

KOBOTS

KOBOT - 912, 925, 1225 & 1230

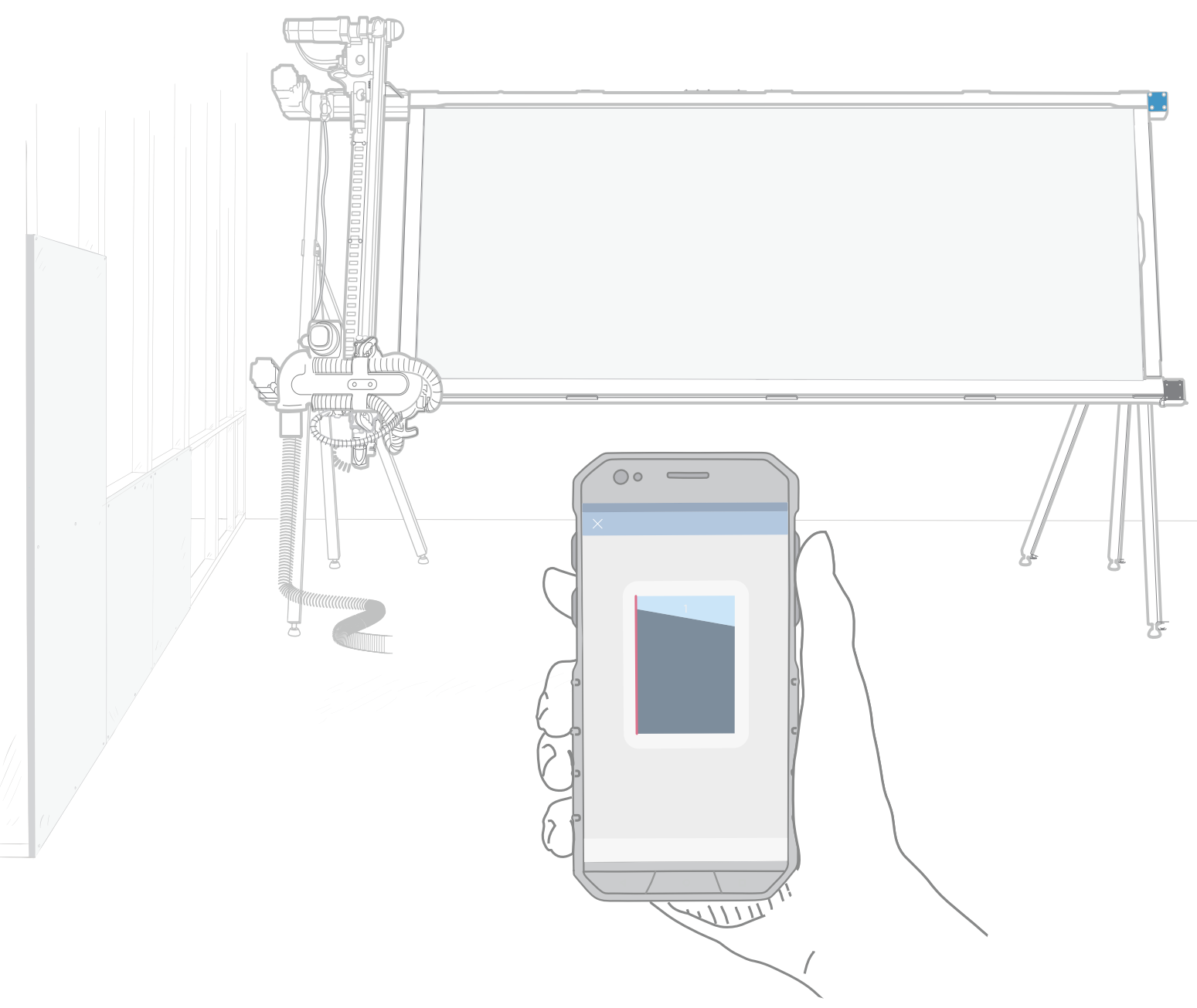


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Declaration of conformity

Manufacturer:

KOBOTS Company ApS

Lind Hansens Vej 13H

DK-5000 Odense C

I hereby declare that the following equipment:

Complies with relevant directives from the following harmonized standards:

- DS/EN ISO 19085-1:2021 Woodworking machines - Safety - Part 1: Common requirements
- DS/EN ISO 19085-3:2021 Woodworking machines - Safety - Part 3: Numerically controlled (NC/CNC) boring and routing machines
- DS/EN ISO 19085-4:2021 Woodworking machines - Safety - Part 4: Vertical panel circular sawing machines
- DS/EN ISO 4871:2009 Acoustics - Declaration and verification of noise emission values of machinery and equipment. SPL: 86.2 dBA / SWL: 101.6 dBA
- RoHS Directive 2011/65/EU of 21 July 2011

The standards mentioned above have been applied to the extent relevant to the application of KOBOTS - Cutting Robot.

5000-Odense C
7/7/2023

Location and date

Manufacturer's signature CEO - Christina Grigoriou Dalsgaard

Congratulations!

You have chosen a cutting robot from KOBOTS.

Your new machine, hereafter referred to as a machine or cutting robot, is designed to cut sheet materials to shape - easily, accurately and safely. The cutting robot is easily and simply operated via the KOBOTS app.

The cutting robot minimizes waste of material, increases productivity and improves the working environment in the form of better ergonomics and minimization of dust.

One of the important core values of KOBOTS is the minimization of dust. We designed the robot to do just that, and we're continuously developing the platform to make it even better.

Vacuum cleaner and hose are not included. We recommend KOBOTS H-class VACU for best results.

Safety instructions

When using the cutting robot, the safety instructions in this manual must always be followed to avoid the risk of electric shock, personal injury and fire. The machine may only be used by trained personnel. This document is under continuous revision. The latest version is available at www.kobots.com

The following pictograms are used in this guide:



Warning



Risk of jamming



Only use blade size Ø125 mm



Direction of the cutting blade

1. Wear appropriate personal protective equipment when necessary, including :



Wear protective goggles

Wear protective goggles if you are near the cutting robot while it is working.



Use gloves

Wear gloves when handling saw blades and raw material. Extra saw blades should be stored safely.



Use hearing protection

The sound level when processing different materials can vary. To protect yourself, always use hearing protection.



Wear a dust mask

Protect your respiratory tract if you are cutting materials that can generate hazardous dust.



Wear safety shoes

Protect your feet from any falling material.

2. Workspace

Untidy workspaces and workbenches invite injuries. Always keep the work area clean and tidy. Keep a safe distance from the machine when it is in motion. Place the machine in a stable position to eliminate the risk of tipping over.

3. Consider the impact on the working environment

Do not expose the machine to rain. Do not use the machine in damp or wet areas. Ensure good lighting around the work area. The machine must only be set up in places with protection from weather influences, such as rain, snow, windy weather, direct sunlight and moisture. Ensure that the floor area on which the machine is used is level, well-maintained and free of loose material such as e.g. shavings and leftover cut material. Make sure that the environment surrounding the cutting robot is not exposed to unnecessary dust and noise pollution.

4. Fire hazard

Do not use the Cutting Robot near or with flammable liquids or gases. Only use ABC and CO2 extinguishers.

5. Protect yourself from electric shocks

Never disassemble the electrical equipment, inspect cables and connectors for defects at each set-up and take-down. If faults are found, these must ALWAYS be rectified by KOBOTS before using the equipment. Using faulty equipment

can cause serious injury or death. Never use the equipment in wet or damp environments as this may result in a risk of electric shock.

6. Keep children away

Do not allow children to touch the machine's parts or extension cord. Children under the age of 16 must be supervised when using the cutting robot.

7. Store the cutting robot safely

When not in use, store the machine in a dry, high place, in a locked area, out of the reach of children.

8. Use the cutting robot as shown in the documentation

The cutting robot must not perform work for which it is not intended. Do not use the machine for purposes for which it is not intended, such as cutting materials not specified in this manual.

9. Protect yourself from unnecessary injuries

Handle materials safely to avoid unnecessary injuries. Read more about lifting, pulling and pushing on the Danish Working Environment Authority's website www.at.dk.

10. Dress appropriately

Do not wear loose clothing or jewelry. They can get stuck in moving parts. Long hair can pose a hazard when in contact with moving parts. Put your hair up, gather it so it doesn't pose a risk.

11. Do not abuse the cord

Never carry the parts of the cutting robot by the cord and do not pull the cord to unplug it from the socket. Do not expose the cord to heat, oil, pressure or sharp edges.

12. Check the waste board

The waste board is the board that is placed in the cutting robot as a cutting surface. Check the condition, position and thickness of the waste board. The waste board must be stable and must cover the entire cutting area. If necessary, cut one or more boards if a waste board the size of the cutting area cannot be achieved from a single board.

13. Ensure stable positioning of the workpiece

Always check that the workpiece is positioned correctly and is stable without tilting.

14. Disconnecting the power plug from the cutting robot

The electrical supply must ALWAYS be disconnected or switched off before unplugging the machine. This applies to motor connectors, angle grinder or vacuum cleaner plugs. Dangerous situations can occur (e.g. the cutting head can move) if the power connectors is unplugged with the power supply connected.

15. Remove the plug plug from the socket

Remove the power plug from the socket when the machine is not in use, before and during servicing and when changing accessories.

16. Avoid accidental starting, do not move around the cutting robot in assembled state

Do not move, push or lift the machine in assembled state.

17. Risk of crushing

Keep body parts away from the cutting robot when it is in motion.

