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INSTALLATION DOCUMENT – INSTALLING BATEC ON FOLDING-FRAME CHAIR

PARTS:

- BATEC
- BATEC DOCKING-BAR
- BRACKETS
- BRACKET CLAMPS
- CLAMPS

LIST OF TOOLS:

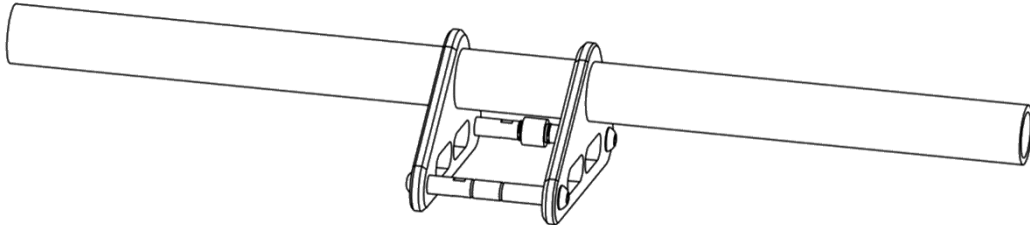
- TORQUE WRENCH
- 4 mm AND 5 mm ALLEN WRENCHES
- PIPE CUTTER
- BATEC LEVEL
- TAPE MEASURE

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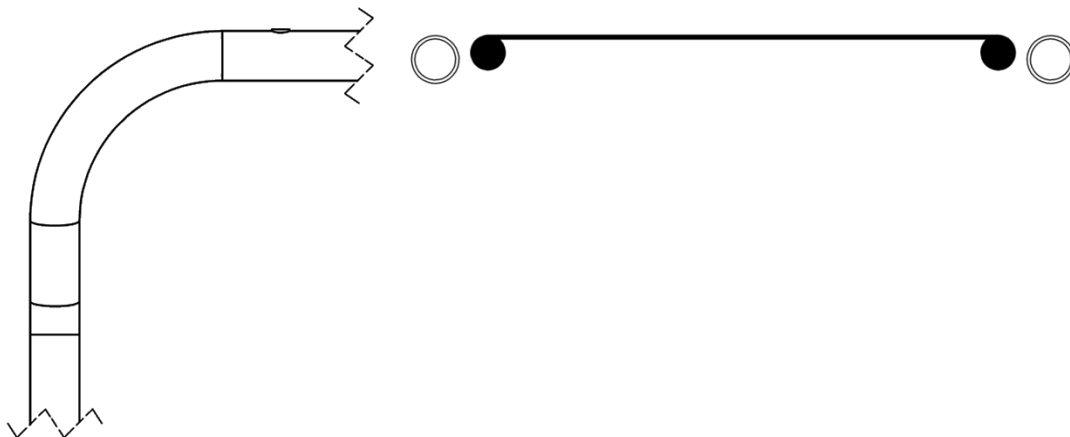
STEP 1 – SELECTING MATERIALS

BATEC DOCKING-BAR - ref. 53.04.01

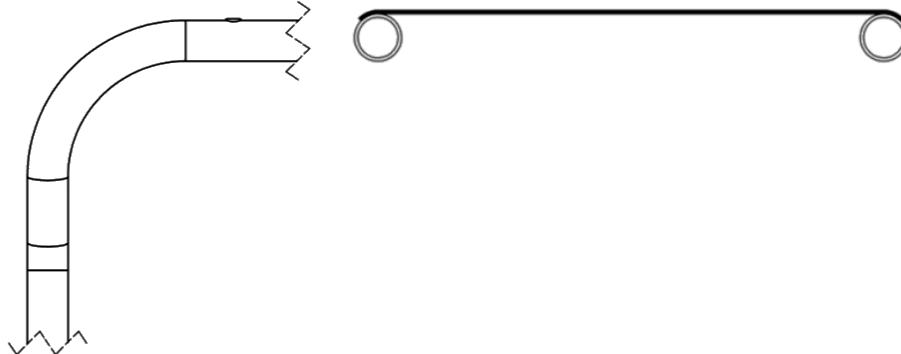


SELECT THE FOLDING-FRAME BRACKETS - D1 CNC - ref. 53.01.11

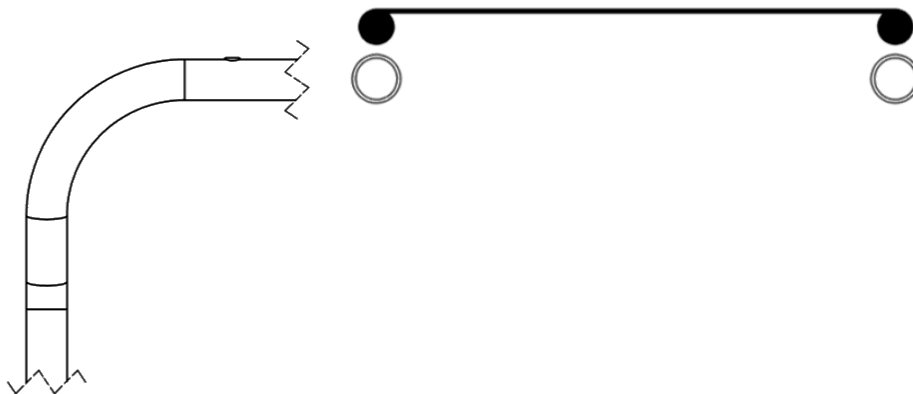
- FOR OPEN-FRAME WHEELCHAIRS WITH THE SEAT AT FRAME LEVEL



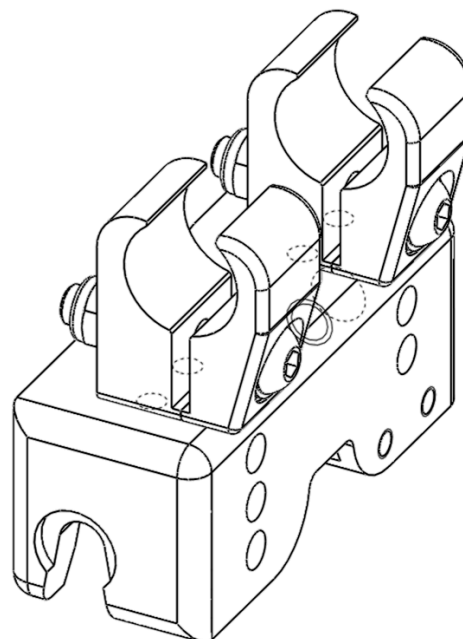
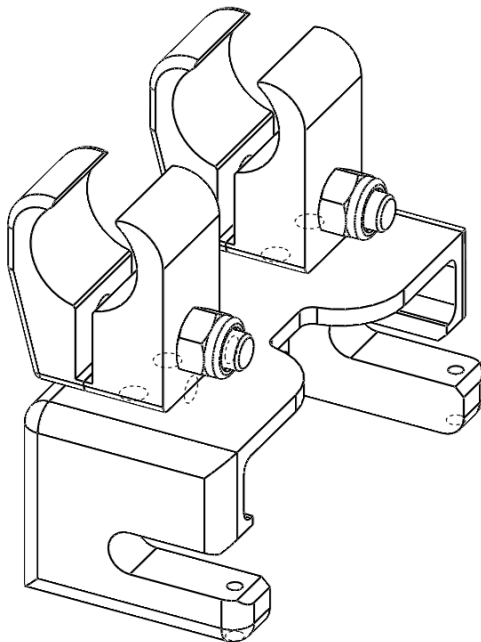
- **FOR OPEN-FRAME WHEELCHAIRS WITH THE SEAT SCREWED TO FRAME**



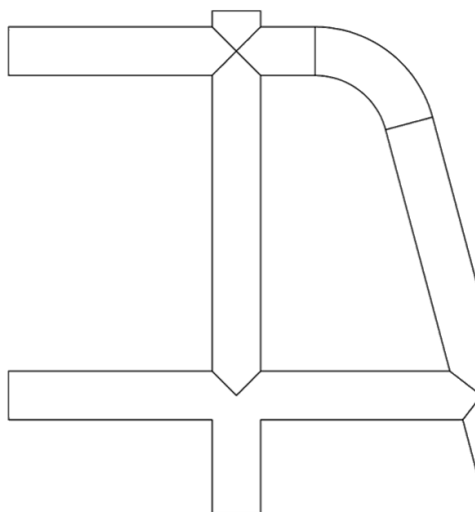
- **FOR OPEN-FRAME WHEELCHAIR WITH SEAT ABOVE THE FRAME**



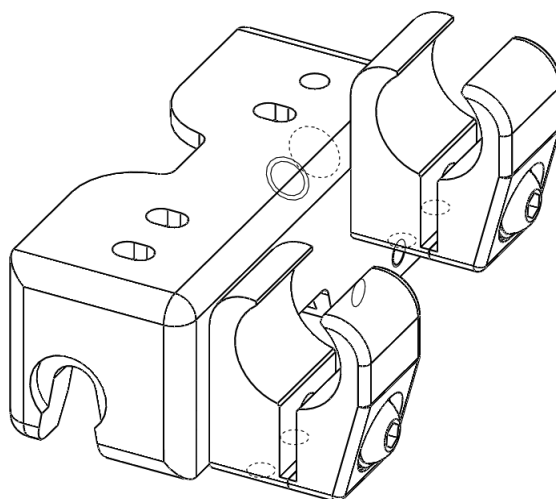
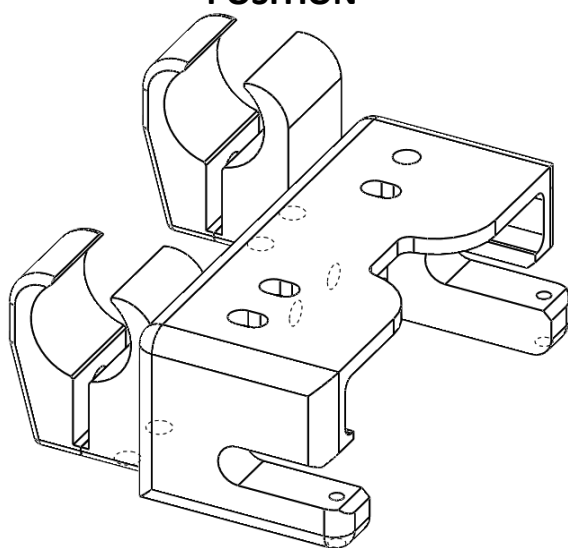
USE FOLDING-FRAME BRACKET - D1 CNC - ref. 53.01.11, IN STANDARD POSITION



○ **FOR 90° FRAME**



USE FOLDING-FRAME BRACKET - D1 CNC – ref. 53.01.11, IN 90° POSITION



WARNING! – BRACKET FOR ALLUMINIUM FRAME.

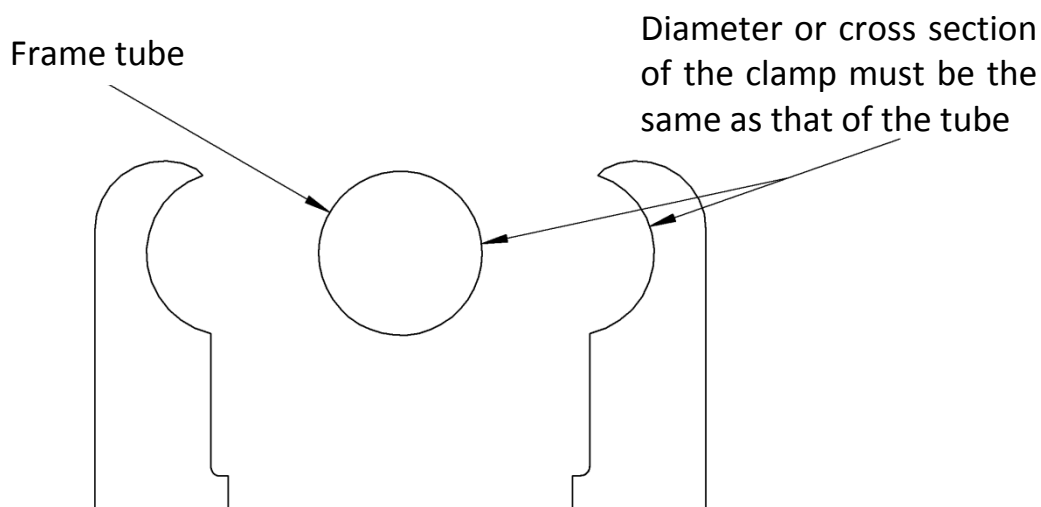
If using the **TERMINAL D1 CNC** in **STANDARD POSITION** the front axle of BATEC DOCKING-BAR is **below 33 cm** from the ground, you can mount the **TERMINAL D1 CNC** in **90° POSITION** to gain height.

STEP 2 – SELECTING CLAMPS

Select the right **CLAMPS** for the diameter and shape of the wheelchair frame tube.

