

The **Multihopper** is a universal drum holder with turning device for **GRANUDOS 45/100** systems. The Multihopper system allows the use of all standard chlorine granulate drums on the market (from 25 kg to 50 kg). Moreover, the Multihopper facilitates handling when changing from an empty to a full chlorine drum. This makes work significantly easier for the operator. The system is available **both for retrofitting existing GRANUDOS systems and for equipping new systems.**

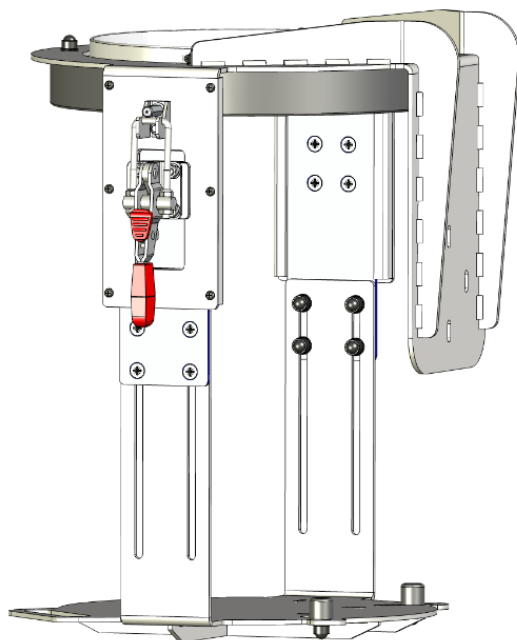


ATTENTION! SAFETY NOTICE:

Prior to the conversion of a GRANUDOS device, the warning and safety instructions for handling chemicals in the GRANUDOS operating instructions must be observed!

Description: The drum intended for use is inserted into the retaining bracket and pressed against the dosing head or the universal adapter ring by means of two tension levers. This ensures a secure, firm and tight connection between the drum and the dosing head. The complete unit is then rotated and brought into the dosing position. When changing the drum type/drum size, only a few adjustments are required to adapt the Multihopper to the new drum type.