18. Beware of the following

Do not use the machine when you are tired, have consumed alcohol or are otherwise under the influence of any kind of intoxicants.

19. Check the cutting robot for damage before plugging the cord into the power outlet

a. Before using the machine, check that the moving parts are working properly, are not jammed and that no parts are broken.

- b. Check that all parts are correctly fitted and fastened and that other factors that may affect operation are in order.
- c. If safety devices or other parts are found to be damaged, the machine must not be connected to the power supply.
- d. Parts found to be damaged must be repaired or replaced by an authorized service workshop, unless otherwise stated in the user manual.

20. Get your tool repaired by a KOBOTS certified workshop or staff

The cutting robot complies with the relevant safety regulations. To avoid danger, repairs to the machine may only be carried out by a KOBOTS certified workshop or personnel.

21. Intended use

Do not use the cutting robot for anything other than cutting sheet material that a 125mm. blade with teeth can cut. Do not cut into metals, masonry or anything else.

Do not connect any appliances to the machine's control box other than the vacuum cleaner (Max 1500W).

22. Dust collection

The KOBOTS cutting robot is intended for use with a vacuum cleaner with manual start, i.e. by setting the vacuum cleaner's start button to on, so that it can be turned on and off by connecting and disconnecting the supply to the vacuum cleaner. To check this, plug the vacuum cleaner into an outlet with a power switch, set the start button to start and turn the outlet's power switch on and off. If the vacuum cleaner starts and stops, it can be used with the cutting robot.

Connect the vacuum cleaner to the machine and set the vacuum cleaner start button on before cutting. At start-up, the machine will briefly switch on the vacuum cleaner so that the user can hear that it is working correctly. If the vacuum cleaner does not turn on, do not use the machine until the fault has been rectified.

The vacuum cleaner bag fills up quickly

The cutting robot collects so much dust that bags fill up quickly. It is therefore our recommendation to use a vacuum cleaner with a cyclone or a cheaper bag collection system to avoid spending a lot of money on expensive machine-specific bags. For optimal dust filtration, the industrial vacuum cleaner used must be class H or better; it is recommended to use KOBOT's specially developed H-class VACU with Longopack© for maximum suction and dust-free bag handling.

There will be a need for periodic cleaning of the machine to achieve optimal performance, as hoses and joints can clog, these must therefore be checked and cleaned at least at each bag change. However, it is recommended to check once a week.

Fixing reduced suction capacity or a clogged system

Take a pencil or other pointy object and release a potential dust blockage in the connection piece on the cutting head and use the loose, flexible hose to collect any loosened dust.

Note! Vacuum cleaner and hose are not included.

23. Protective devices and cutting blades

Do not remove cut material or other parts of the workpiece from the cutting area while the cutting robot is running. Wait to remove the cut material until the cutting head is in the resting position. Notify your dealer of any defects on the machine, including protective devices or cutting blades, immediately after the defects have been discovered. Check that the blade cover is fully closed and locked properly. Do not use the machine without the protective device in place, working properly and well maintained.

24. Additional safety regulations for the KOBOTS cutting robot

- Only use the electrical voltage specified on the rating plate
- Check that all locking levers are tightened before starting.
- Check that all locking mechanisms on the connectors are intact and locked correctly before starting the machine.
- Periodically check that the air intake of the motor is free of dust and chips.

- Read the user manual carefully before using equipment with the machine. Incorrect use of equipment can result in personal injury and material damage.
- Keep body parts away from the cutting blade and cutting area when the power is connected.
- Do not cut sheets smaller than 400x400mm
- Never attempt to stop the cutting blade by pressing an object against the rotating cutting blade. This can lead to serious injuries.
- The wooden frame must be replaced for holes larger than 6 mm.
- The wooden frame must be original KOBOTS products.
- The socket outlet to which the robot is connected must be earthed and insured with a minimum of 16A at 230V and RCD protection.

25. Safety regulations for blades and blade changes

- Choose a cutting blade that suits the material to be cut. The machine's angle grinder runs at a speed of 12000 revolutions per minute. Therefore, only use cutting blades that can withstand this speed.
- It is recommended to use blades manufactured according to DS/EN 847-1 for best results and safety.
- Only use cutting blades with a diameter of 125 mm. See the technical specifications for the cutting blade.
- Do not use grinding discs and flap discs or other inappropriate cutting blades.
- Always install the cutting blade according to the manufacturer's instructions for correct installation.
- Never use damaged cutting blades.
- Check that the cutting blade and flanges are clean. Tighten the nut securely using only your fingers, i.e. without the use of tools.
- Check that the cutting blade is always sharp based on the material to be cut.
- Do not use the machine if the blade guard is not in place. The faceplate must be rotated fully into place and the thumbscrew screwed all the way down into its designated hole.
- Keep your hands away from the cutting blade.
- The machine must be disconnected from the power supply before replacing the cutting blade or performing maintenance work.
- Do not lift the blade guard when the cutting robot is powered.

26. Residual risks

Even if the work is carried out in full compliance with standards and legal regulations, it cannot be ruled out that other risks may arise when using the cutting robot. The cutting robot and all other system components meet the applicable safety requirements. Nevertheless, certain residual risks cannot be excluded even if the machine is used as intended and all instructions are followed. Even outside of KOBOTS defined risk areas, residual risks cannot be excluded. People around the machine must be extra attentive so that they can react immediately in case of malfunction, accident or breakdown, etc. All persons in the immediate proximity of the cutting robot must be instructed in the risks that may arise during use. In addition, please note that the safety regulations in these operating instructions must be followed when using the cutting robot.

These risks can include:

- Hearing damage
- Risk of accidents with the exposed parts of the rotating saw blades
- Risk of injury during blade replacement
- Risk of getting your fingers caught when opening the guard
- Risk of pinching fingers during assembly and disassembly
- Risk of physical overload when setting up and taking down the machine
- Health risk from inhalation of dust generated during cutting

27. The following points must be observed during transportation and handling of the cutting robot:

- Before transportation
Check that all locks on storage/transport boxes are closed properly.

- Transportation
The cutting robot must not be transported in assembled condition. All parts, as well as the phone and charger, must be packed and placed correctly in the storage/transport boxes provided. See assembly instructions for the correct positioning of the machine's components.
- Worn-out tools and the environment
When disposing of your cutting robot, protect the nature. Do not dispose of the machine with general waste. Return the machine to a collection point in your local area or to a KOBOTS service workshop.

28. Cleaning

In order for the cutting robot to function satisfactorily throughout its lifetime, it is important that it is treated correctly and cleaned regularly.

The cutting robot may only be cleaned by vacuuming. Do not use any cleaning agents, compressed air, etc. as this can transport dust to unintended locations on the machine.

Magnetic strips, guides, blade guard and wooden strips should be kept dust-free by vacuuming daily.

Dust should be vacuumed off the wooden frame daily. All guides must be vacuumed, i.e. the top and bottom guides, the gantry and the guides in the head of the blade guard. Especially magnetic strips on the horizontal and vertical guides require regular vacuuming.

In addition, the shield on the blade guard by the angle grinder must be rotated away and dust must be vacuumed out of the guard.

ATTENTION! All cleaning must be done with the electrical connection disconnected, i.e. without voltage.

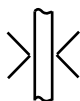
Warranty

Warranty and right of complaint according to KOBOT's general terms and conditions of sale and delivery.

Technical data



Blade Outer diameter: 125 mm.
Inner diameter: 22.23 mm. RPM:
12000 rpm



Board thickness Max: 25 mm



Power 230V / 1400W +
1500W



Vacuum cleaner (requirement)

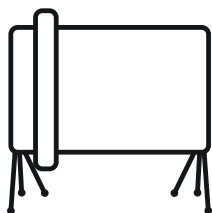
- H-class
- Vacuum: min. 29.5 kPa/3000 mmVs
- Airflow: (measured) min. 166m³/h.
- Max. power: 1500W.
- Power plugs must be grounded.



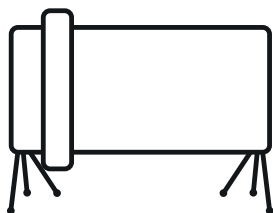
Sound level See chart below

KOBOT 1225	
Declared noise emission values in accordance with ISO 4871:1996	Operation
A-weighted sound power level L_{WA} , in dB	101,6
Uncertainty, K_{WA} in dB	4
A-weighted sound pressure level L_{pA} , in dB at operator position	86,2
Uncertainty, K_{WA} in dB	4
<p>The measurement was performed in accordance with ISO 19085-1:2021, Annex F, for:</p> <p>Sound power ISO 3746:2010 with measurement accuracy grade 3</p> <p>Sound pressure: ISO 11202:2010 with measurement accuracy grade 3</p> <p>Note: Measurement of sound power and sound pressure with measurement accuracy grade 3 is chosen because the machine has a highly variable environment, therefore a measurement with resulting higher uncertainty is considered adequate and the resulting higher uncertainty contributes to the environmental considerations.</p>	
<p>Operating conditions during measurements: Machine: KOBOT 1225, Material: Fermacell 12.5mm, Blade: Ø125mm 8T, Feedrate: 5 m/min.</p>	
<p>If the stated emission values are to be verified, the measurements must be carried out using the same method and the same operating and installation conditions as those stated.</p>	
<p>WARNING: The specified noise emission values are only valid if the same operating and installation conditions are used. Other operating and installation conditions, such as a different work process, can lead to higher noise emission with the risk of underestimation.</p>	
<p>WARNING: The stated noise emission values are not exposure levels. Although there is a correlation between emission and exposure levels, noise emission values cannot be used to reliably determine whether additional precautions are necessary. Factors that affect the actual level of exposure include the actual work process, characteristics of the workspace and other adjacent sources of noise in operation.</p>	