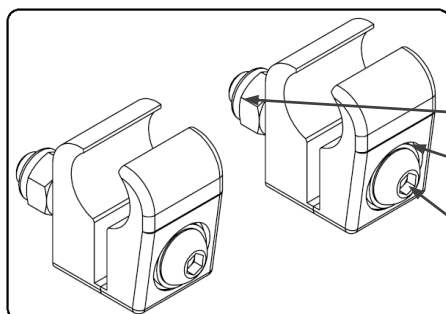
See the **BATEC COMPATIBILITY TABLE**.

Make sure the diameter and shape of the frame tube and the **CLAMPS** are the same.



TYPES OF CLAMPS FOR FOLDING-FRAME WHEELCHAIRS

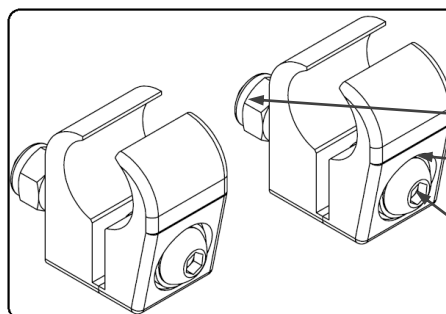
• STANDARD CLAMPS FOR ROUND TUBE



D2 N19

M8 DIN 985
M8 DIN 125
M8x50 DIN 7380

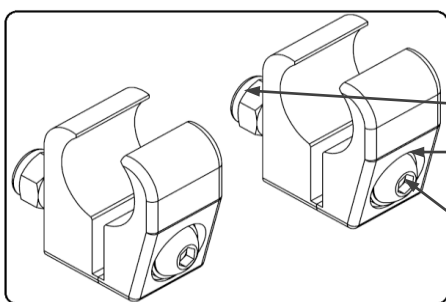
ref 53.02.40



D2 N22

M8 DIN 985
M8 DIN 125
M8x50 DIN 7380

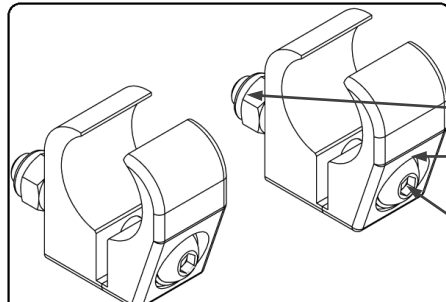
ref 53.02.41



D2 N25

M8 DIN 985
M8 DIN 125
M8x50 DIN 7380

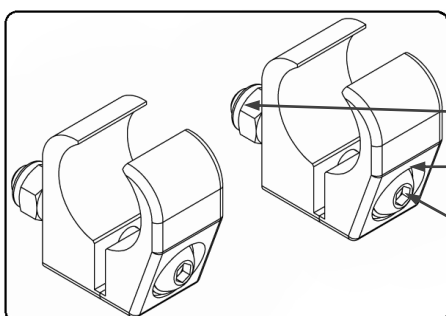
ref 53.02.42



D2 N28.8

M8 DIN 985
M8 DIN 125
M8x55 DIN 7380

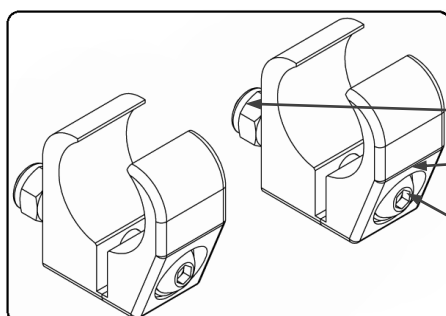
ref 53.02.43



D2 N30

M8 DIN 985
M8 DIN 125
M8x55 DIN 7380

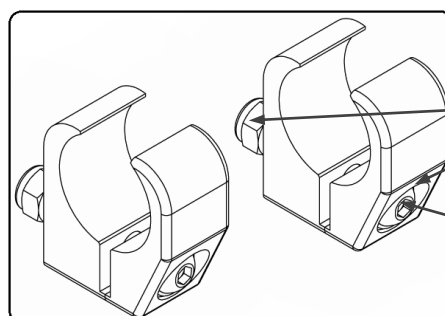
ref 53.02.44



D2 N31.6

M8 DIN 985
M8 DIN 125
M8x55 DIN 7380

ref 53.02.45

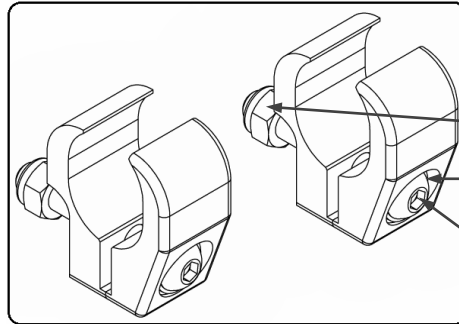


D2 N35

M8 DIN 985
M8 DIN 125
M8x55 DIN 7380

ref 53.02.46

- **OTHER CLAMPS FOR TUBES WITH SPECIAL SHAPES**



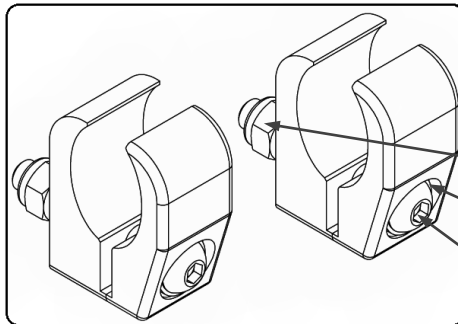
**D2 NH
QUICKIE**

M8 DIN 985

M8 DIN 125

M8x55 DIN 7380

ref 53.02.47



**D2 NT
PROGEO
TEKNA**

M8 DIN 985

M8 DIN 125

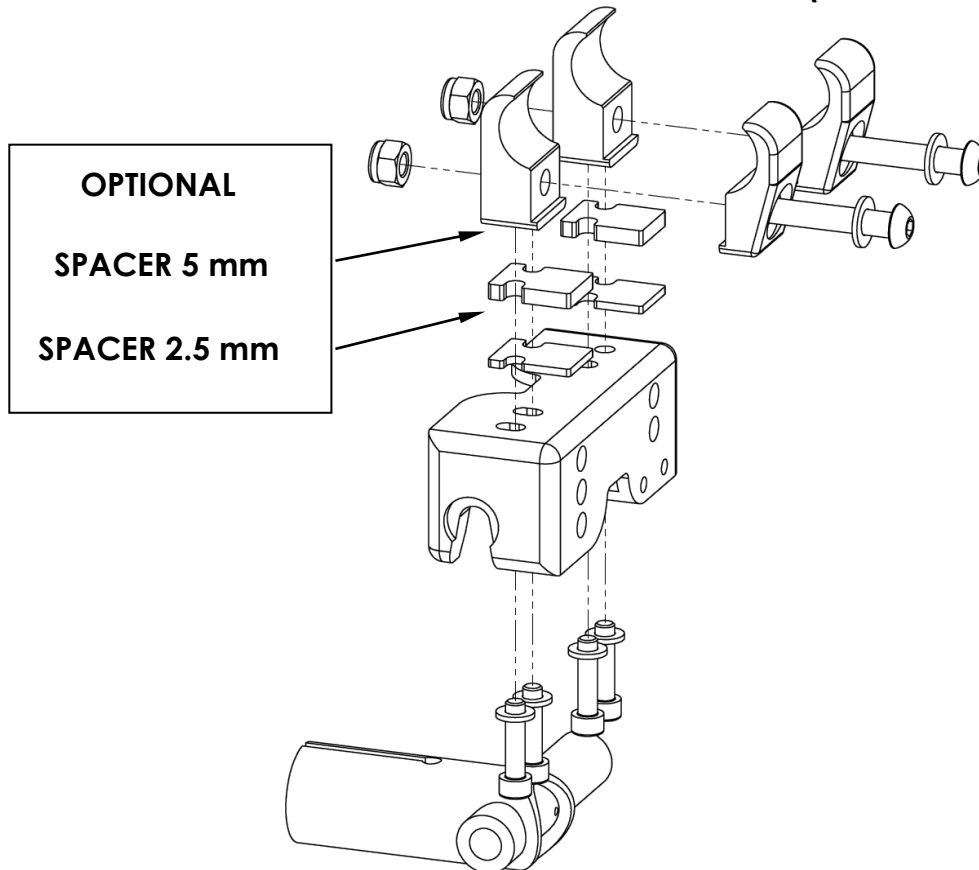
M8x55 DIN 7380

ref 53.02.49

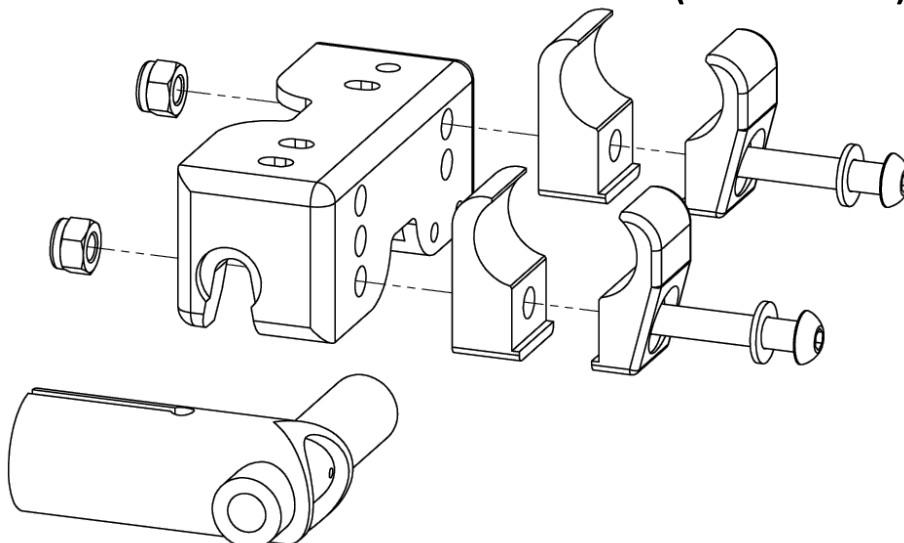
STEP 3 – ATTACHING THE CLAMPS TO THE BRACKETS

Attach the **CLAMPS** to the **BRACKETS** with the screws provided but don't tighten.
The parts should be able to slide.

USING FOLDING-FRAME BRACKET - D1 CNC - (STANDARD POSITION)

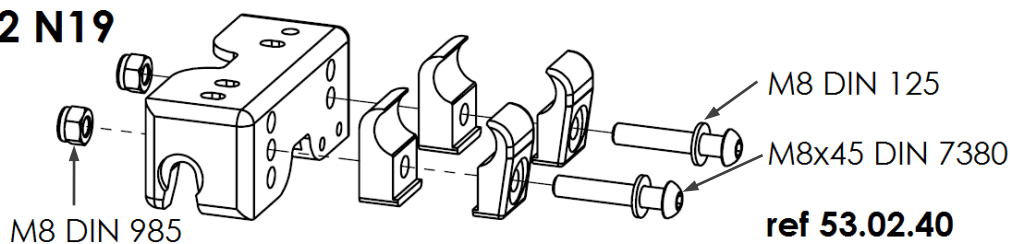


USING FOLDING-FRAME BRACKET - D1 CNC - (90° POSITION)