Multihopper device



Component overview

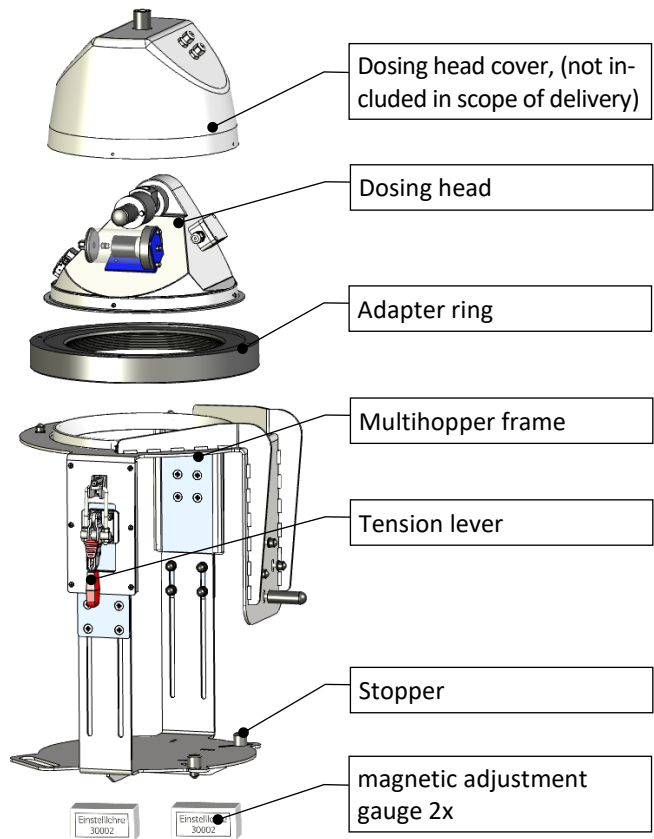


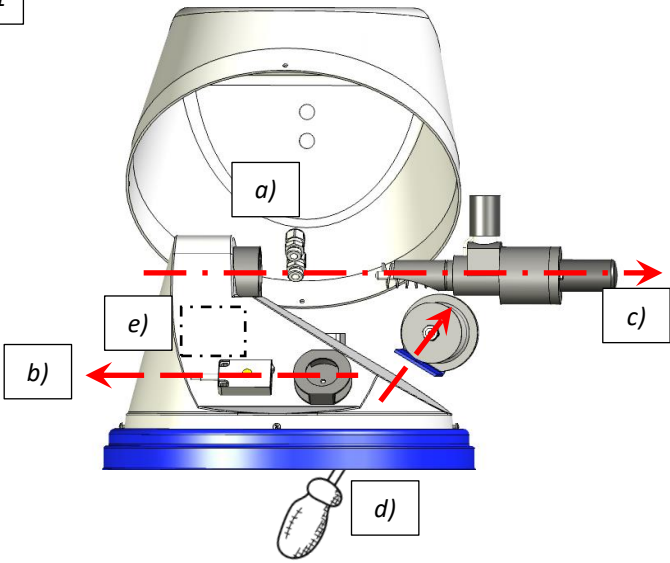
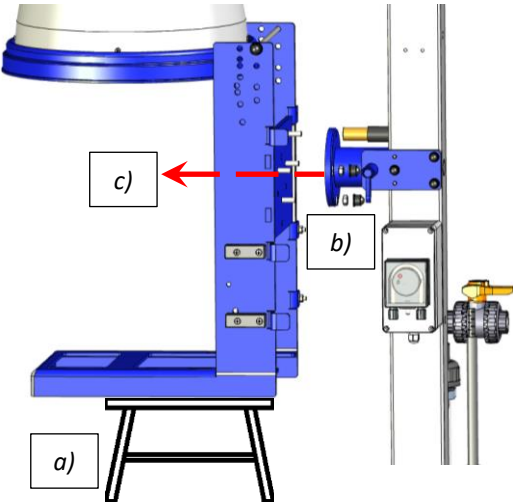
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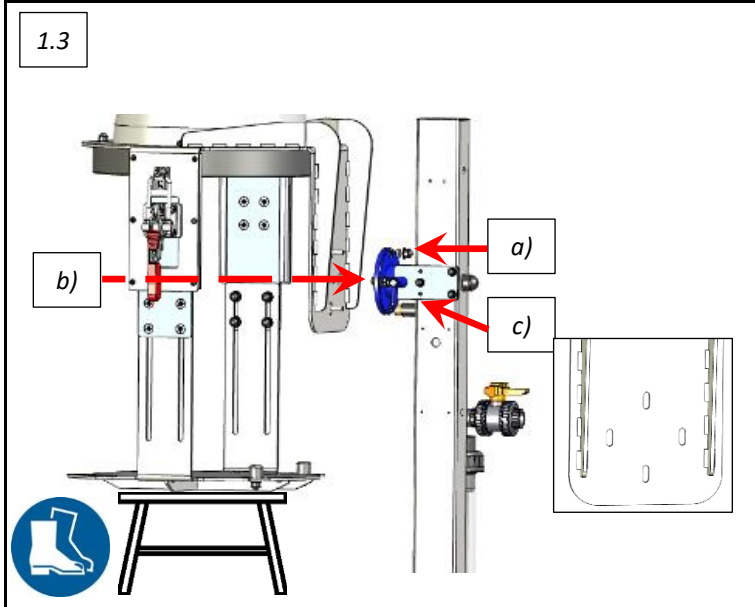
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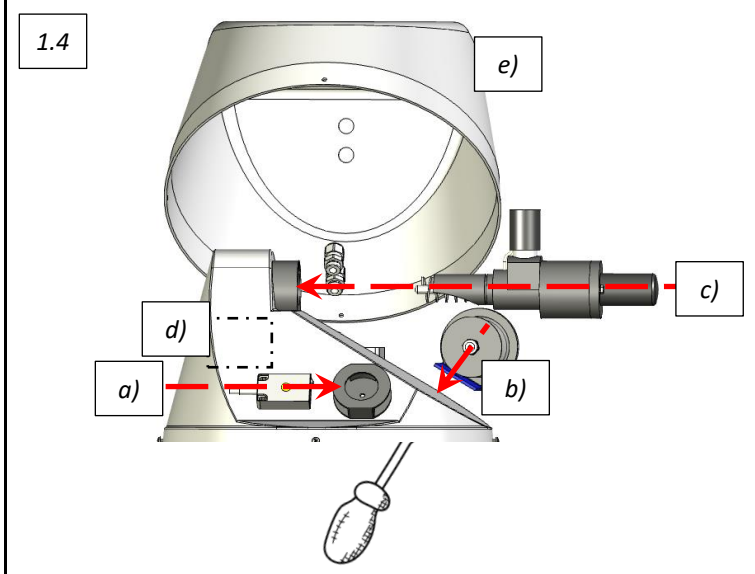
1 Conversion of drum turning device to Multihopper system