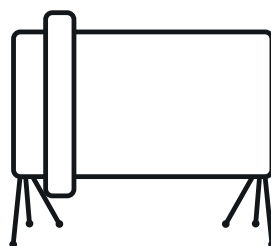
The robot's workspace



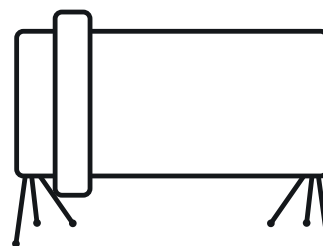
KOBOT 912
900x1200 mm



KOBOT 925
900x2500 mm



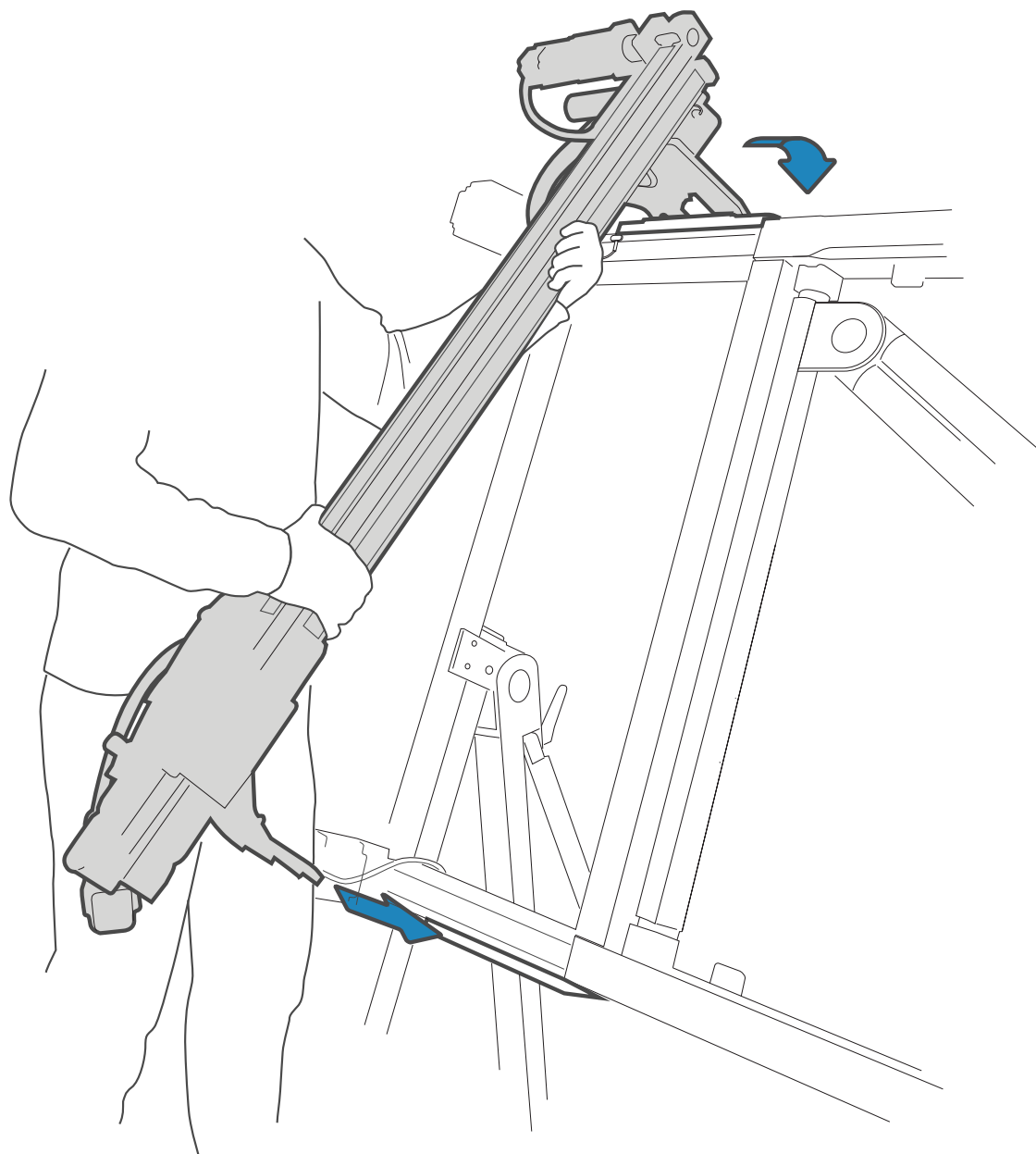
KOBOT 1225
1250x2500 mm



KOBOT 1230
1250x3050 mm

ASSEMBLY INSTRUCTIONS

Applicable for Kobot 912,925,1225 & 1230

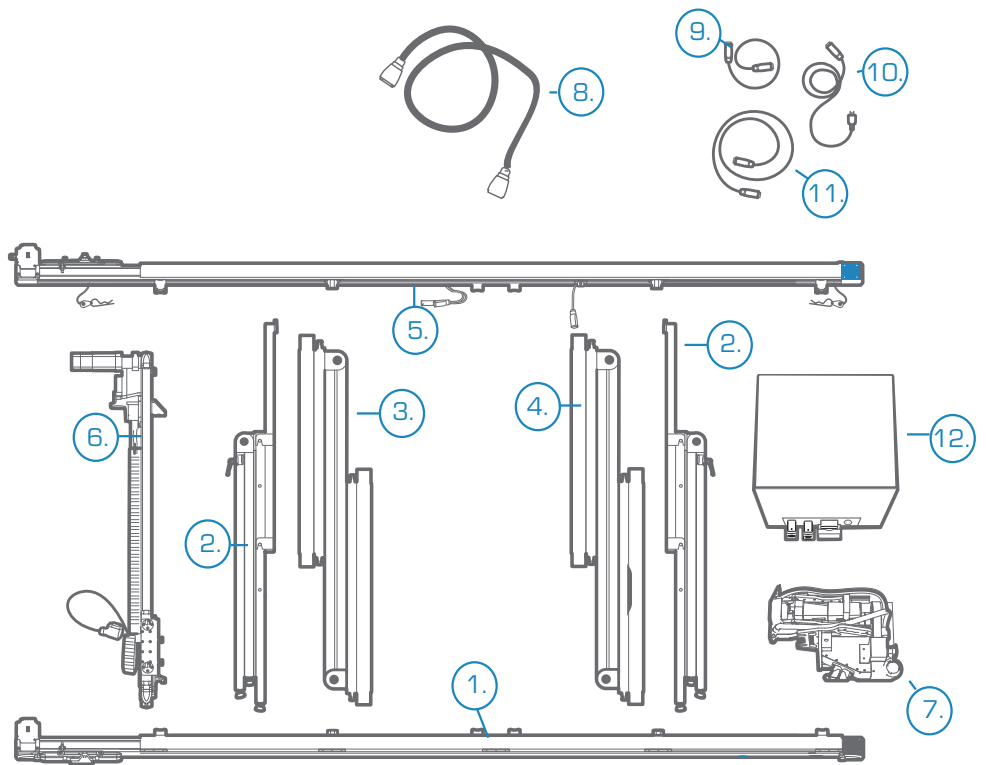


When setting up and dismantling the cutting robot, make sure to use correct lifting techniques and take appropriate breaks to avoid overloading.

- The KOBOT 912 can be set up by one person.
- Two people are required to set up the KOBOT 925, 1225 & 1230.

KOBOT 912 parts

- 1. Bottom guide (marked in black)
- 2. Right + left leg
- 3. Left N-frame
- 4. Right N-frame
- 5. Top guide (marked in blue)
- 6. Gantry
- 7. Cutting head
- 8. Main cable
- 9. Motor cable
- 10. Power cable
- 11. Bottom guide for control box cable
- 12. Control box

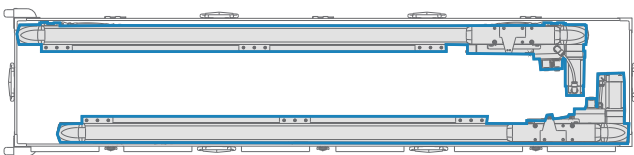


Transport and storage of the cutting robot's components.

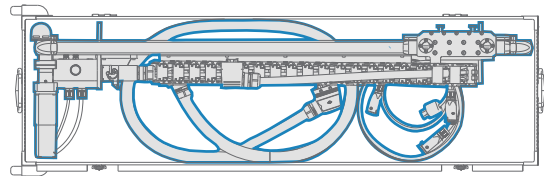


The cutting robot may only be stored and transported in the original boxes.