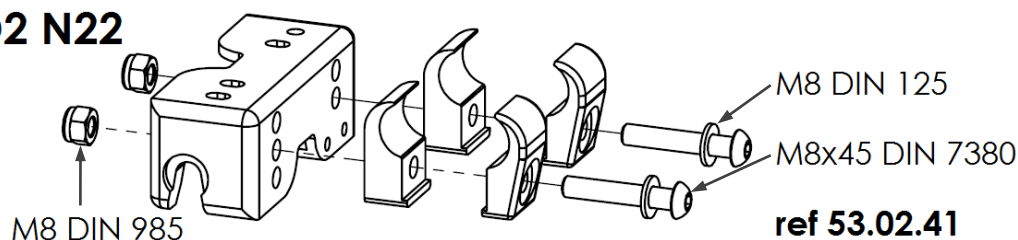


FOLDING-FRAME CLAMPS 90° POSITION

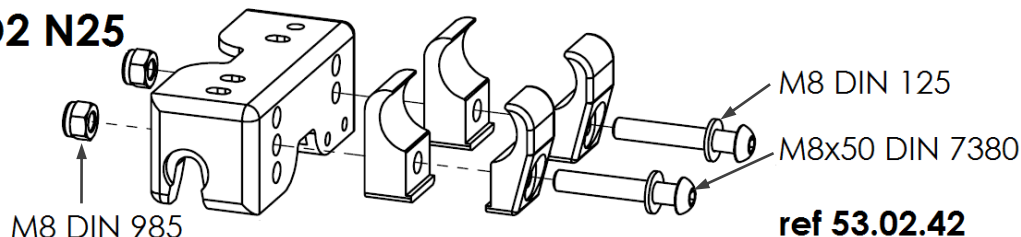
D2 N19



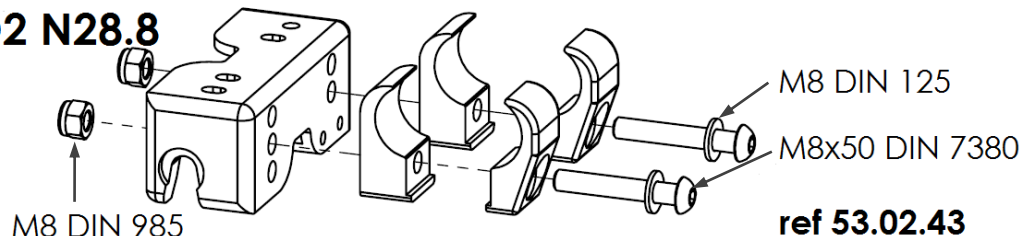
D2 N22



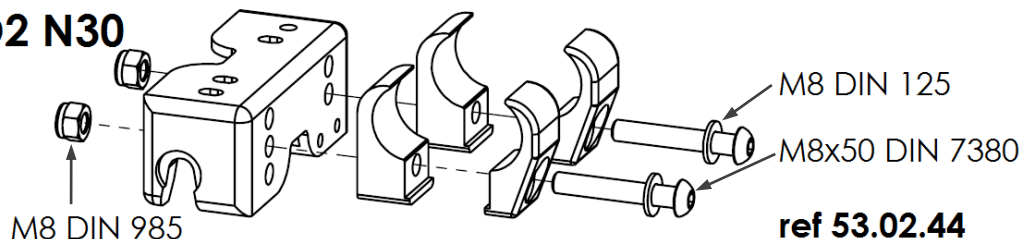
D2 N25



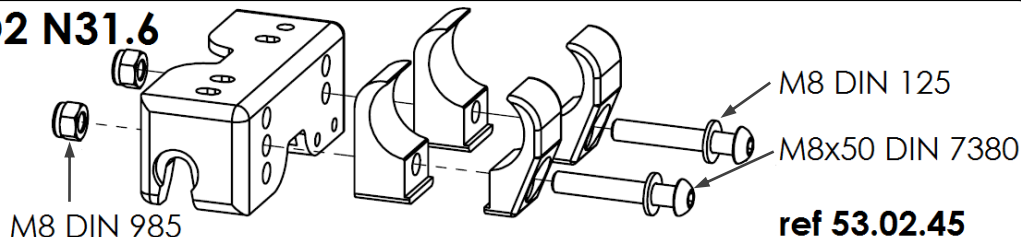
D2 N28.8



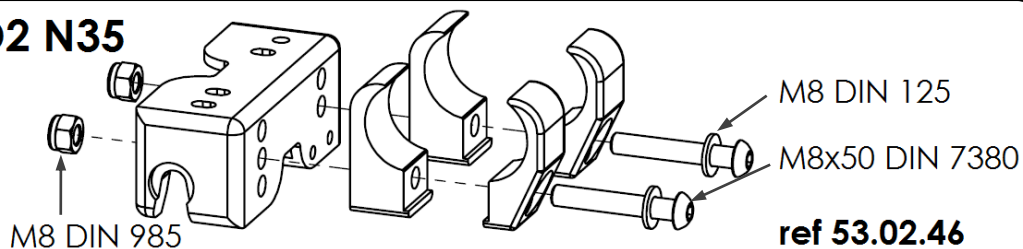
D2 N30



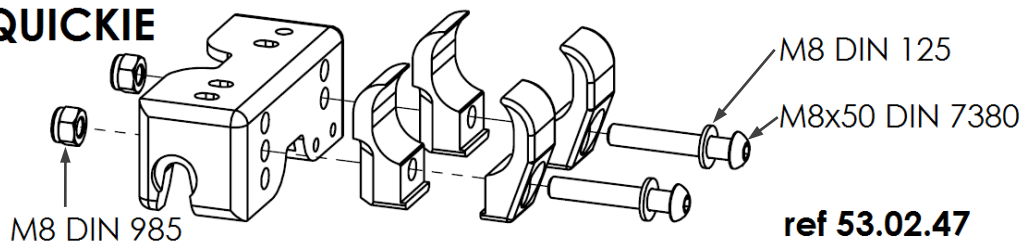
D2 N31.6



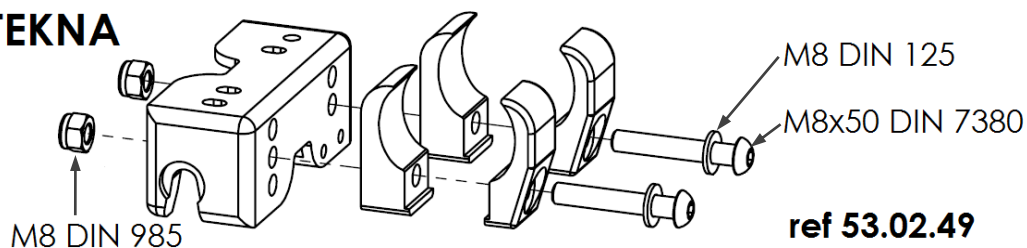
D2 N35



D2 NH QUICKIE

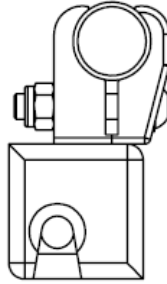


D2 NT PROGEO TEKNA

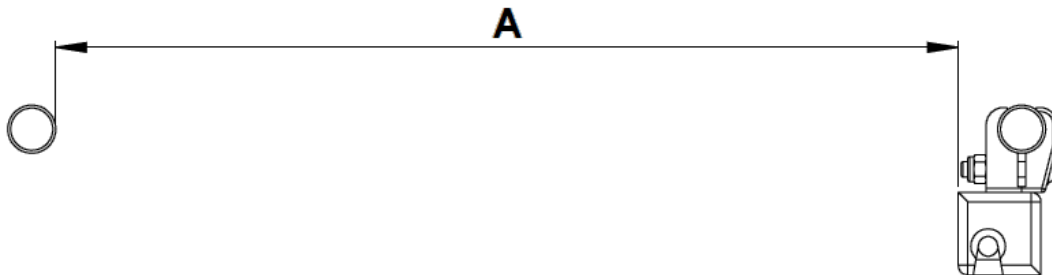


STEP 4 – CUTTING THE BATEC DOCKING-BAR

Clear the area of the wheelchair where you are going to attach the **DOCKING-BAR** and put the **left BRACKET perpendicular to the ground**, progressively tightening the **2 CLAMPS**, allowing the parts to slide.



Once placed the left bracket, we proceed to measure the distance between the inside of the left bracket and the inside of the right frame tube, as shown in the figure below.



USING FOLDING-FRAME BRACKET - D1 CNC (STANDARD POSITION)

Cut the **DOCKING-BAR** on both sides, using a band saw or a pipe cutter, according to the following formula:

A = Distance between the internal part of the left bracket and the internal part of the right frame of the wheelchair.

L = Left side of tube to cut

R = Right side of tube to cut

$$L = \frac{50 - (A + 3)}{2}$$

$$R = L + 1$$

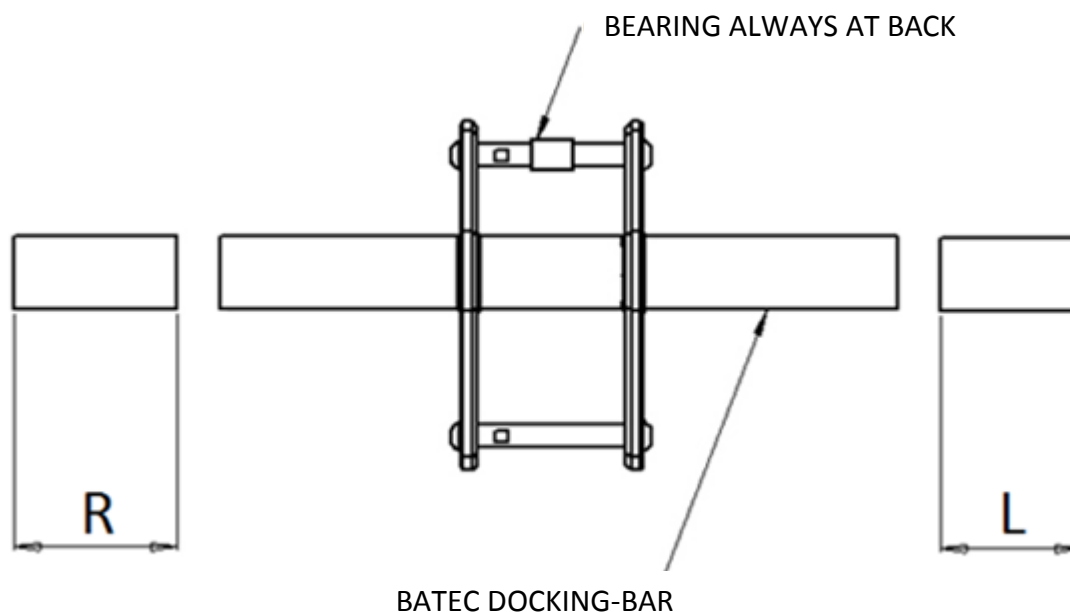
USING FOLDING-FRAME BRACKET - D1 CNC (90° POSITION)

Cut the **DOCKING-BAR** on both sides, using a band saw or a pipe cutter, according to the following formula:

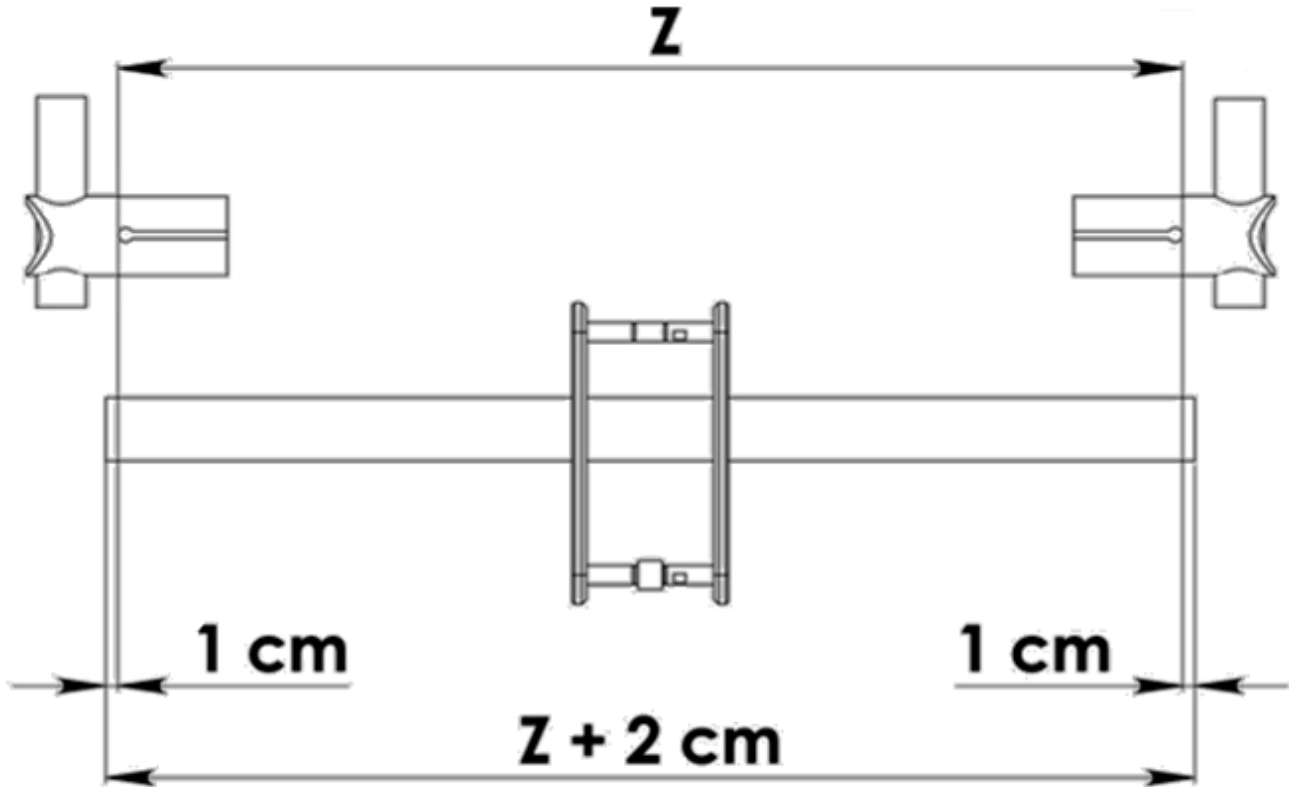
Use the same formula as the standard folding frame and add 3.5 cm to the L and R values.