<p>1.1</p> 	<p>1.1 Removing the existing dosing unit</p> <ul style="list-style-type: none"> a) Remove cover; loosen 4 self-tapping screws and 2 screwed cable glands, fold cover upwards b) Pull chlorine empty switch from the bracket c) Pull dosing motor from the bracket d) Remove knocker, loosen 2 screws of the retaining bracket from the inside e) Disconnect the cable at the connection socket (rear).
<p>1.2</p> 	<p>1.2 Removing the turning device from the standing column</p> <ul style="list-style-type: none"> a) Support the turning device or call in a 2nd person! Attention! Danger of foot injury; the turning device must be secured! b) Loosen 4 screws on the rotating flange c) Remove turning device <p>Notice! If no empty chlorine drum is available, continue with <i>Chapter 3, page 7 "Adjusting the Multihopper - with full chlorine drum"</i>.</p>



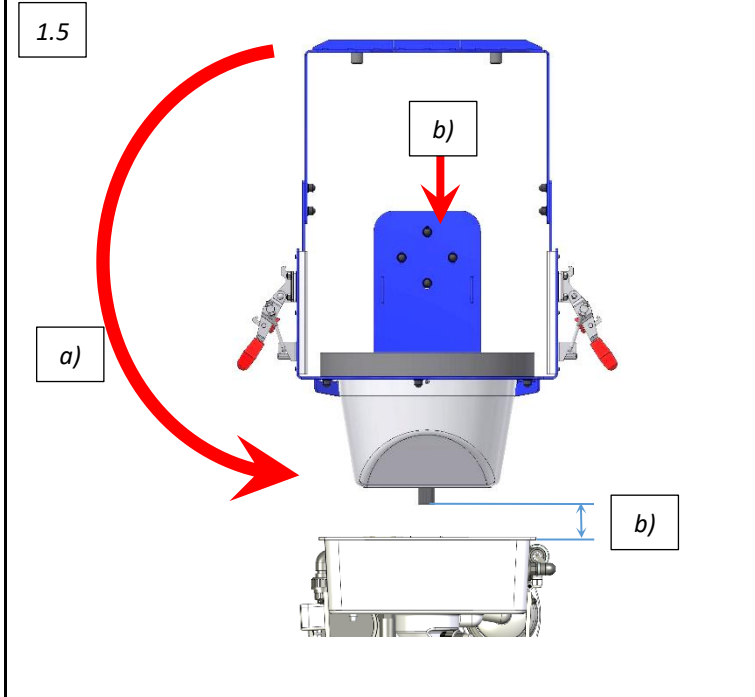
1.3 Installing the Multihopper on the standing column

- 2 persons are required for this task!
Attention! Danger of foot injury; the Multihopper device must be secured!
- a) Insert 1 screw in the drill hole on the Multihopper
 - b) Place the Multihopper onto the rotating flange and secure with a nut
 - c) Attach the Multihopper to the rotating flange with the remaining 3 screws and adjust to the middle position of the slotted holes on the Multihopper; attach dust covers, 8 pcs



1.4 Installing the dosing unit

- a) Push the chlorine empty switch into the bracket
- b) Install the knocker; attach the retaining bracket with 2 screws from the inside
- c) Push the dosing motor into the dosing head
- d) Connect the cable to the connection socket (rear)
- e) Attach the cover; 4 self-tapping screws, 2 screwed cable glands



1.5 Adjusting the distance

- a) Rotate the Multihopper into the dosing position
- b) Check the distance between the dosing pipe and the flushing tub; it should be approx. 75 mm. If necessary, adjust via the 4 slotted holes on the rotating flange
- c) Rotate the Multihopper back to its original position