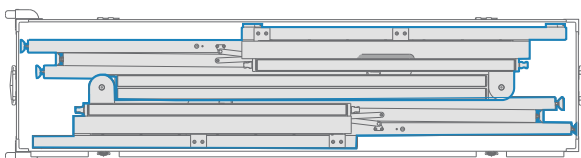
Box 1 Top guide(5), bottom guide(1)



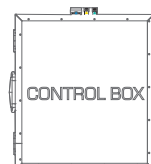
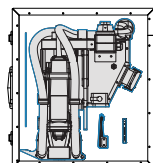
Box 3 Gantry(6), cables(8)(9)(10)(11)



Box 2 N-frame(3)(4), legs(2)(2)

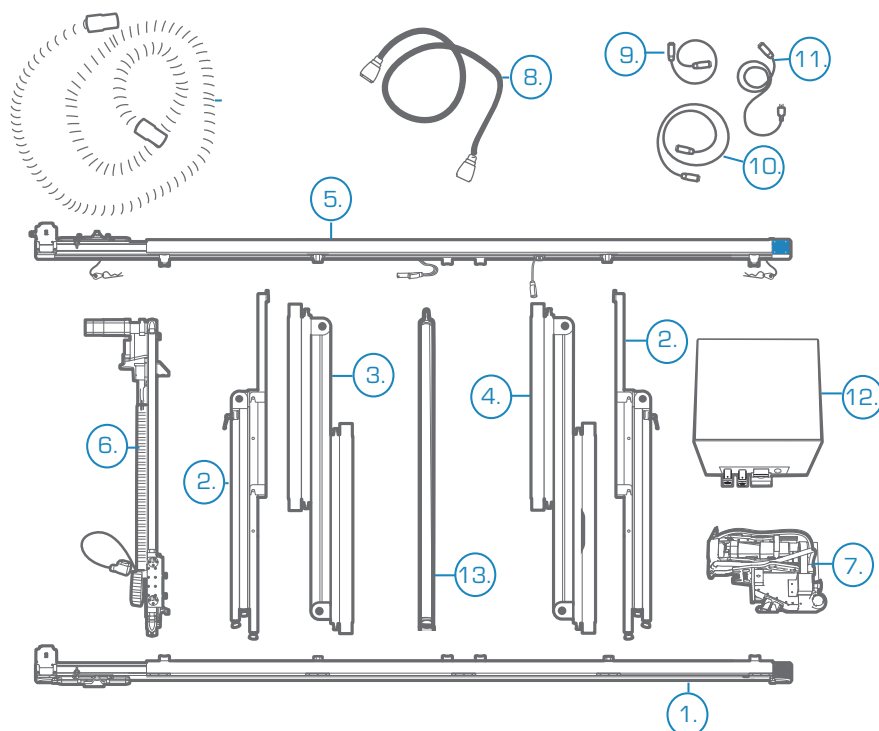


Box 4 Cutting head(7), **Box 5** Control box(12) phone, charger



KOBOT 925, 1225 & 1230 parts

1. Bottom guide (marked in black)
2. Right + left leg
3. Left N-frame
4. Right N-frame
5. Top guide (marked in blue)
6. Gantry
7. Cutting head
8. Main cable
9. Motor cable
10. Power cable
11. Bottom guide for control box cable
12. Control box
13. (1230) Support leg for frame

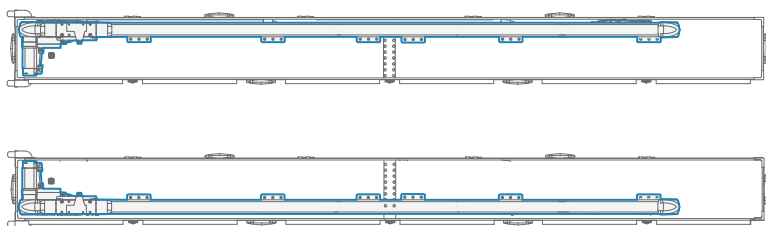


Transport and storage of the cutting robot's components.

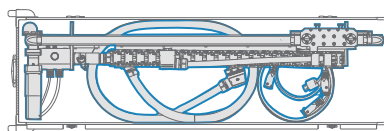


The cutting robot may only be stored and transported in the original boxes.

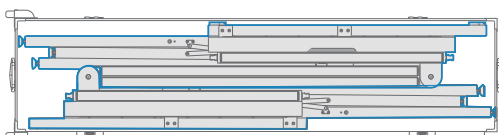
Box 1 Top guide(6), bottom guide (1)



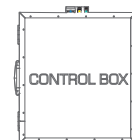
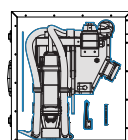
Box 3 Gantry(7), cables(8)(9)(10)(11)



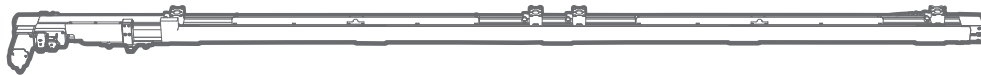
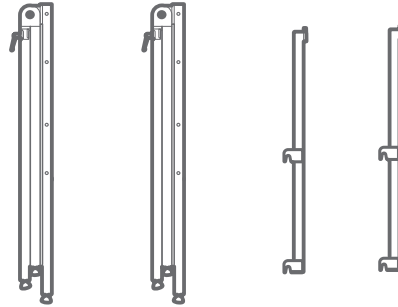
Box 2 2 x N-frame(4)(5), 2 x legs(2)(3)



Box 4 Cutting head(8), **Box 5** Control box(13) phone, charger



Parts are found
in box 1 and 2

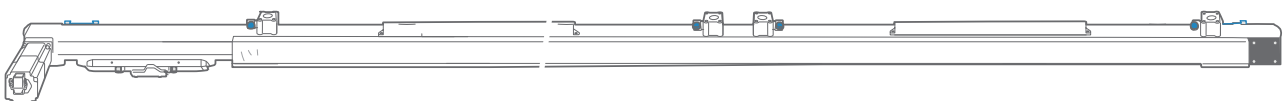
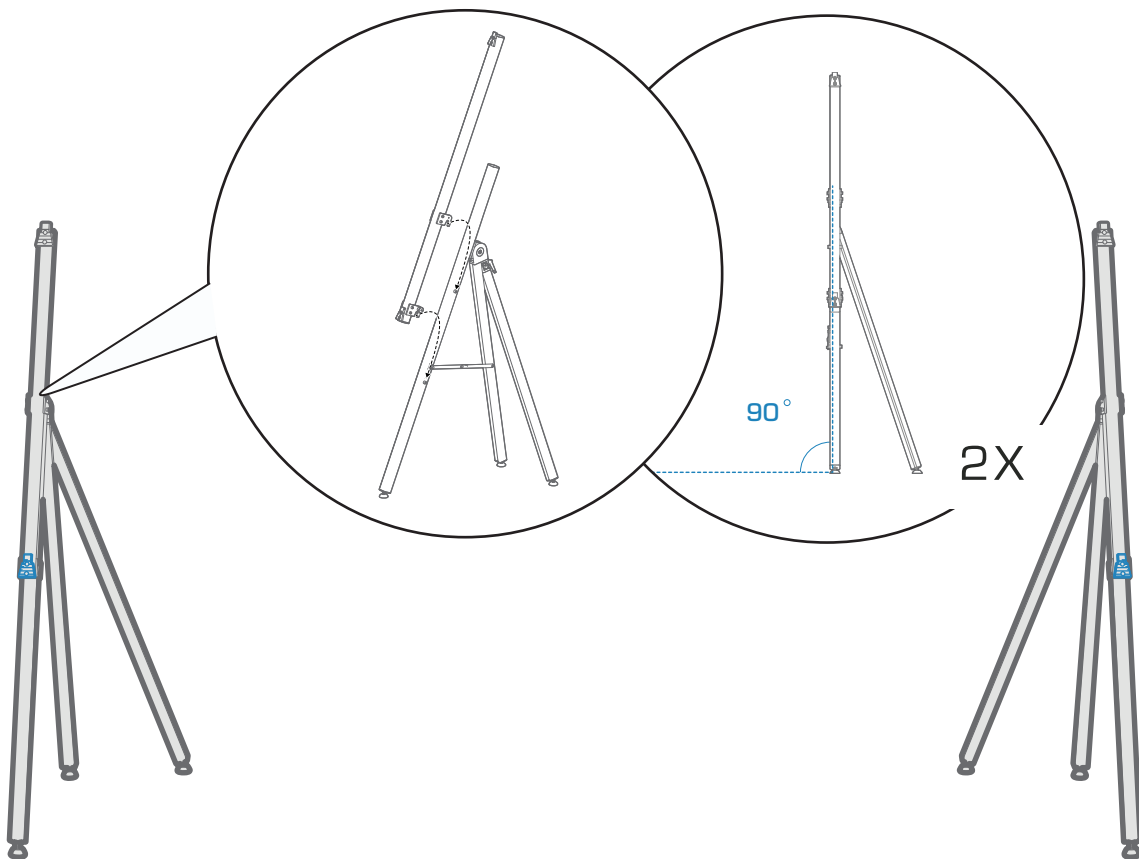


1.

Place the bottom guide with the motor on the left side on the flat floor where the cutting robot is to be assembled.

2.

Open the two support legs. The legs must be placed approximately so that the fittings on the bottom guide and legs are aligned



CAUTION!

Be careful not to damage the magnetic strip when handling the guide. See the section on Maintenance and daily operation to see the location of the magnetic strip.