$$L = \left(\frac{50 - (A + 3)}{2} \right) + 3,5$$

$$R = (L + 1) + 3,5$$



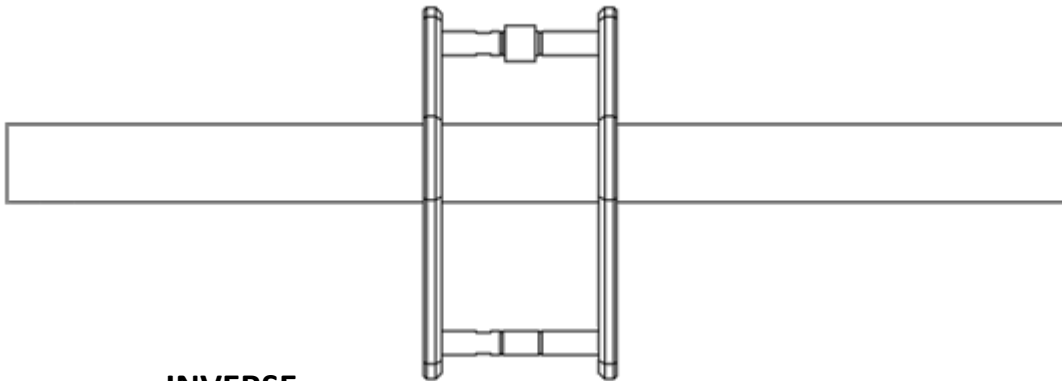
WARNING! - IF YOU HAVE ANY DOUBTS, FOLLOW THIS DIAGRAM TO CUT THE TUBES:



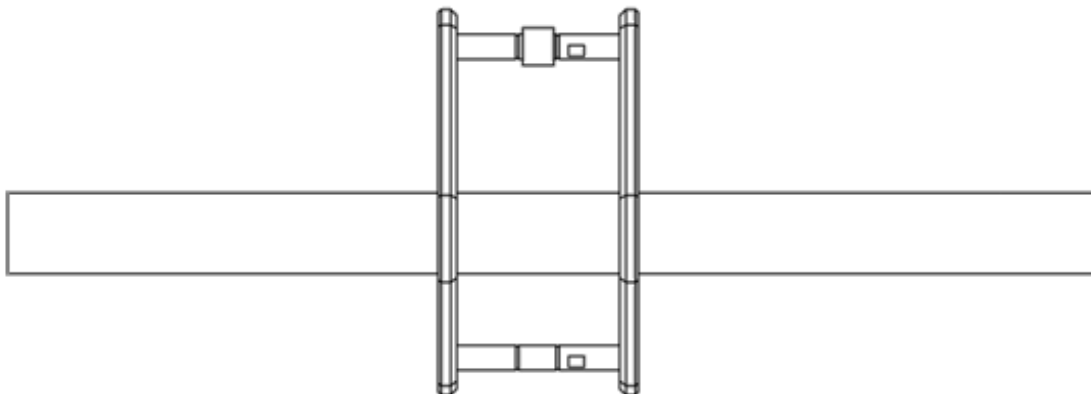
STEP 5 – ATTACHING THE BRACKETS TO THE BATEC DOCKING-BAR

The **DOCKING-BAR** can be installed in two positions:

STANDARD

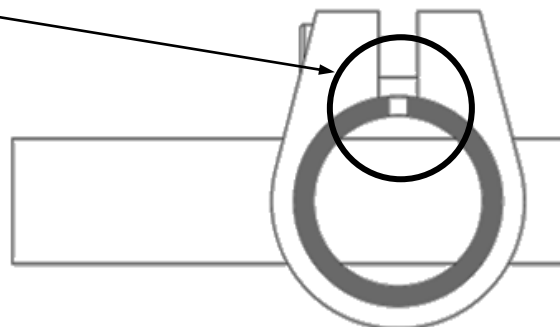


INVERSE



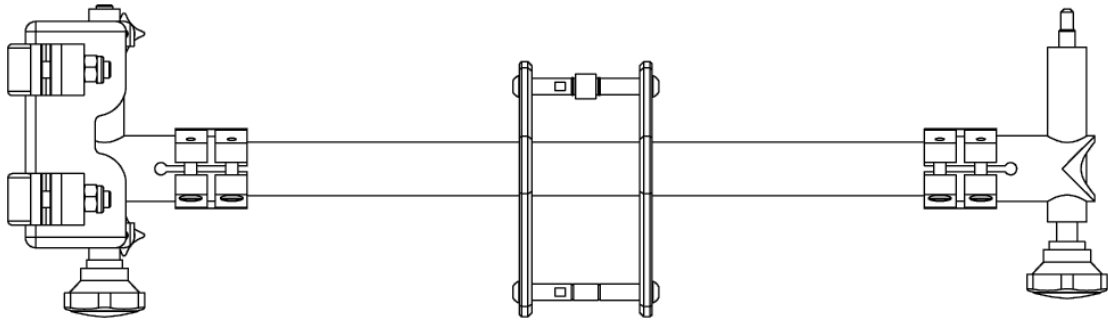
WARNING! – MAKE SURE YOU SWAP THE AXLES BECAUSE THE BEARING MUST ALWAYS BE ON THE REAR AXLE.

WARNING! – CLAMP POSITION.

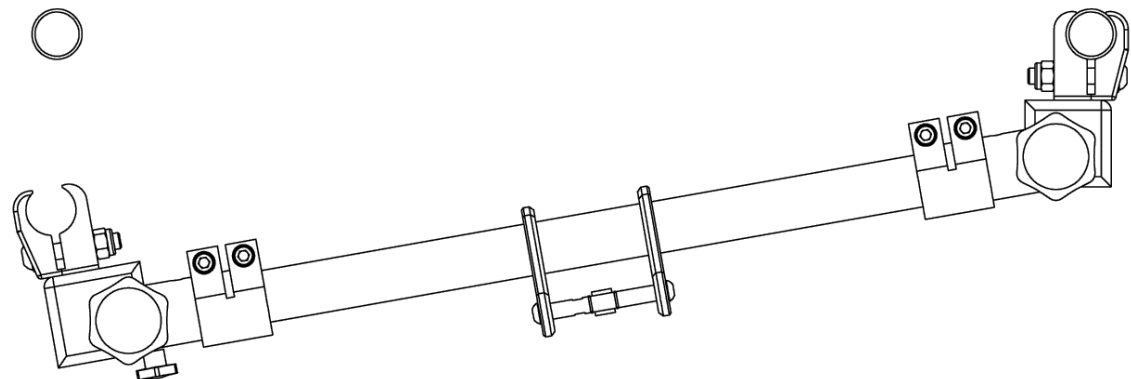


STEP 6 – PUTTING THE BATEC DOCKING-BAR ON THE CHAIR

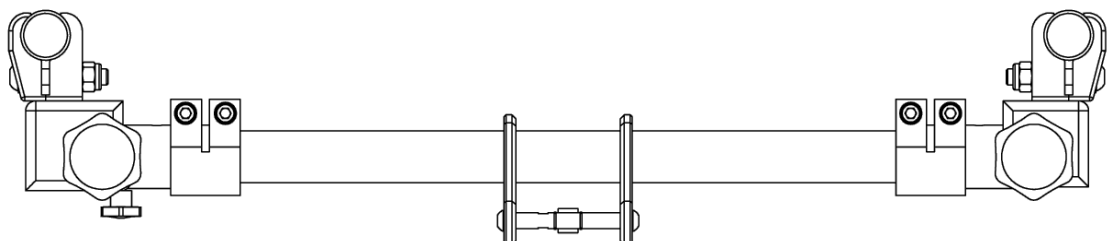
Attach the **right BRACKET** to the **DOCKING-BAR**.

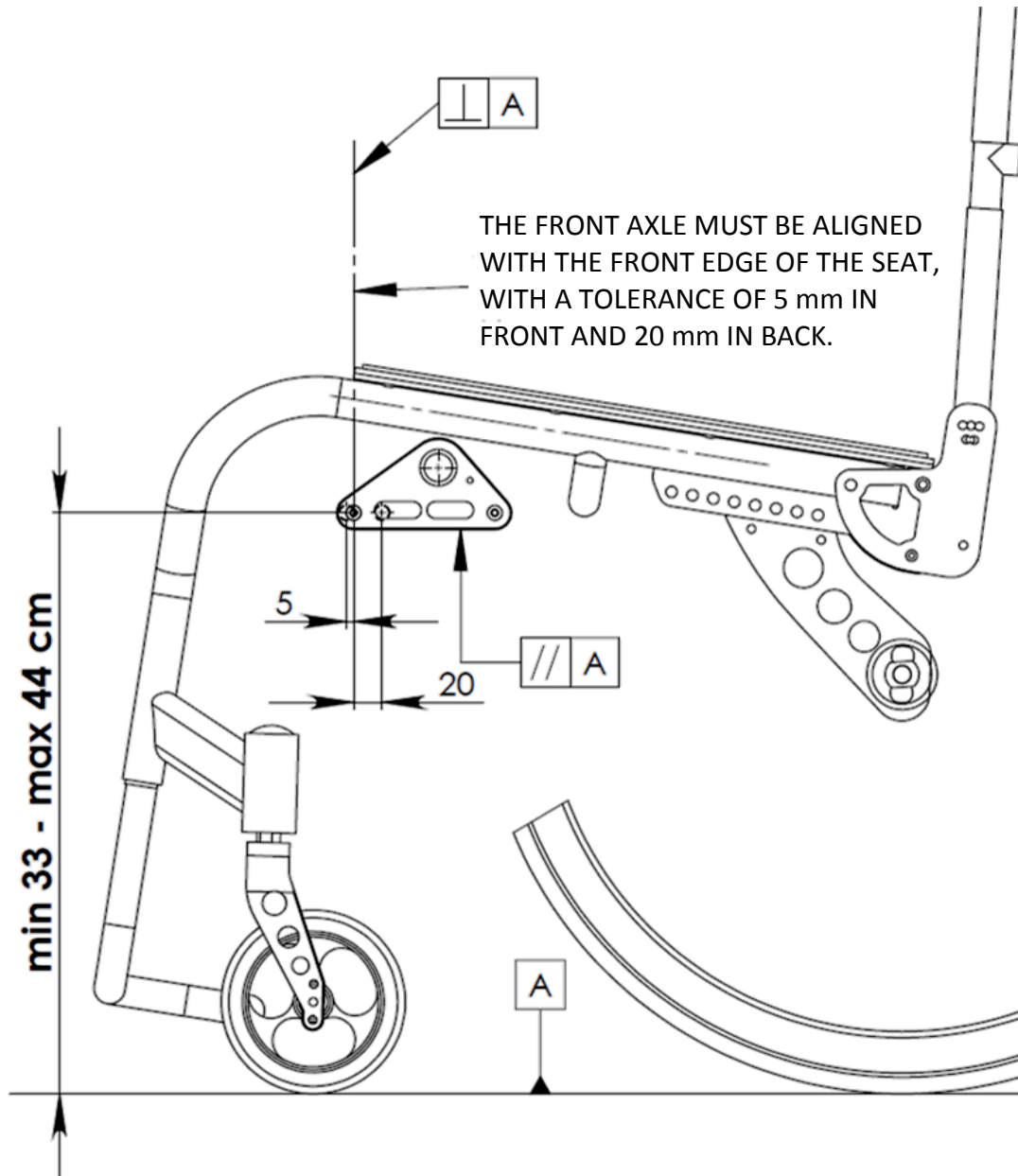


Install the **DOCKING-BAR** with the **right BRACKET**.