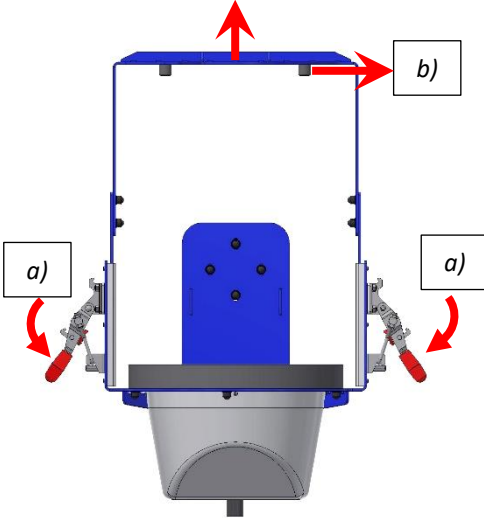
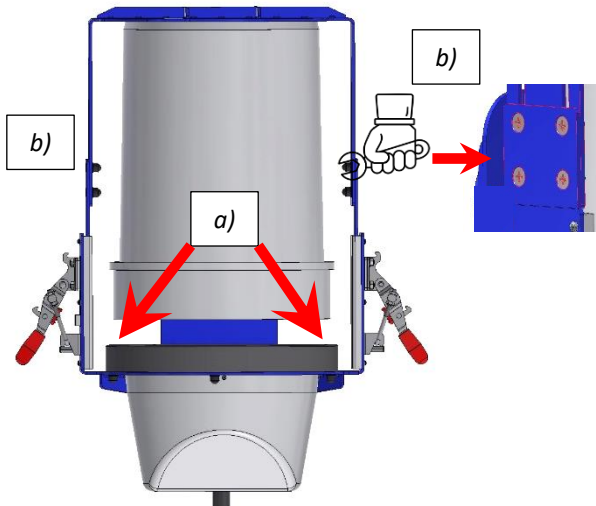
The installation of the Multihopper device is completed.

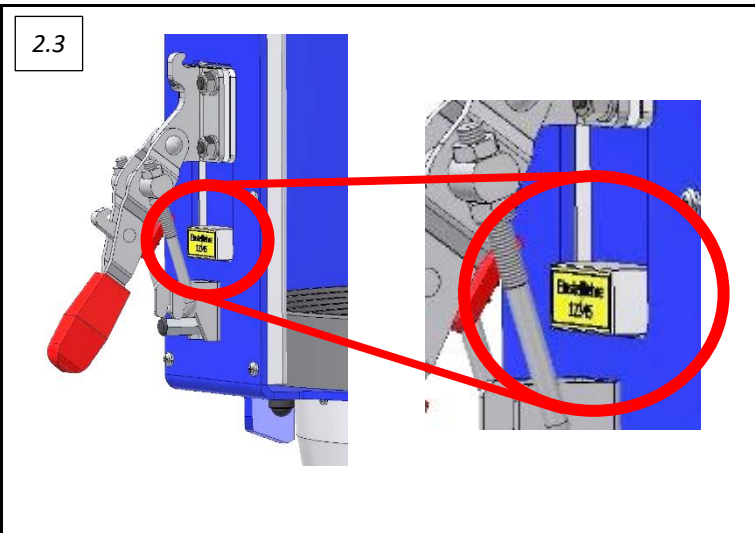
Check if the setting corresponds to the drum size! Adjust the Multihopper to the drum size, if necessary

2 Adjusting the Multihopper - with empty chlorine drum

The Multihopper is adjusted ex works to a specific type of chlorine drum. If another chlorine drum is used, the Multihopper must be adjusted to that particular chlorine drum.

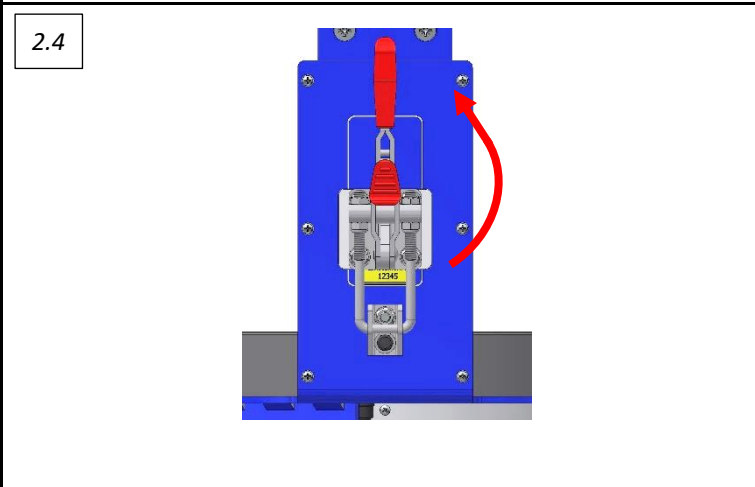
Adjusting the Multihopper with an empty chlorine drum is preferred since the adjustments are much easier to make.