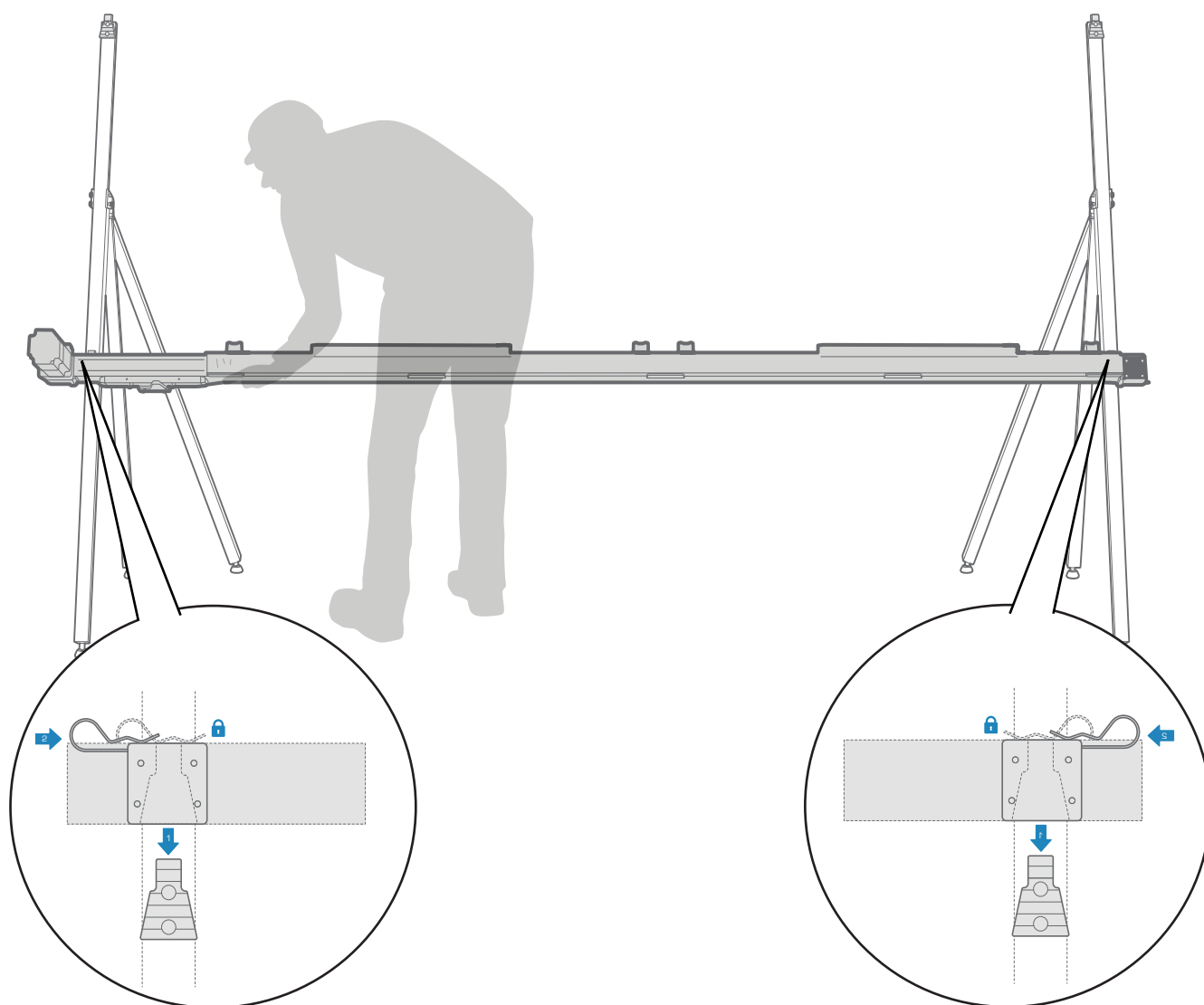
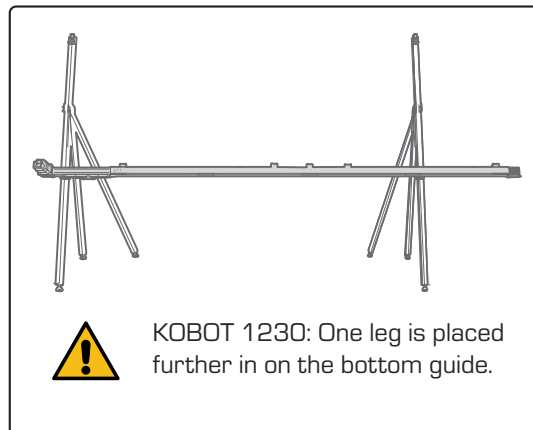
**CAUTION!**

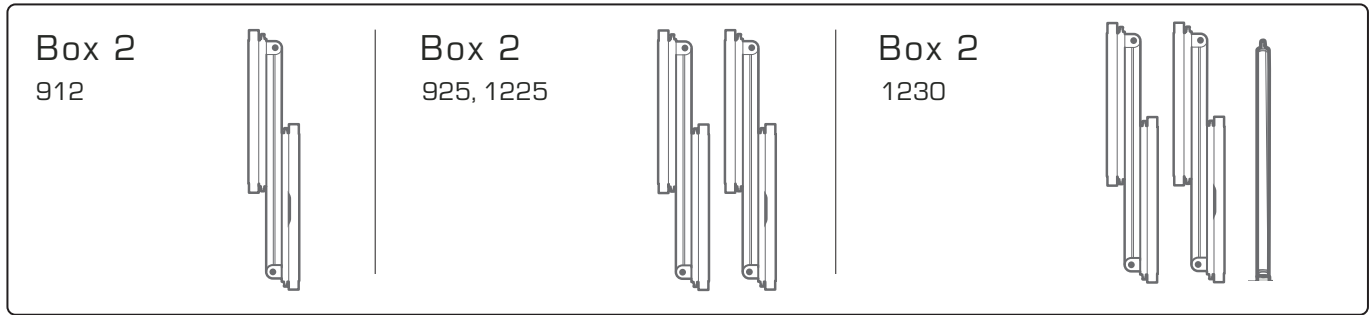
Be careful not to damage the magnetic strip when handling the guide. See the section on Maintenance and daily operation to see the location of the magnetic strip.

3.

Attach the bottom guide. The bottom guide is installed first on the motor side (left) as it is the heaviest. Then install the right side of the bottom guide. It may be necessary to move the right leg to make the coupling fit. Once the bottom guide is installed, check that both support legs are securely on the floor.

Lock in place by inserting a split at the top of the bracket. The split must face upwards (vertically).

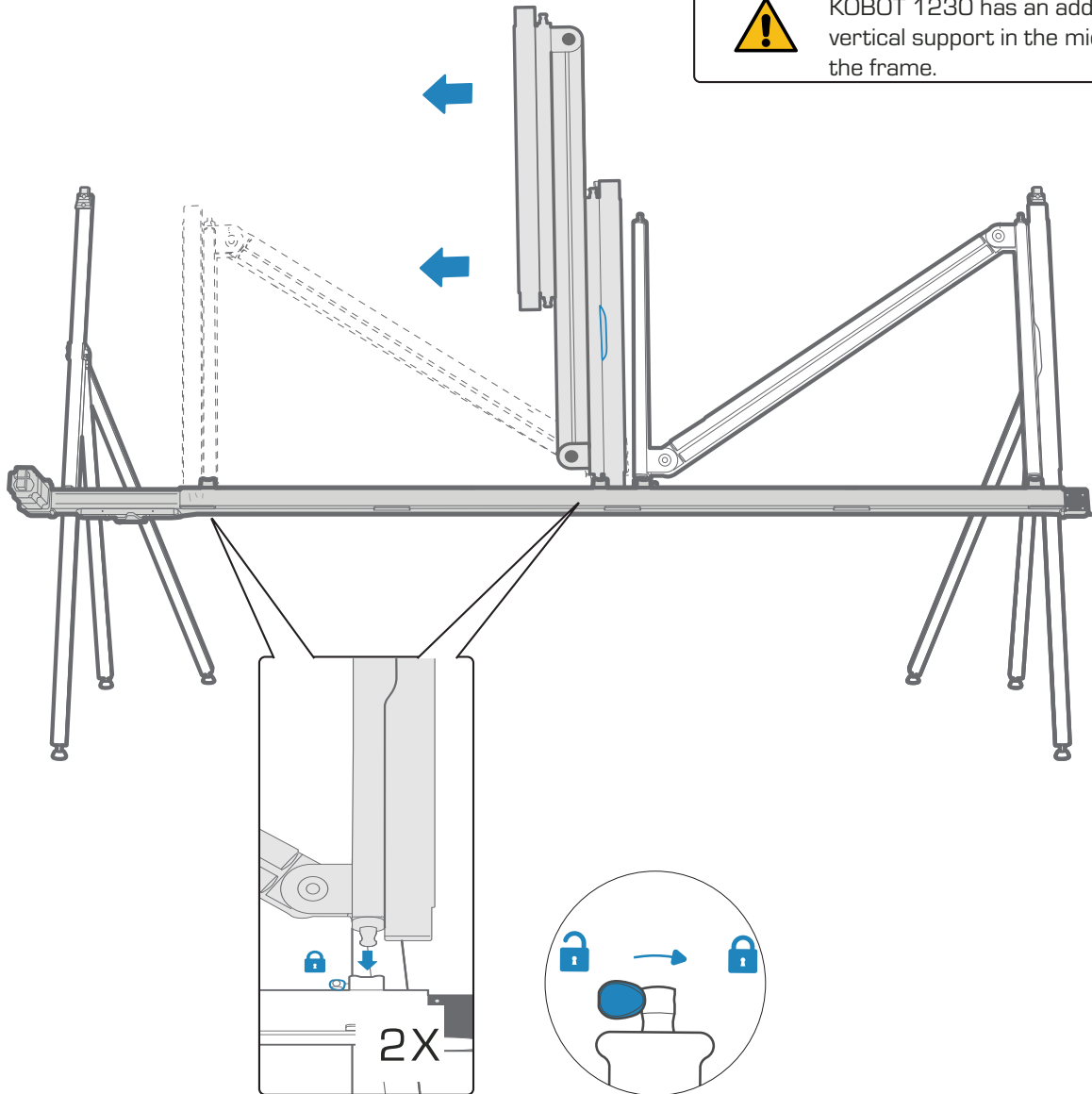
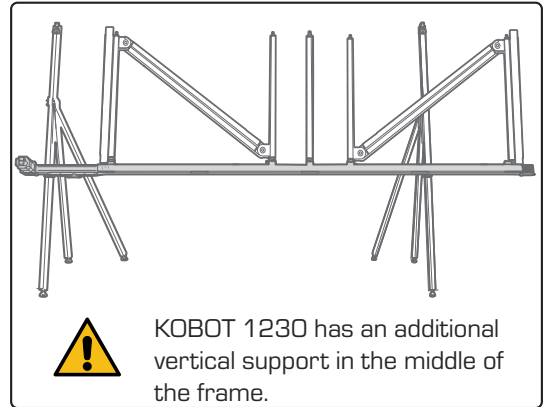




4.