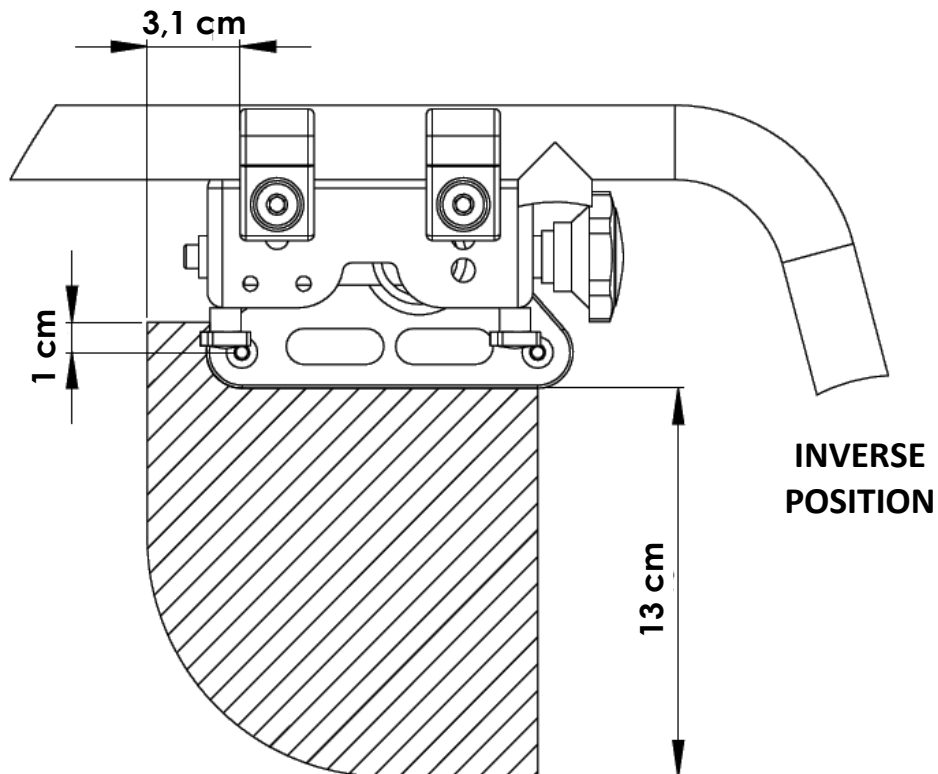
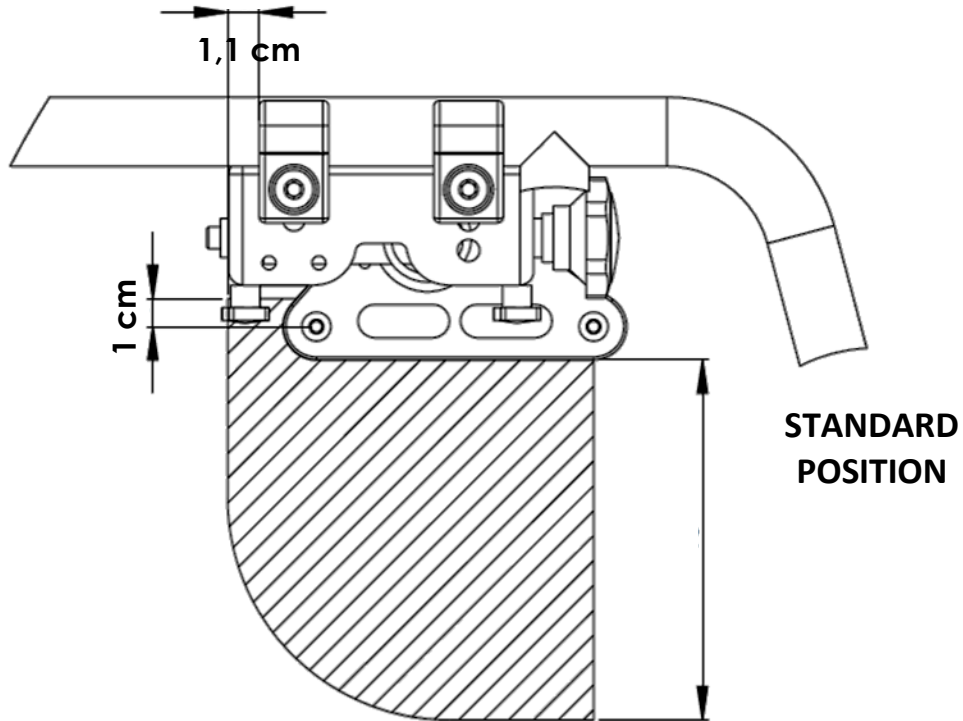


Install the **right BRACKET** perpendicular to the ground.



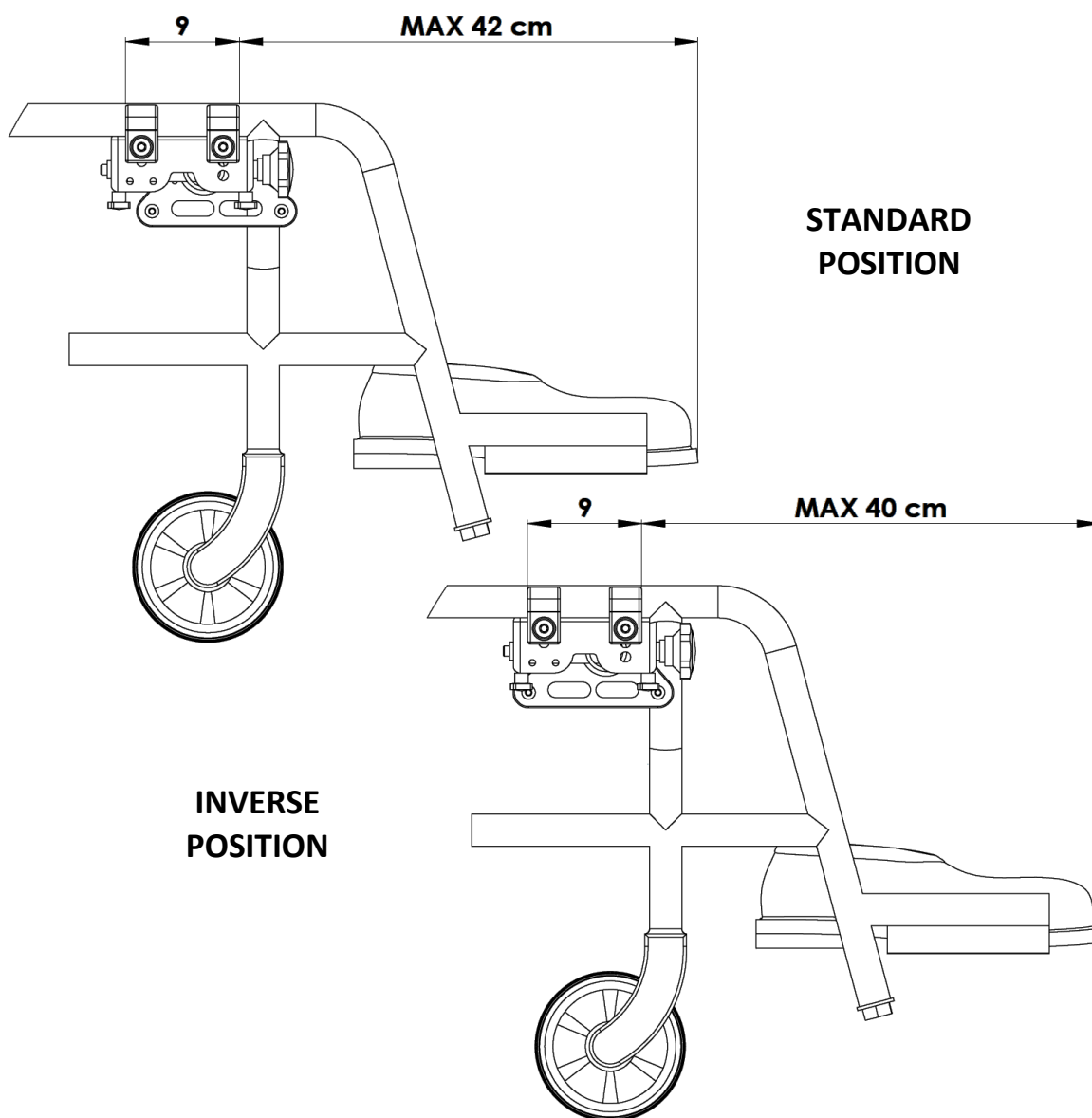


FREE SPACE NEEDED TO ATTACH THE DOCKING-BAR.



Make sure that the **maximum distance** between the front part of the first clamp and the tip of the user's feet is **equal to or less than 42 cm** (See box 17 of the **USER DETAILS** on the **BATEC ORDER FORM**).

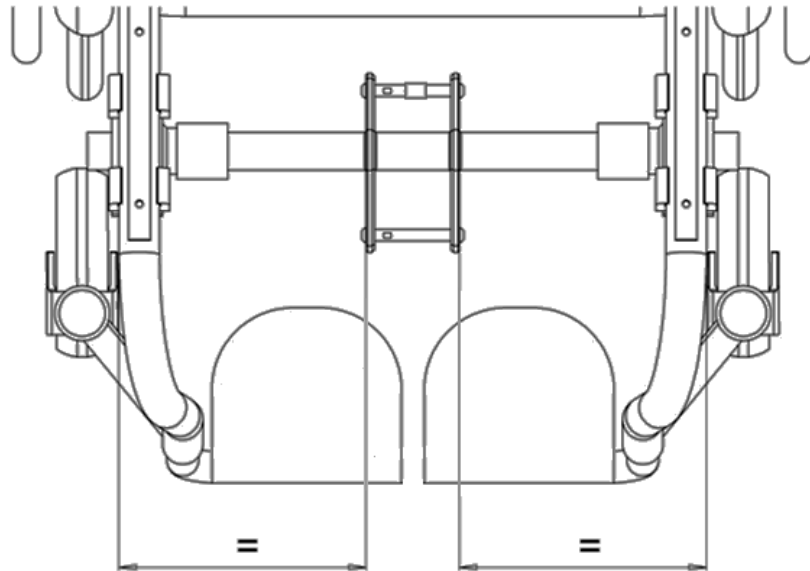
If the distance is greater, you can move the DOCKING-BAR forward as much as the user's legs allow.



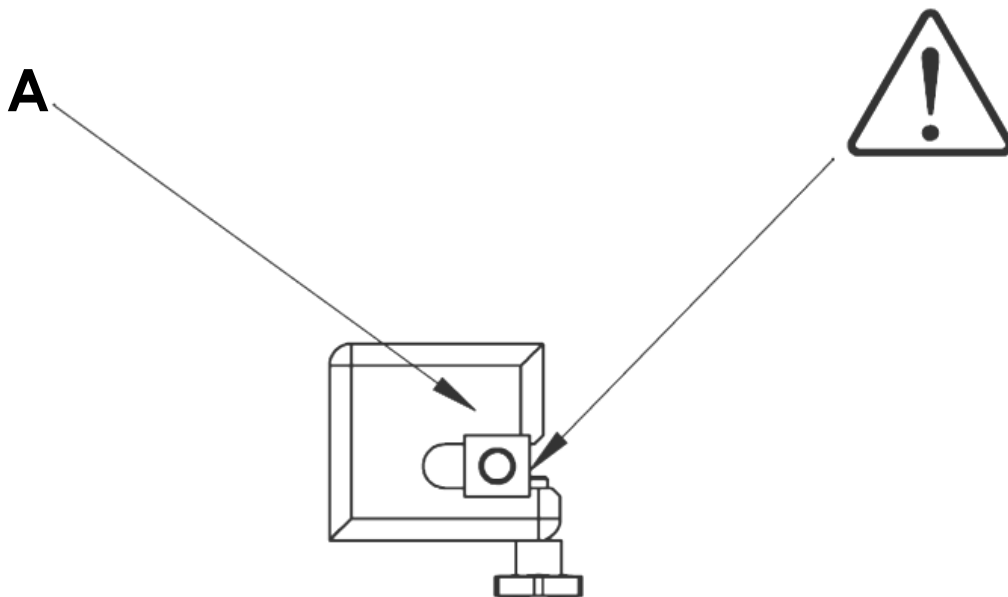
For chairs with short seats, we recommend moving the DOCKING-BAR as far back as possible, within the tolerance, to make the installation more compact.

STEP 7 – CENTERING THE BATEC DOCKING-BAR

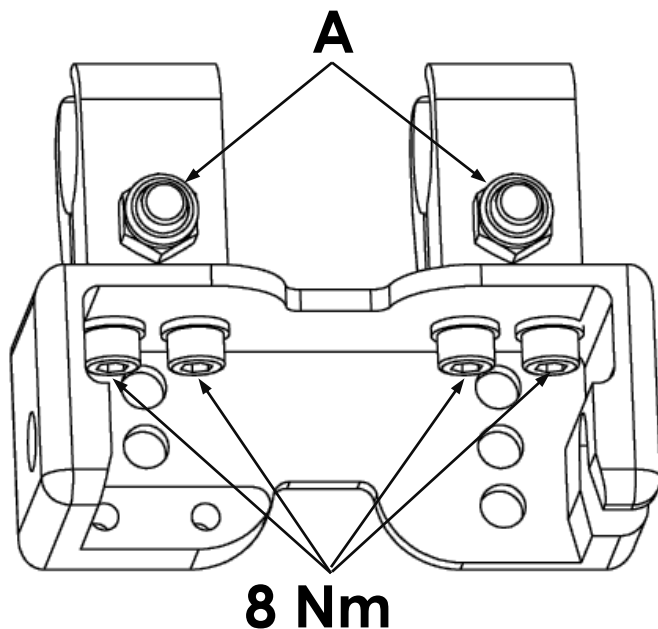
Centre the **DOCKING-BAR** between the **BRACKETS** and gently tighten the screws on the **BRACKET CLAMPS**.



WARNING! – PIECE A MUST BE TOUCHING THE THREATING PART OF THE FOUR-PRONG KNOBS SCREW.