<p>2.1</p> 	<p>2.1 Opening the Multihopper</p> <ul style="list-style-type: none"> a) Press the 2 tension levers downwards; the metal frame will move upwards. Notice! Always move both tension levers simultaneously to avoid distorting the metal frame. b) Loosen the 2 stoppers and push them all the way to the outside.
<p>2.2</p> 	<p>2.2 Adjusting the settings</p> <ul style="list-style-type: none"> a) Place an empty drum inside the Multihopper and centre it on the grooves of the grey adapter ring b) Loosen the lateral screws, left and right, (2x4 pcs)



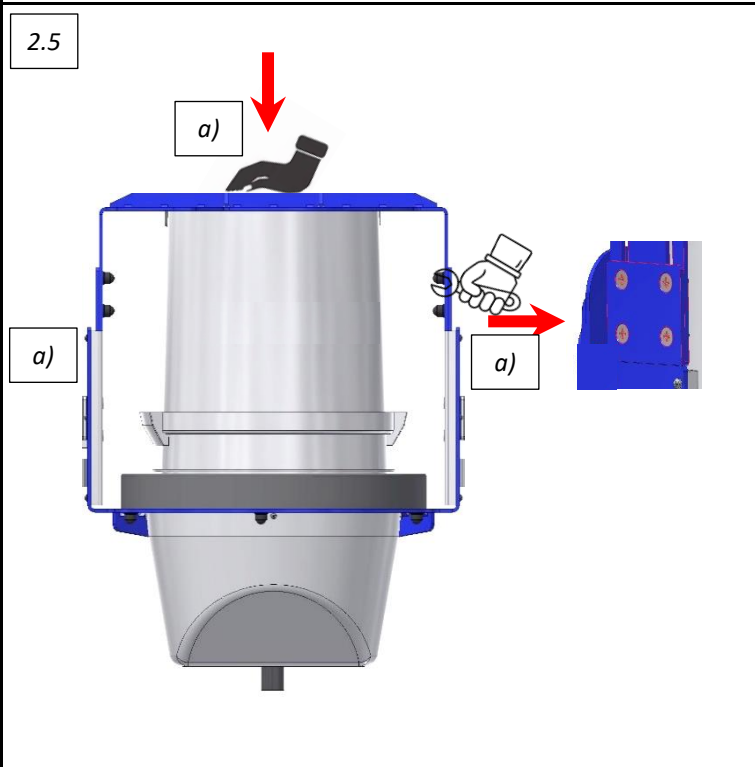
2.3 Inserting the adjustment gauges

Insert the 2 magnetic adjustment gauges (included in the scope of delivery) into the recess of the two tension levers. The adjustment gauges are used as spacers for adjusting the metal frame. This provides the chlorine drum with the **proper pretension**.



