | Poids bras 1 | Poids bras 2 | Poids fût     | Poids pour 10 cm de HSF supp      | Poids supp. semelle à cheville          | Couple de Renversement |
|---------------|--------|-----------------------------------------|---------------------|------|------|-----|-----|---------------------|---------------------------|--------------|--------------|--------------|---------------|-----------------------------------|-----------------------------------------|------------------------|
| Max. capacity | Span   | Height under upper lifting hook HSO (1) | Overall Height (HT) | b    | c    | h1  | h2  | Standard Base plate | Spilttable base plate (2) | Total weight | Weight arm 1 | Weight arm 2 | Pillar weight | Additional weight for HSF + 10 cm | Additional weight Spilttable base plate | Maximum moment         |
| kg            | m      | m                                       | m                   | mm   | mm   | mm  | mm  | N°                  | N°                        | Kg           | Kg           |              | Kg            | Kg                                | Kg                                      | DalM                   |
| 50<br>(30)    | 2      | 205                                     | 524                 | 1200 | 800  | 101 | 131 | 4                   | SC04                      | 136          | 59           | 22           | 55            | 3                                 | -8                                      | 241                    |
|               | 2,5    | 205                                     | 524                 | 1450 | 1050 | 101 | 131 | 4                   | SC04                      | 150          | 67           | 28           | 55            | 3                                 | -8                                      | 317                    |
|               | 3      | 205                                     | 524                 | 1700 | 1300 | 101 | 131 | 4                   | SC04                      | 165          | 76           | 34           | 55            | 3                                 | -8                                      | 400                    |
|               | 3,5    | 205                                     | 524                 | 1950 | 1550 | 101 | 131 | 4                   | SC04                      | 179          | 84           | 40           | 55            | 3                                 | -8                                      | 489                    |
|               | 4      | 205                                     | 524                 | 2200 | 1800 | 101 | 131 | 4                   | SC04                      | 193          | 93           | 45           | 55            | 3                                 | -8                                      | 582                    |
|               | 4,5    | 205                                     | 524                 | 2450 | 2050 | 101 | 131 | 4                   | SC04                      | 207          | 101          | 51           | 55            | 3                                 | -8                                      | 684                    |
|               | 5      | 205                                     | 524                 | 2700 | 2300 | 101 | 131 | 4                   | SC04                      | 221          | 109          | 57           | 55            | 3                                 | -8                                      | 792                    |
| 80<br>(50)    | 2      | 205                                     | 524                 | 1200 | 800  | 101 | 131 | 4                   | SC04                      | 136          | 59           | 22           | 55            | 3                                 | -8                                      | 307                    |
|               | 2,5    | 205                                     | 524                 | 1450 | 1050 | 101 | 131 | 4                   | SC04                      | 150          | 67           | 28           | 55            | 3                                 | -8                                      | 399                    |
|               | 3      | 205                                     | 524                 | 1700 | 1300 | 101 | 131 | 4                   | SC04                      | 165          | 76           | 34           | 55            | 3                                 | -8                                      | 499                    |
|               | 3,5    | 205                                     | 524                 | 1950 | 1550 | 101 | 131 | 4                   | SC04                      | 179          | 84           | 40           | 55            | 3                                 | -8                                      | 604                    |
|               | 4      | 205                                     | 524                 | 2200 | 1800 | 101 | 131 | 4                   | SC04                      | 193          | 93           | 45           | 55            | 3                                 | -8                                      | 714                    |
|               | 4,5    | 289                                     | 800                 | 2450 | 2050 | 101 | 131 | 5                   | SC06                      | 429          | 207          | 85           | 137           | 6                                 | 7                                       | 1080                   |
|               | 5      | 289                                     | 800                 | 2700 | 2300 | 101 | 131 | 5                   | SC06                      | 452          | 222          | 93           | 137           | 6                                 | 7                                       | 1248                   |
| 125<br>(50)   | 2      | 205                                     | 524                 | 1200 | 800  | 101 | 131 | 4                   | SC04                      | 136          | 59           | 22           | 55            | 3                                 | -8                                      | 446                    |
|               | 2,5    | 205                                     | 524                 | 1450 | 1050 | 101 | 131 | 4                   | SC04                      | 150          | 67           | 28           | 55            | 3                                 | -8                                      | 573                    |
|               | 3      | 205                                     | 524                 | 1700 | 1300 | 101 | 131 | 4                   | SC04                      | 165          | 76           | 34           | 55            | 3                                 | -8                                      | 707                    |
|               | 3,5    | 289                                     | 800                 | 1950 | 1550 | 165 | 195 | 5                   | SC06                      | 382          | 177          | 68           | 137           | 6                                 | 7                                       | 1015                   |
|               | 4      | 289                                     | 800                 | 2200 | 1800 | 165 | 195 | 5                   | SC06                      | 406          | 192          | 77           | 137           | 6                                 | 7                                       | 1200                   |
|               | 4,5    | 289                                     | 800                 | 2450 | 2050 | 165 | 195 | 5                   | SC06                      | 429          | 207          | 85           | 137           | 6                                 | 7                                       | 1393                   |
|               | 5      | 289                                     | 800                 | 2700 | 2300 | 165 | 195 | 5                   | SC08                      | 452          | 222          | 93           | 137           | 6                                 | 78                                      | 1596                   |
| 250<br>(50)   | 2      | 205                                     | 524                 | 1200 | 800  | 101 | 131 | 4                   | SC04                      | 136          | 59           | 22           | 55            | 3                                 | -8                                      | 721                    |
|               | 2,5    | 289                                     | 800                 | 1450 | 1050 | 165 | 195 | 5                   | SC06                      | 335          | 147          | 51           | 137           | 6                                 | 7                                       | 1020                   |
|               | 3      | 289                                     | 800                 | 1700 | 1300 | 165 | 195 | 5                   | SC06                      | 359          | 162          | 60           | 137           | 6                                 | 7                                       | 1254                   |
|               | 3,5    | 289                                     | 800                 | 1950 | 1550 | 165 | 195 | 5                   | SC06                      | 382          | 177          | 68           | 137           | 6                                 | 7                                       | 1496                   |
|               | 4      | 289                                     | 800                 | 2200 | 1800 | 165 | 195 | 5                   | SC08                      | 406          | 192          | 77           | 137           | 6                                 | 78                                      | 1750                   |
| 500<br>(50)   | 2      | 289                                     | 800                 | 1200 | 800  | 165 | 195 | 5                   | SC06                      | 312          | 132          | 43           | 137           | 6                                 | 7                                       | 1348                   |
|               | 2,5    | 289                                     | 800                 | 1450 | 1050 | 165 | 195 | 5                   | SC08                      | 335          | 147          | 51           | 137           | 6                                 | 78                                      | 1708                   |
|               | 3      | 289                                     | 800                 | 1700 | 1300 | 165 | 195 | 5                   | SC08                      | 359          | 162          | 60           | 137           | 6                                 | 78                                      | 2079                   |
| 1000<br>(100) | 2      | 289                                     | 800                 | 1200 | 800  | 165 | 195 | 5                   | SC08                      | 312          | 132          | 43           | 137           | 6                                 | 78                                      | 2548                   |