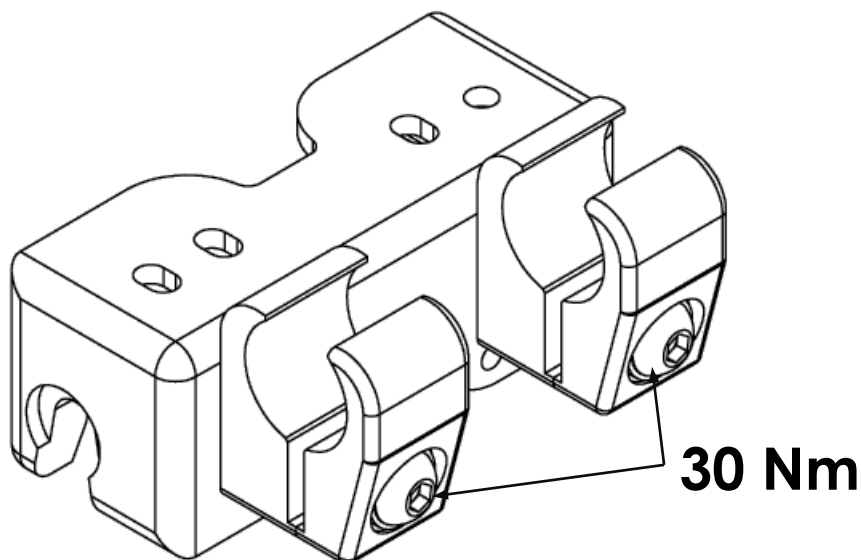
Tighten the screws on the **BRACKETS** and **CLAMPS** according to the table.



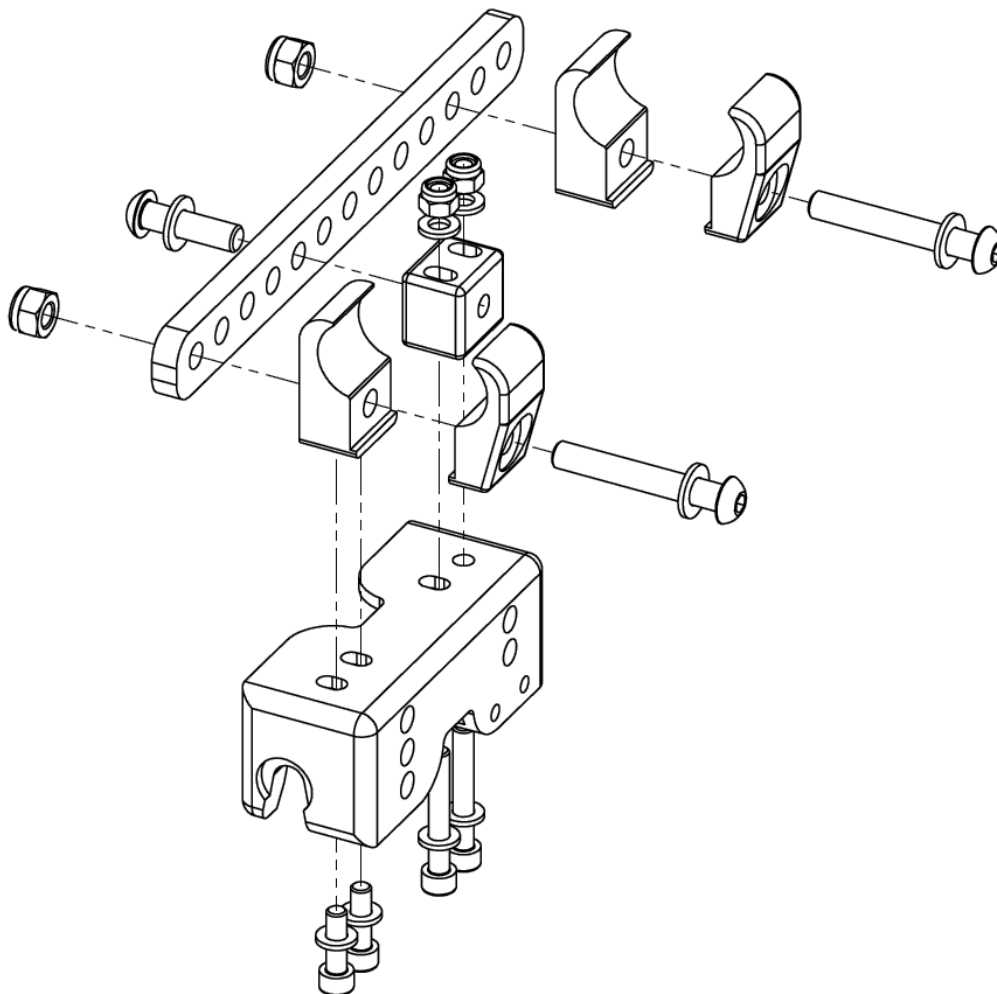
Nm of screws A according to the frame material:

- **Aluminium:** 25 Nm
- **Chrome-Molybdenum:** 18 Nm
- **Titanium:** 18 Nm
- **Carbon:** 20 Nm

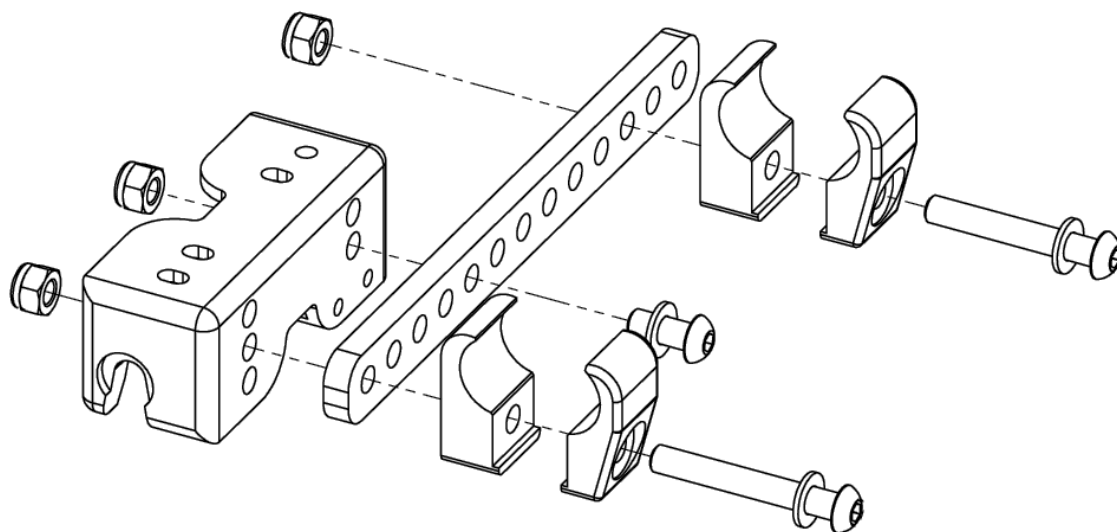
WARNING! – THE BRACKET IN 90° POSITION IS USED ONLY FOR ALUMINIUM FRAME



Bracket D1 CNC with adaptor D5 BA for moving the clamps in STANDARD POSITION.



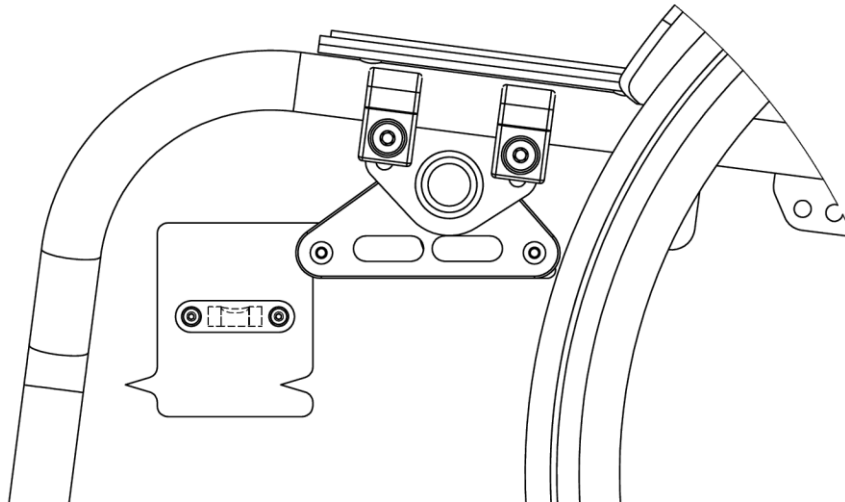
Bracket D1 CNC with adaptor D5 BA for moving the clamps in 90° POSITION.



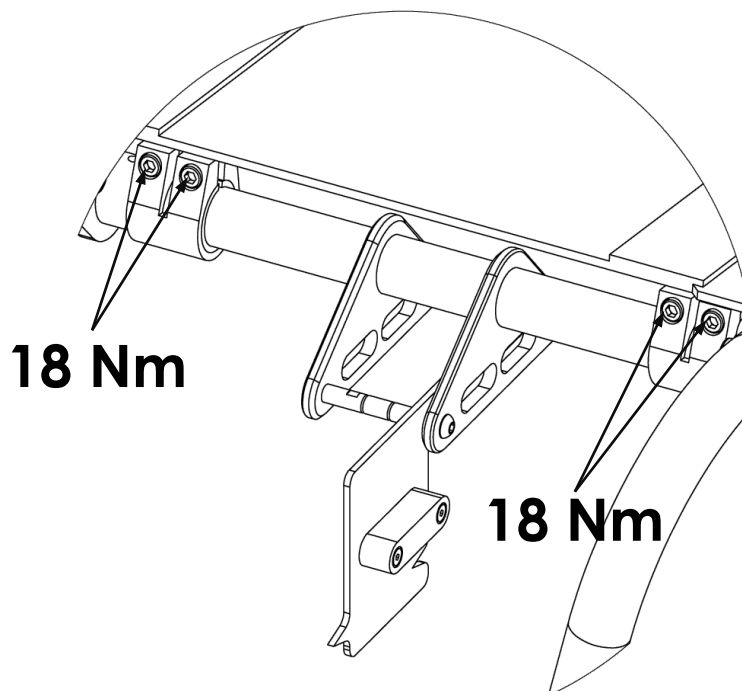
STEP 8 – LEVELLING THE BATEC DOCKING-BAR

Put the **BATEC LEVEL** on the **DOCKING-BAR** using the chosen **POSITION**.

Then, tip the **DOCKING-BAR** until the bubble in the **BATEC LEVEL** is between the two lines.

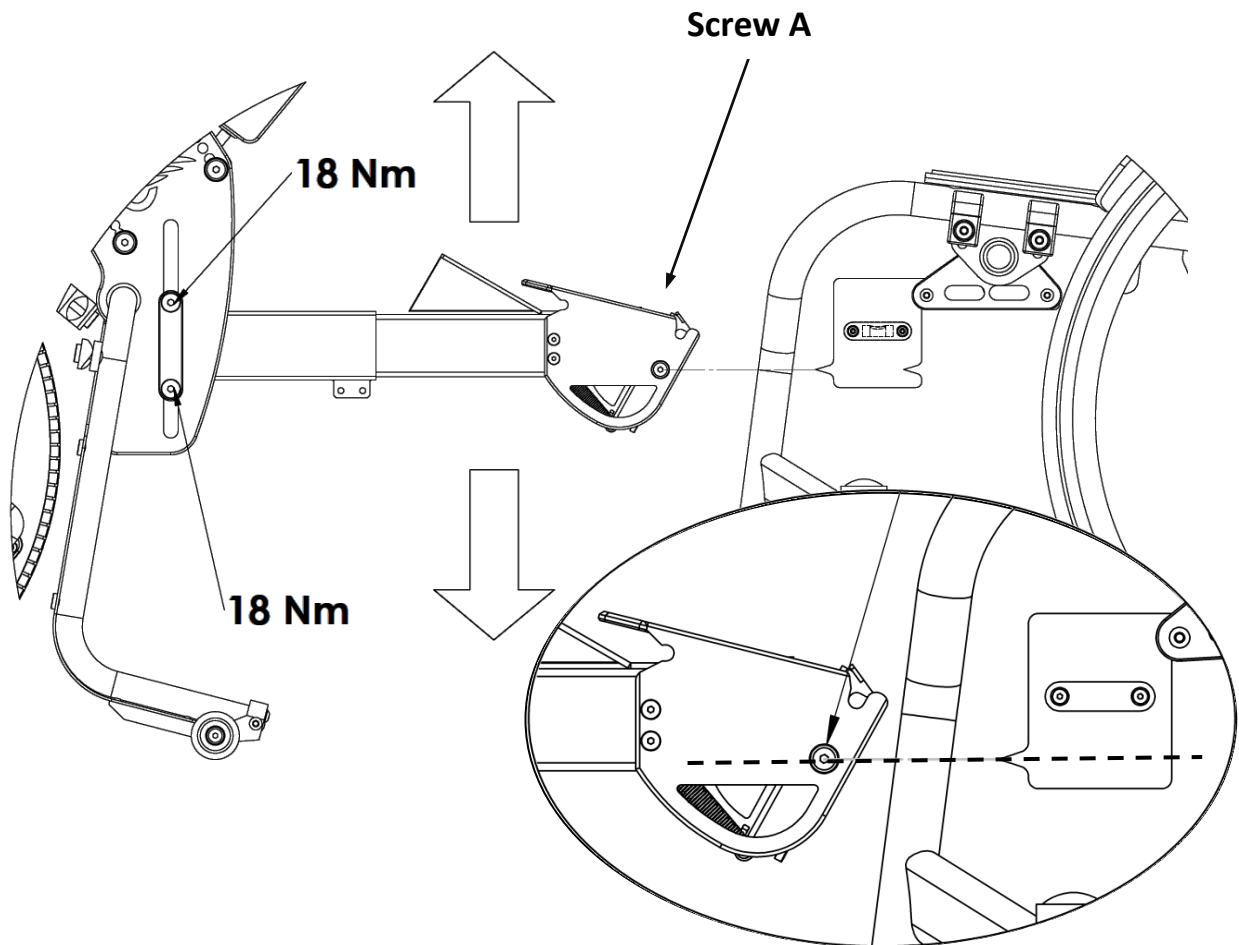


Finally, tighten the **CLAMPS ON THE BRACKETS**.