2.4 Clamping down the adjustment gauges

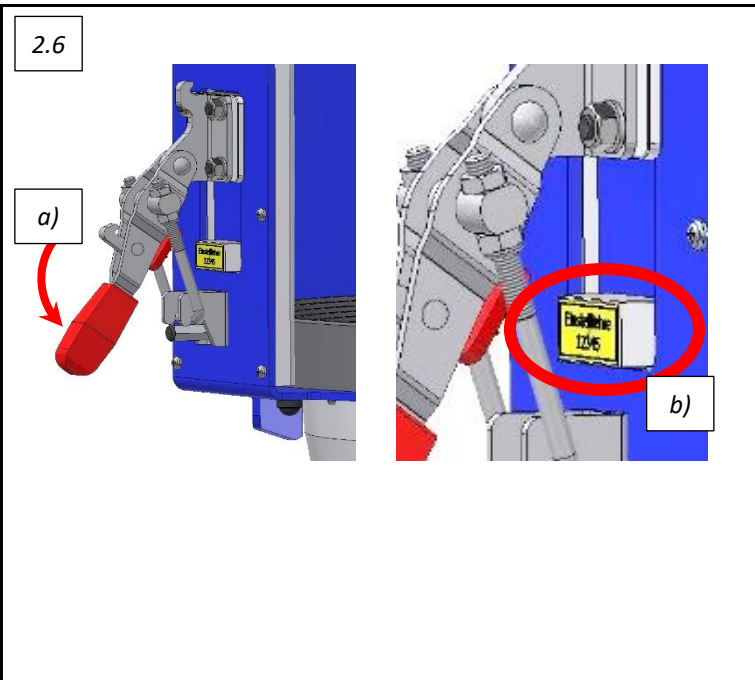
Carefully move the 2 tension levers **upwards** until you feel a slight resistance; **do not move up any further!** **Attention!** If the tension levers are moved further against the resistance, the tensioning device may be damaged.



2.5 Multihopper, adjusting the drum height

- a) Press the metal frame downwards and simultaneously tighten the lateral screws (2x4 pcs). This adjusts the metal frame to the drum height.

Check the correct fit of the drum in the adapter ring!



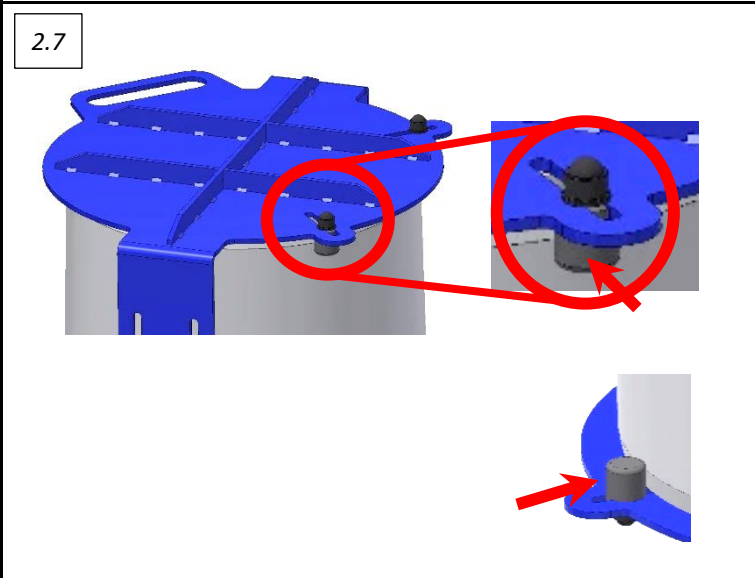
2.6 Removing the adjustment gauges

- a) Fold the 2 tension levers downwards.
- b) Remove the 2 adjustment gauges and store them on the standing column, above the dosing pump.



- c) Now fold the 2 tension levers upwards again until they snap into place.

Notice! Make sure that the drum is firmly clamped and fits tightly against the adapter ring.