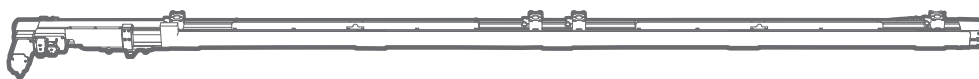
Place the N-frame in the quick couplings and pull the frame to the left to form an "N".

Lock the N-frame by turning the blue piece on the quickcouplings on both sides of the N-frame.



Lock the quick-couplings.

Box 1



5.

Install and lock the top guide at all points.

(Two quickcouplings on N-frame, may need to be aligned during assembly).

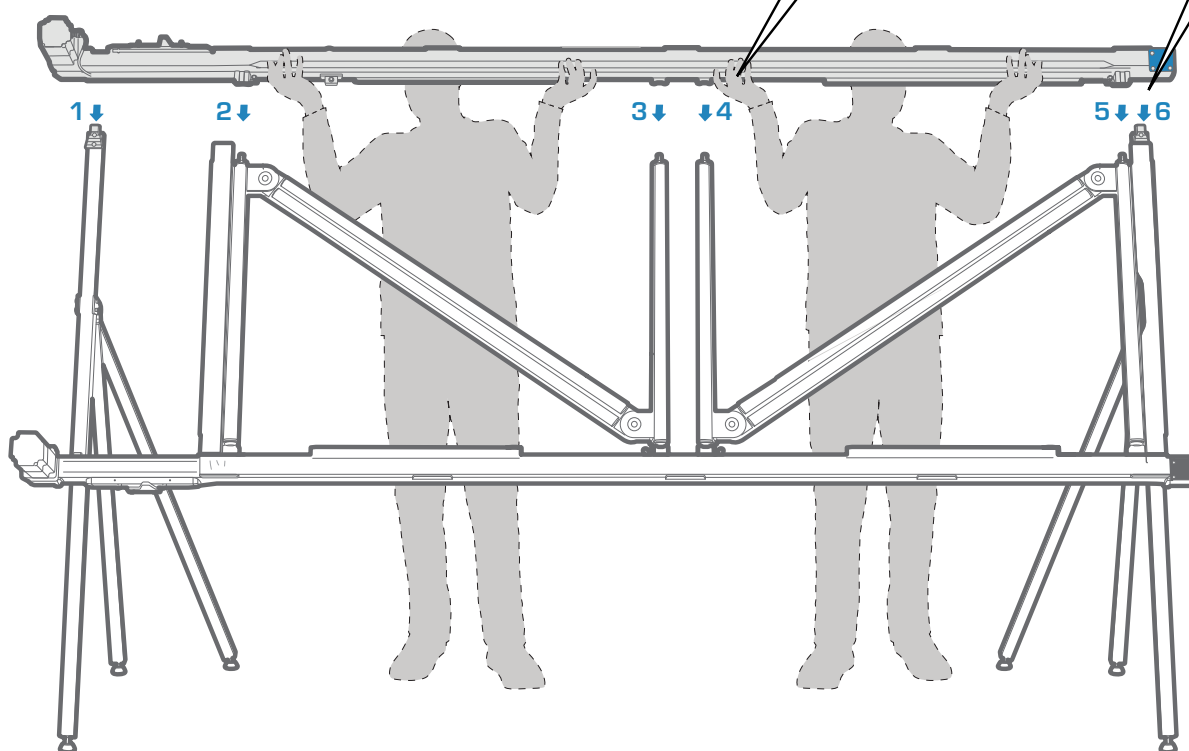
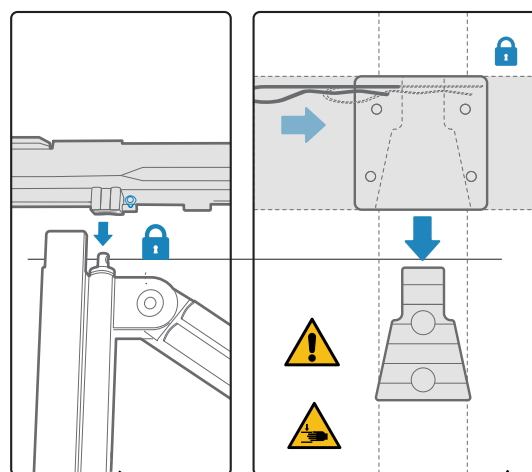
Once the top guide is installed, check that both support legs are securely placed on the floor.



CAUTION! Be careful not to damage the magnetic strip when handling the guide. See the section on Maintenance and daily operation to see the location of the magnetic strip.

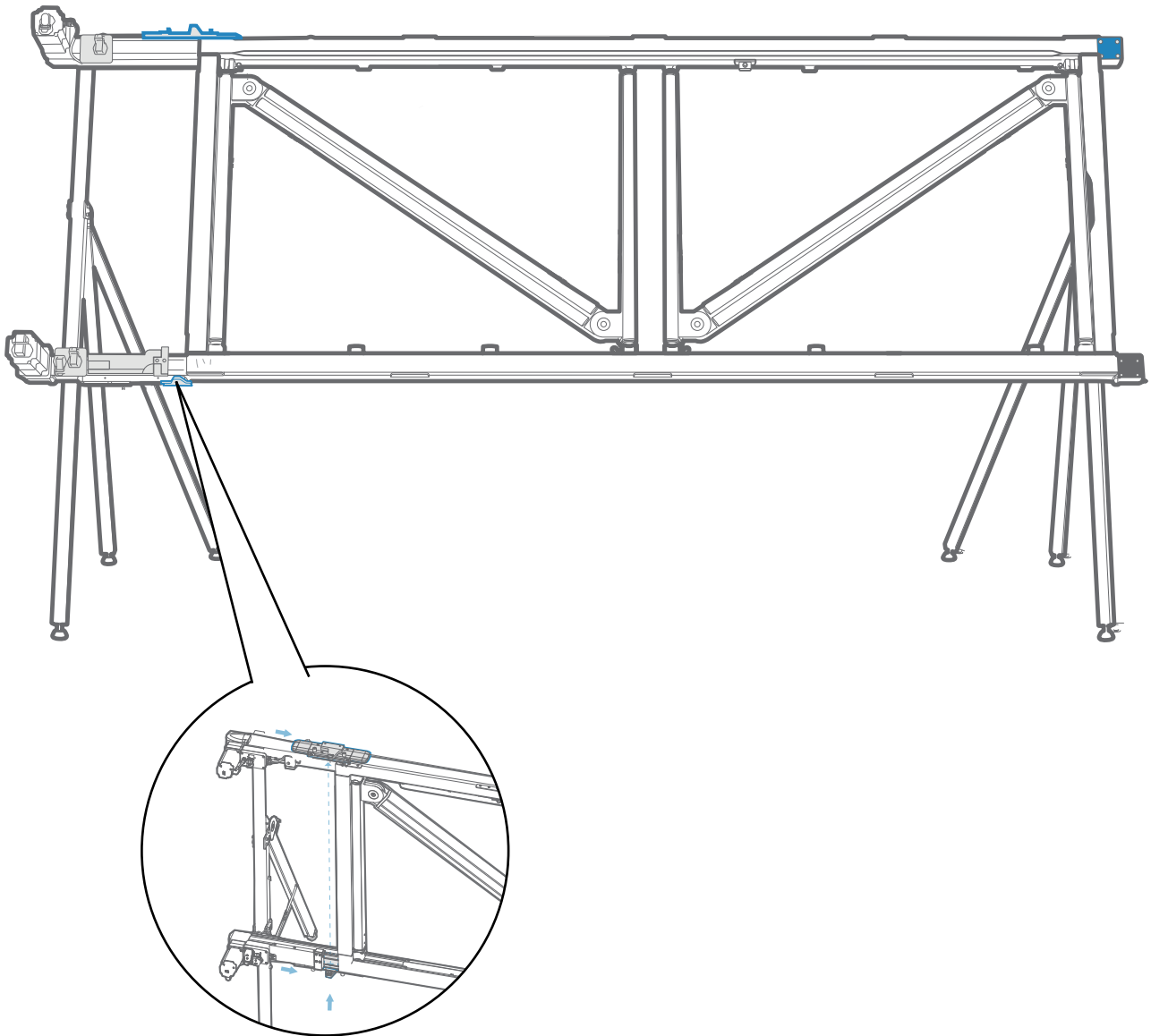
Lock the quick-couplings.

The ends are locked with a split that must lie down (horizontally).

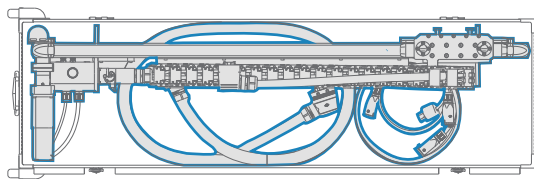


6.