STEP 9 – ADJUSTING THE HEIGHT OF THE ANCHORING

Leave the **BATEC LEVEL** on the **DOCKING-BAR** and bring the **BATEC** towards the **BATEC LEVEL** at the anchoring zone. Adjust the height of the **BATEC** anchoring until the centre of **screw A** is exactly at the height of the edge of the **BATEC LEVEL** and tighten the screw indicated to set the height of the **ANCHORING**.



CHECK ATTACHING AND DETACHING

At this point, the **BATEC** is properly installed on the wheelchair. Attach and detach the **BATEC** several times to make sure everything is working properly.

WARNING! – YOU SHOULD HEAR A CLEAR ‘CLICK’ WHEN IT ANCHORS.

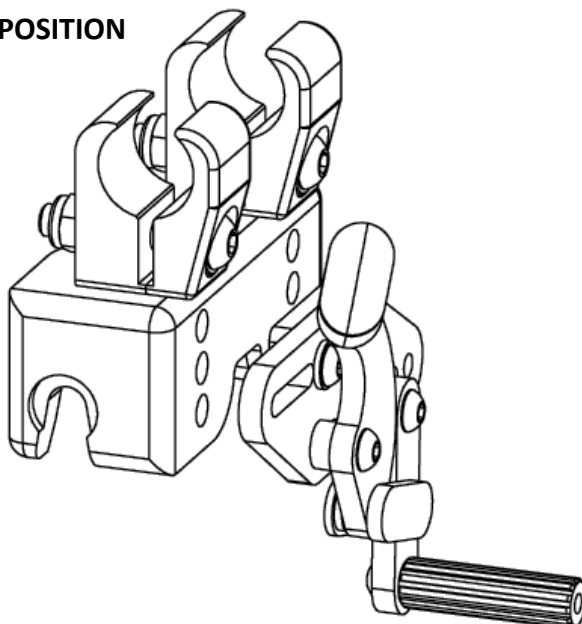
STEP 10 – INSTALLING BRAKES ON THE CHAIR

If you can't use the chair's own brakes, Batec provides **STANDARD PUSH-TO-LOCK BRAKES – D3 NR- ref. 53.03.10** with all the parts needed to install them on the brackets.

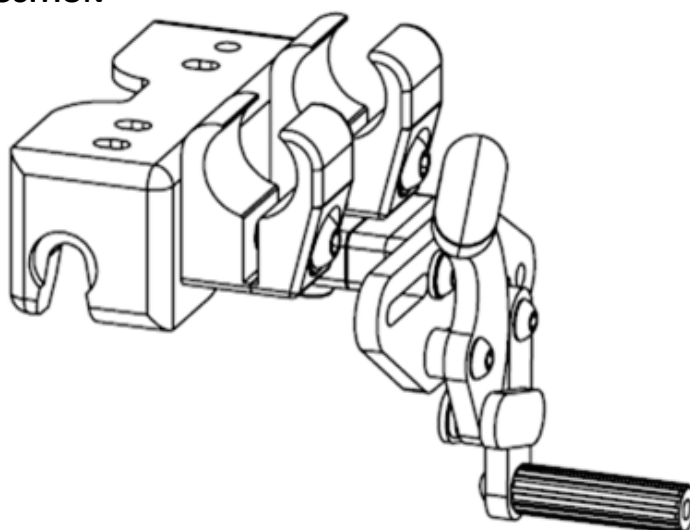
INSTALLING STANDARD PUSH-TO-LOCK BRAKES – D3 NR

Attach the standard brakes using the **BRAKE INSTALLATION TOOL – ref. 55.03.01**.

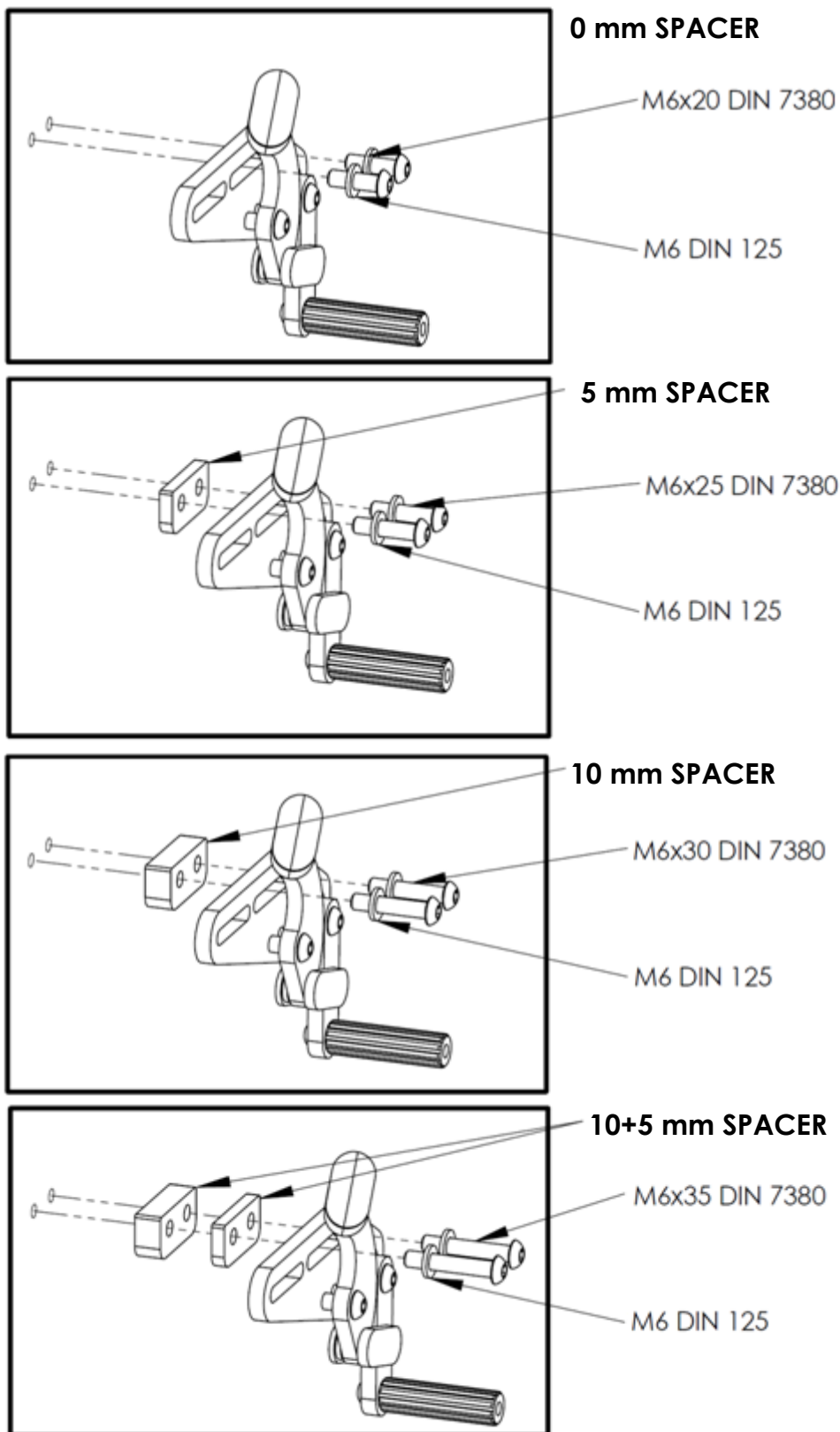
STANDARD POSITION



90° POSITION



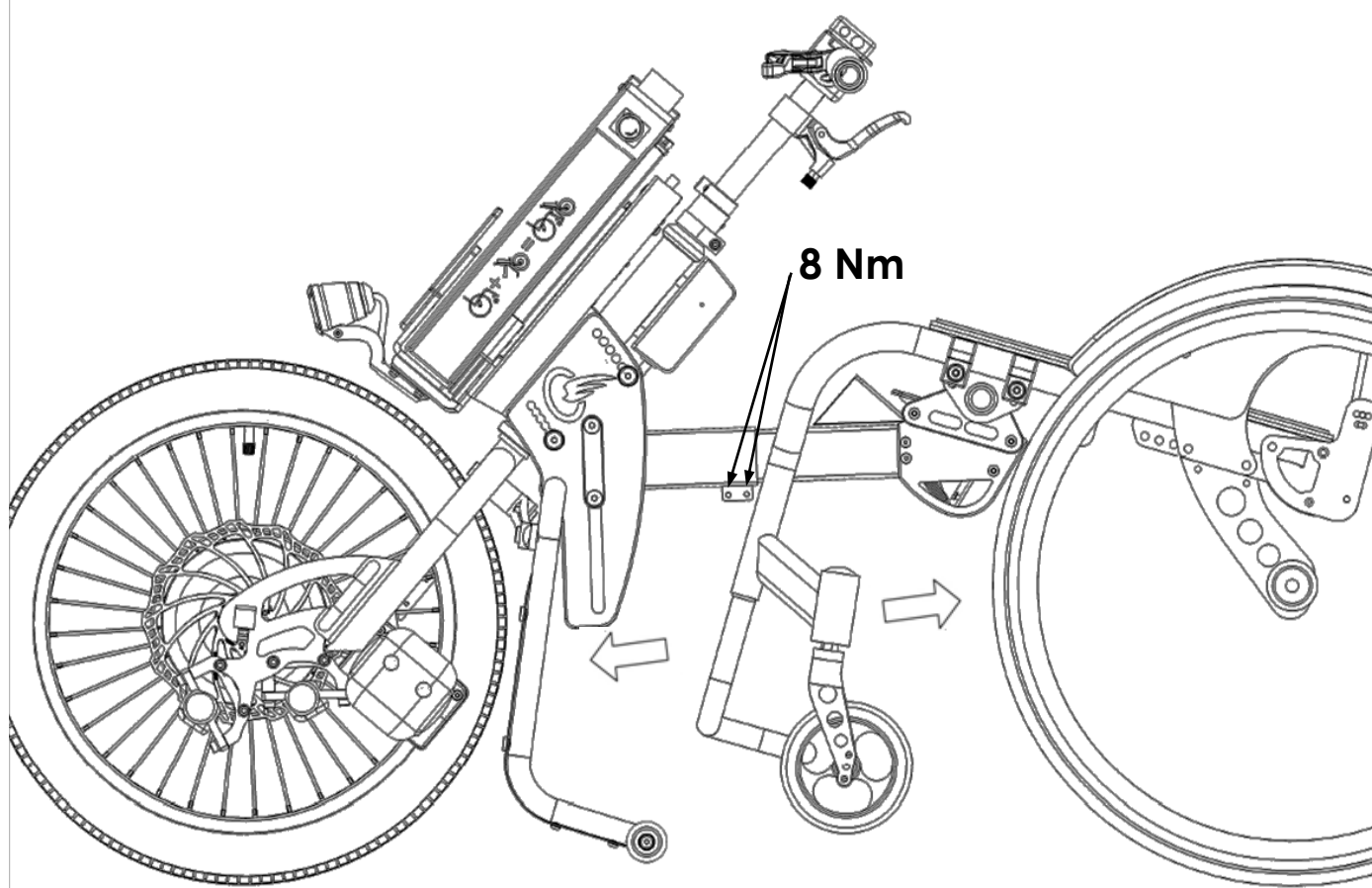
Install the **BRAKES** with the corresponding **SPACERS** according to the table.