2.7 Adjusting the stoppers

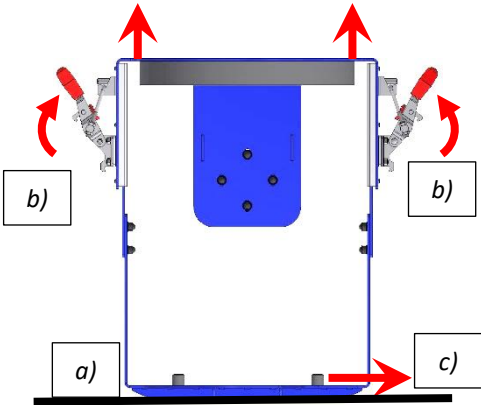
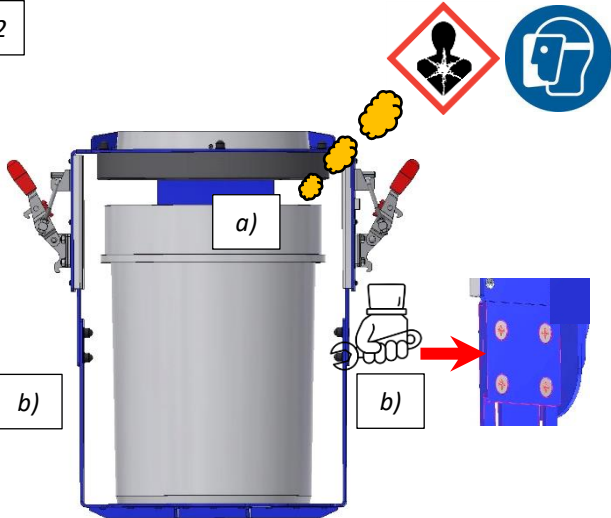
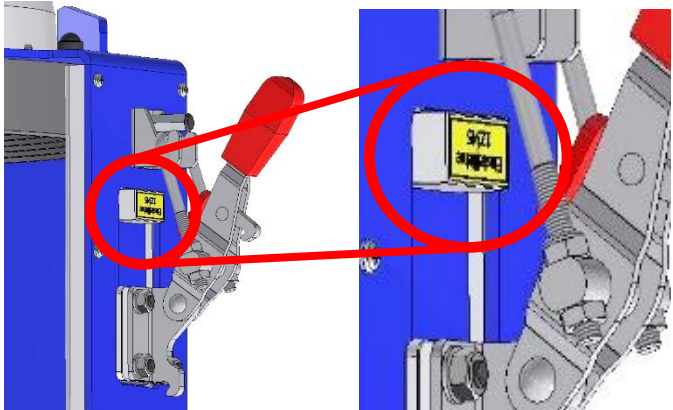
Adjust the 2 stoppers to the drum size. The stoppers must rest against the drum. Rotate the Multihopper device into the original position and remove the empty drum

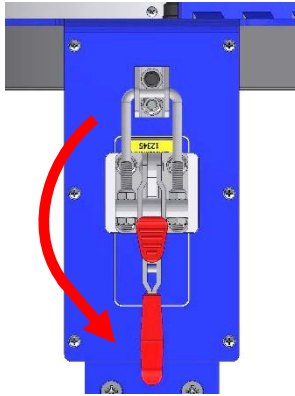
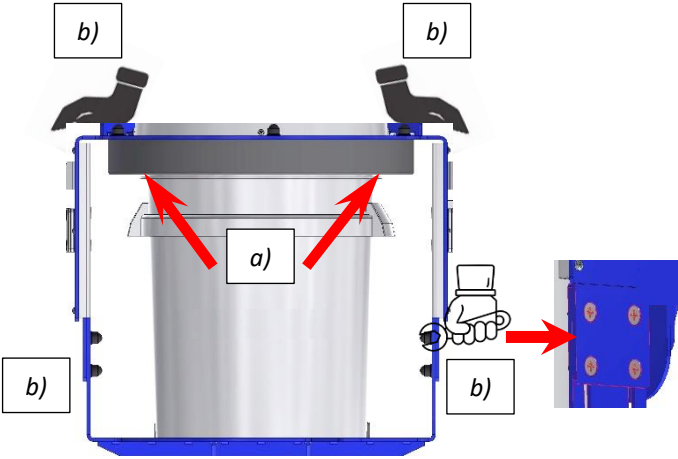
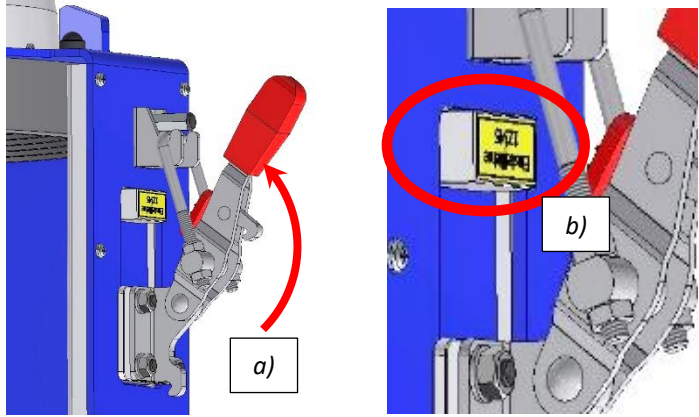

The adjustment to the drum size is completed.