Slide the carriage into the hole between the calibration block and the wooden frame so that the hinge on the carriage is visible. Make sure the carriages on the top and bottom guides are positioned parallel to each other, about 35 cm from the motors.



Box 3

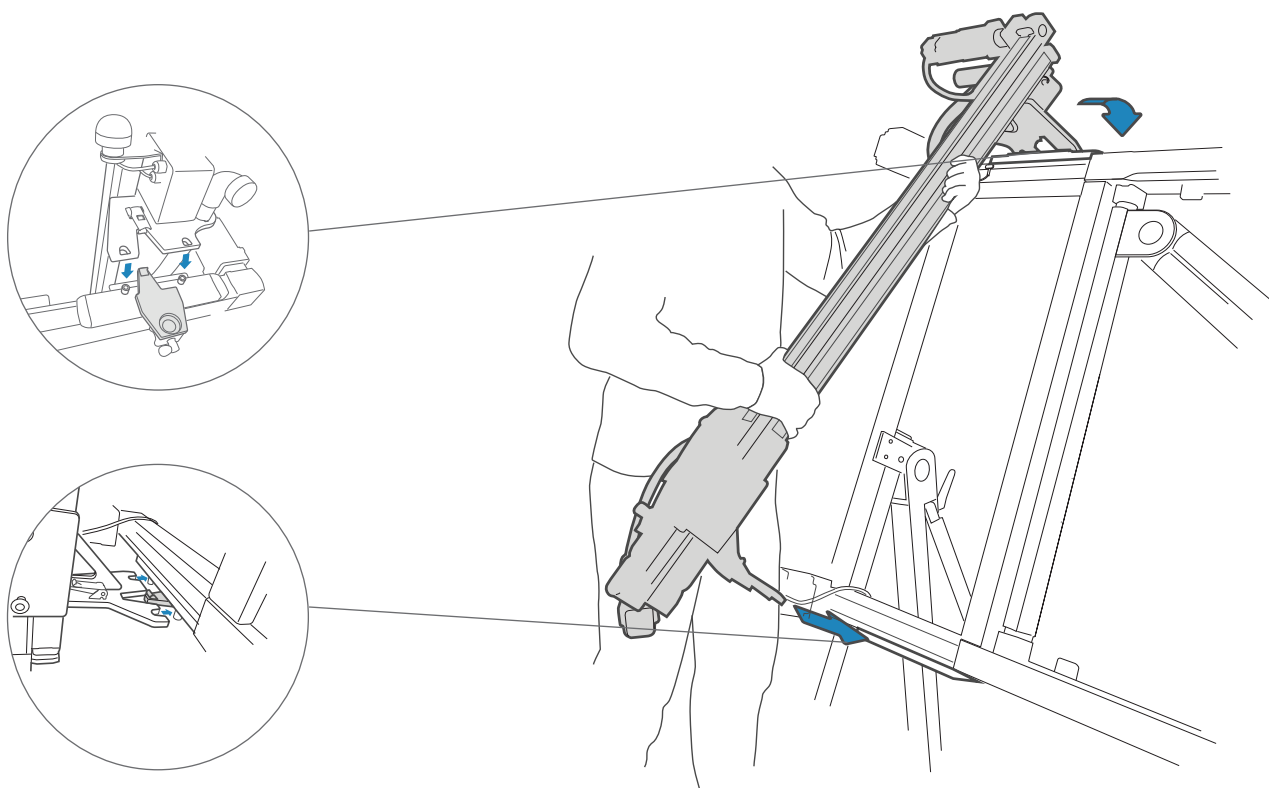


7.

Attach the gantry from top to bottom.



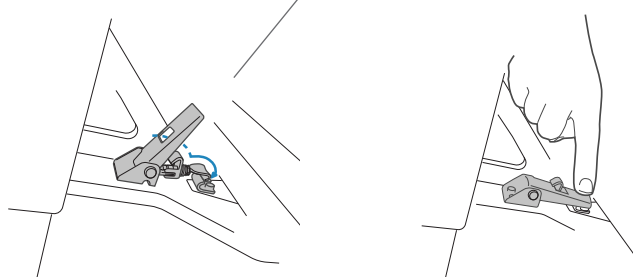
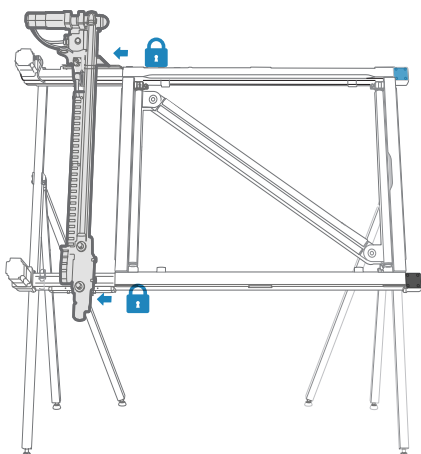
CAUTION! Be careful not to damage the magnetic strip when handling the guide. See the section on Maintenance and daily operation to see the location of the magnetic strip.



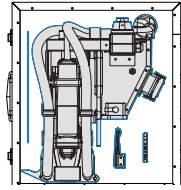
Lock the gantry's toggle latches at the top and bottom. Be careful not to tighten them too hard. Must be able to be loosened without the use of tools.



The KOBOT 1230 has one toggle latch located on the underside

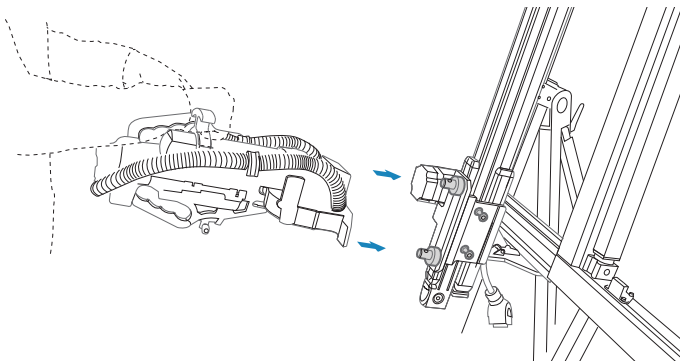


Box 4

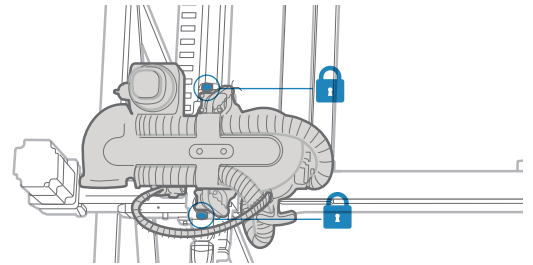


8.

8.a Attach the cutting head.
Skærehovedet påsættes.



8.b Lock the two blue quickcouplings of the cutting head.

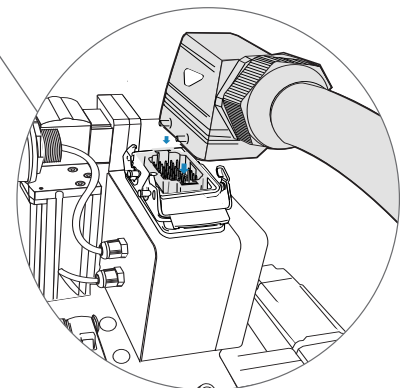
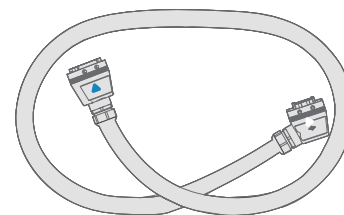
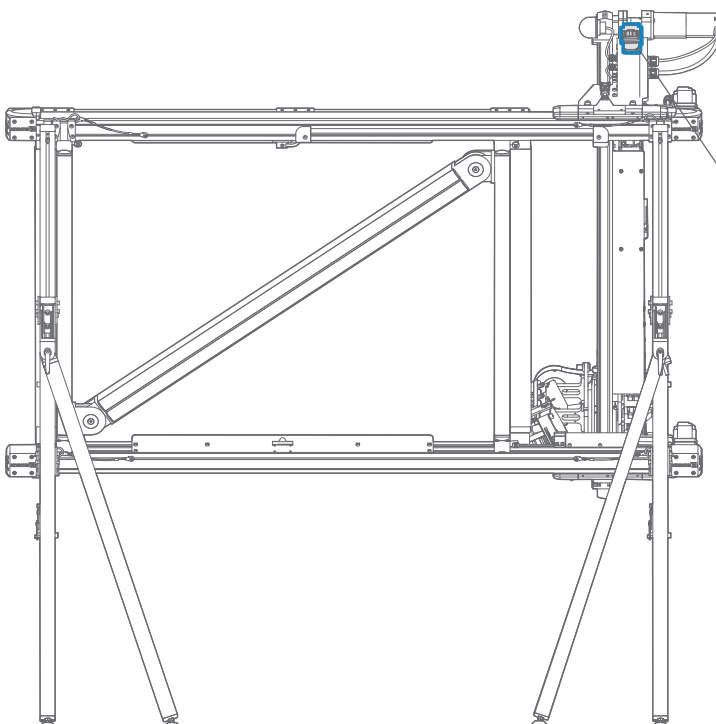


9.

The main cable is connected from the back, on top of the mounting box. Note that color markings must match. Lock the safety brackets.