STEP 11 – ADJUSTING THE DISTANCE BETWEEN THE BATEC AND THE CHAIR (FEET)

With the **BATEC** attached, adjust the distance between the **BATEC** and the **CHAIR (FEET)** leaving as little space as possible between the **BATEC SAFE-FEET stand frame** and the tips of the user's feet, using the telescopic **ANCHORING**.

Attach with the indicated screws.

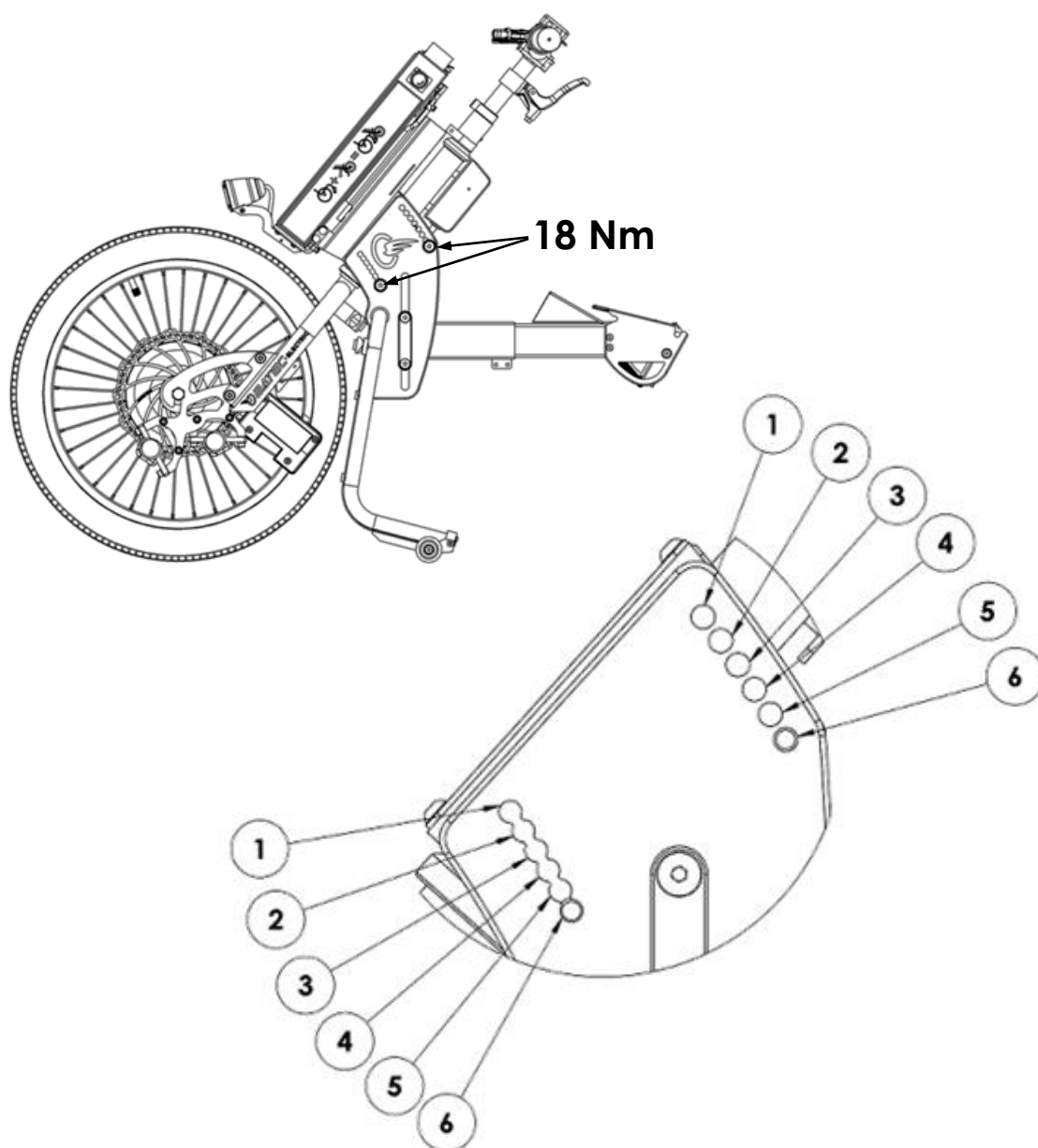


WARNING! – THE MAXIMUM DISTANCE IS LIMITED BY A SAFETY CABLE.

STEP 12 – ADJUSTING THE DISTANCE BETWEEN THE BATEC AND THE CHAIR (ARMS)

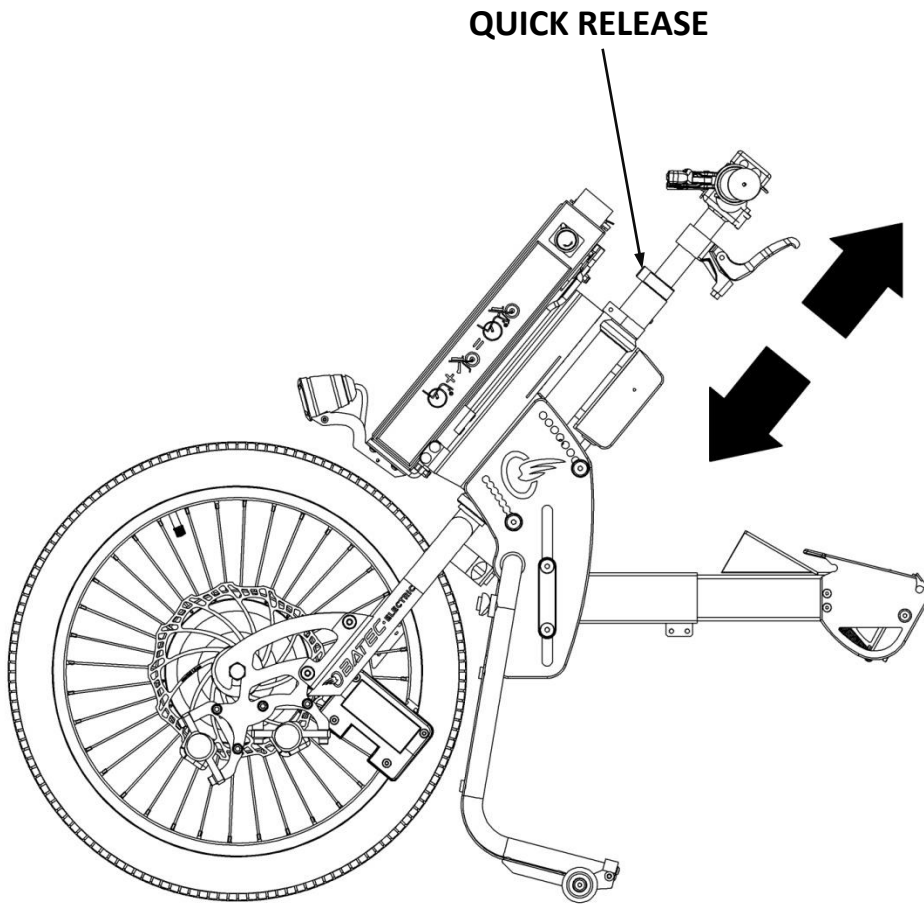
With the **BATEC** attached, adjust to the optimal distance for the user's arms. This can be done by regulating the angle of the stem.

Detach the **BATEC** and adjust the angle of the stem of the **BATEC** with the screws indicated. It is important that the upper and lower screws always be in the same number position.



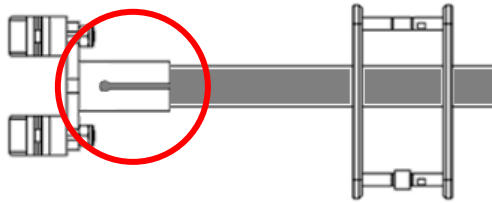
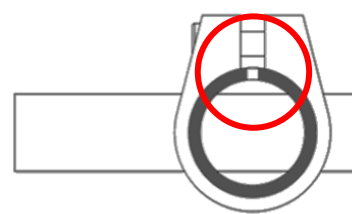
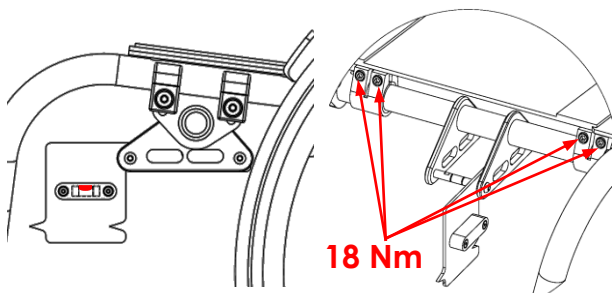
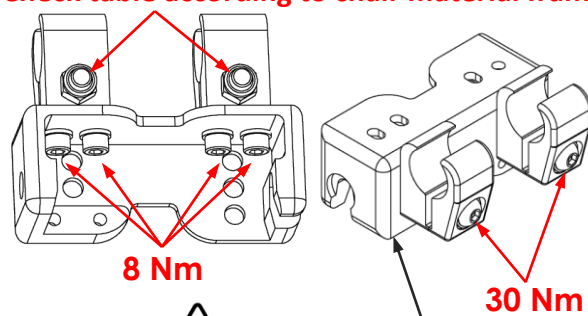
STEP 13 – ADJUSTING THE STEM HEIGHT

With the **BATEC** attached, adjust the height of the stem of the **BATEC** using the **QUICK RELEASE** lever.

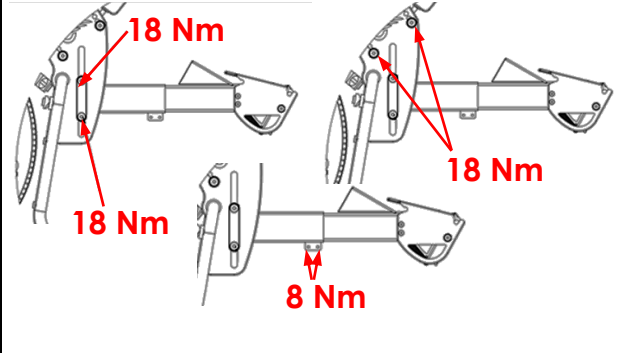


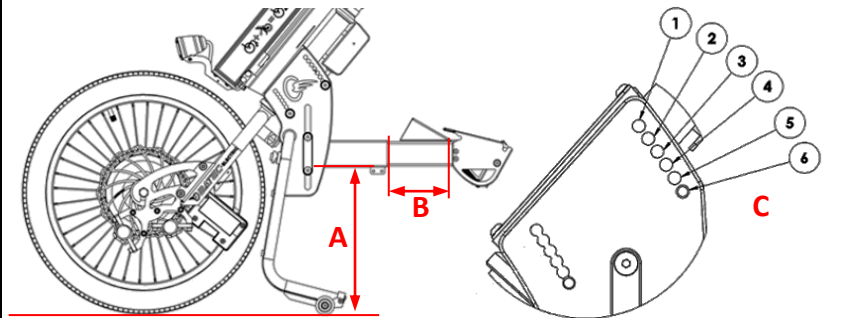
STEP 14 – VERIFICATION OF BATEC INSTALLATION

DISTRIBUTOR:	
BATEC SERIAL NUMBER:	

1. Checking the width of the BATEC DOCKING-BAR Check that the terminal holes are masked by the end of the BATEC DOCKING-BAR.		OK ☐
2. Checking the position of the brackets to the BATEC DOCKING-BAR Check the correct position of the clamps		OK ☐
3. Checking the level of the BATEC DOCKING-BAR Check that the BATEC DOCKING-BAR is centered and leveled to the ground using the BATEC LEVEL. Check that the clamp screws are at the correct pressure of 18 Nm .		OK ☐
4. Checking the terminal screws pressure Check the correct pressure of screw clamps and terminals according to the following table:	Check table according to chair material frame  8 Nm 30 Nm This Configuration ONLY in Aluminium frame The piece B must be touching the threatening part of the prong knobs screw B	OK ☐

CHAIR FRAME MATERIAL	Nm
Aluminium	25
Chrome-Mb	18
Titanium	18
Carbon	20
M6 DIN 912	8

5. Checking the fixation and frame screws pressure		OK ☐
Check that the screws of the fixation are at the correct pressure 8 Nm. Check that the screws of the Batec frame are at the correct pressure 18 Nm.		
6. Dynamic tests • Attach and detach 5 times the Batec hearing clearly the “CLACK” sound of the attaching system. • Check that there are no strange noises when testing the brakes and steering wheel and check if all the Batec components are working properly.		OK ☐

BRAND		
MODEL		
CHAIR WIDTH	cm	
Distance A	cm	
Distance B	cm	
Position C		

NAME OF THE INSTALLER	SIGNATURE / SEAL	DATE



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After you finish these steps, you will have completed installation of your Batec.

Now just print and save your registration certificate, STEP 14 of this document, for 5 years.

If you have any questions, contact us by email at: info@batec-mobility.com