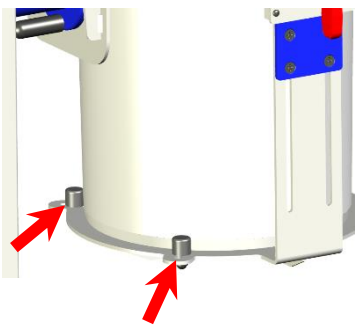
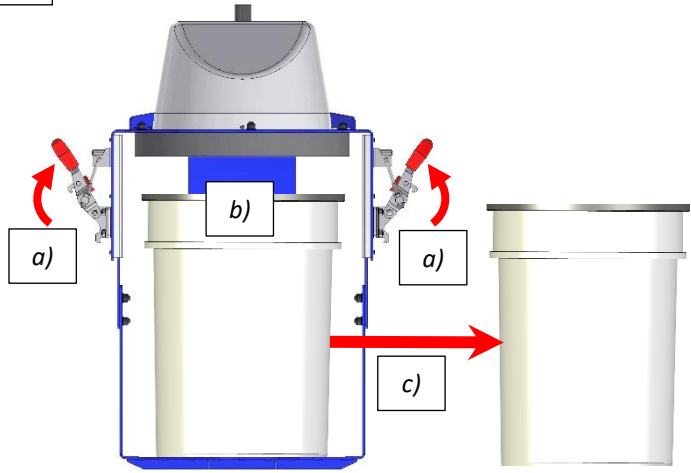
3 Adjusting the Multihopper - with full chlorine drum

The Multihopper is adjusted ex works to a specific type of chlorine drum. If another chlorine drum is used, an adjustment must be made to that particular chlorine drum.

Adjusting the Multihopper with an empty chlorine drum is easier than with a full chlorine drum.

<p>3.1</p> 	<p>3.1 Preparing the Multihopper</p> <ol style="list-style-type: none"> Place the Multihopper device on the floor Move the 2 tension levers upwards; the metal frame will move upwards Notice! Always move both tension levers simultaneously to avoid distorting the metal frame. Adjust the 2 stoppers to the outermost position
<p>3.2</p> 	<p>3.2 Loading the Multihopper</p> <p>Attention Corrosive! For the following tasks, personal protective equipment must be worn and the safety data sheets for handling chemicals must be observed</p> <ol style="list-style-type: none"> Place the full, closed chlorine drum in the Multihopper and remove the drum lid. Loosen the lateral screws, left and right, (2x4 pcs).
<p>3.3</p> 	<p>3.3 Inserting the adjustment gauges</p> <p>Insert the 2 magnetic adjustment gauges (included in the scope of delivery) into the recess of the two tension levers. The adjustment gauges are used as spacers for adjusting the metal frame. This provides the chlorine drum with the proper pretension.</p>

<p>3.4</p> 	<p>3.4 Clamping down the adjustment gauges</p> <p>Carefully move the 2 tension levers downwards until you feel a slight resistance. Do not move further downwards! Attention! If the tension levers are moved further against the resistance, the tensioning device may be damaged.</p>
<p>3.5</p> 	<p>3.5 Multihopper, adjusting the drum height</p> <ol style="list-style-type: none"> Centre the drum on the grooves of the grey adapter ring. Press the metal frame downwards and simultaneously tighten the lateral screws, left and right (2x4 pcs). This adjusts the metal frame to the drum height. <p>Check the correct fit of the drum in the adapter ring.</p>
<p>3.6</p> 	<p>3.6 Removing the adjustment gauges</p> <ol style="list-style-type: none"> Fold the 2 tension levers upwards. Remove the 2 adjustment gauges and store them on the standing column, above the dosing pump.  <ol style="list-style-type: none"> Now fold the 2 tension levers downwards again until they snap into place. <p>Notice! Make sure that the drum is firmly clamped and fits tightly against the adapter ring.</p>

<p>3.7</p> 	<p>3.7 Adjusting the stoppers</p> <p>Adjust the 2 stoppers to the drum size. The stoppers must rest against the drum.</p>
<p>3.8</p> 	<p>3.8 Remove the drum from the Multihopper</p> <ul style="list-style-type: none"> a) Fold the 2 tension levers upwards b) Close the drum with the original lid! c) Remove the full, closed drum from the Multihopper device. <p>Notice! The Multihopper is now adjusted to the new chlorine drum; continue with Item 1.3 on page 3</p>