Ensure that connectors are plugged completely parallel and without excess force. For a more detailed description, see the section on Maintenance and daily operations.

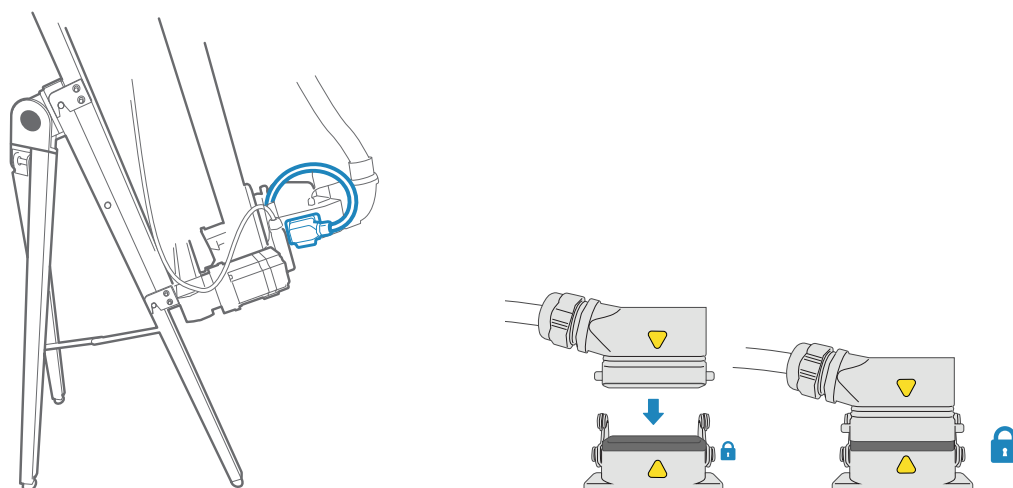


10.

Connect the power plug to the cutting head. Note that color markings must match. Lock the safety brackets.



Ensure that connectors are plugged completely parallel and without excess force. For a more detailed description, see the section on Maintenance and daily operations.

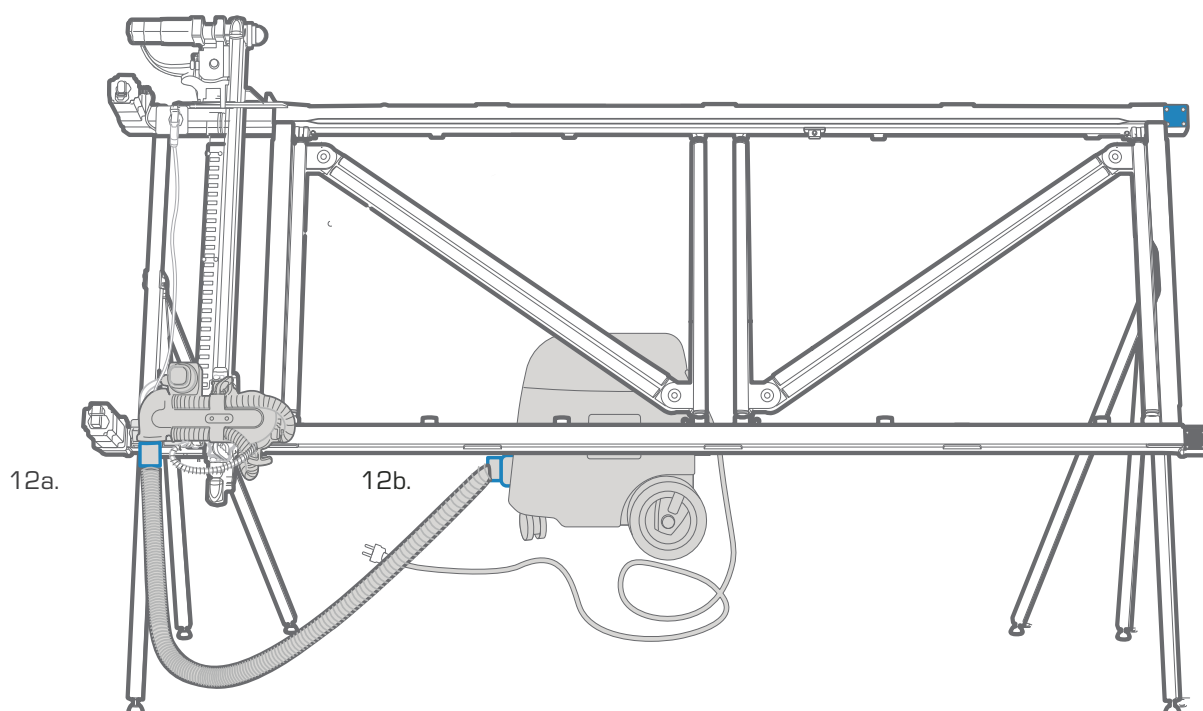


11.

11a. Connect the vacuum cleaner hose to the cutting head.
11b. Connect the vacuum cleaner hose to the vacuum cleaner.




Pay attention to whether the vacuum cleaner hose can move freely in the work area.



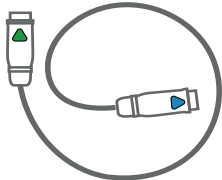
12

12a. Connect the motor cable and lock the connector. Note that color markings must match.

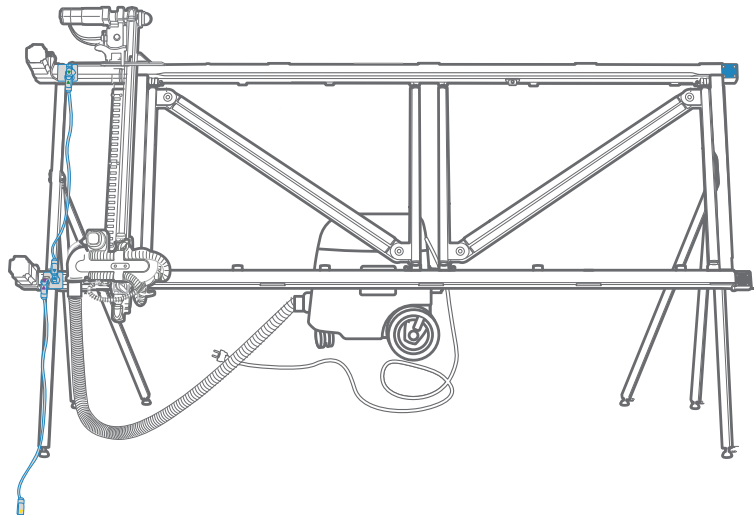
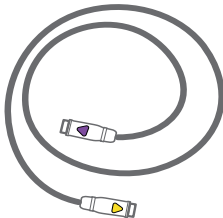
12b. Connect the bottom guide cable and lock the connector. Note that color markings must match.

 Ensure that connectors are plugged completely parallel and without excess force. For a more detailed description, see the section on Maintenance and daily operations.

12a



12b.



13.

Insert a waste board. The waste board acts as a cutting surface.

The waste board must be 12.5 mm thick, dimensionally stable and suitable for the blade/material being processed.

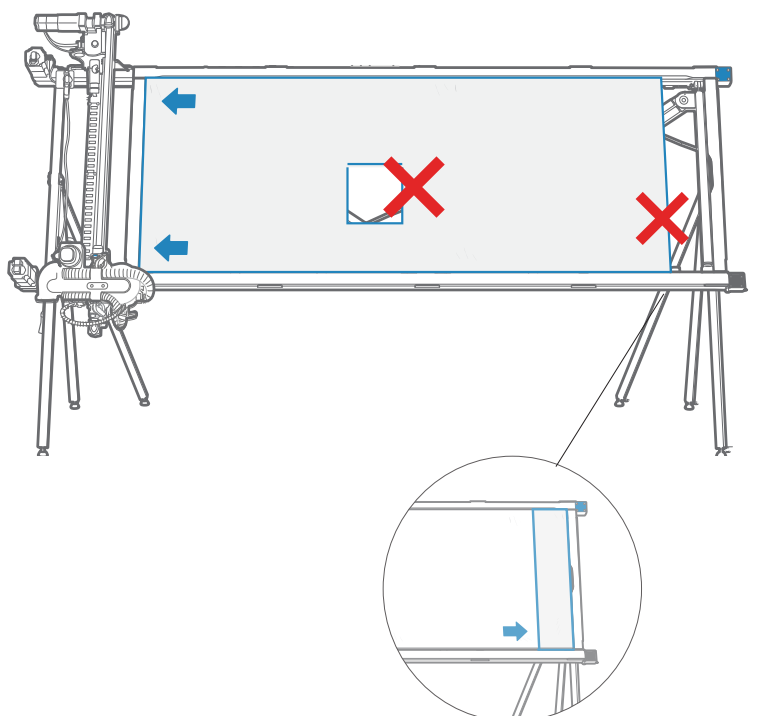
The waste board can be made of the same material as the stain.

The waste board must cover the entire area.

If necessary, cut one or more panels if a waste board the size of the cutting area cannot be achieved from a complete panel.

Add-on pieces should be placed on the left, as indicated by the illustration.

Possibly, the edge guard must face out.

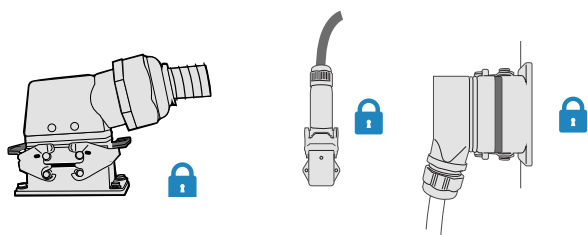


14.

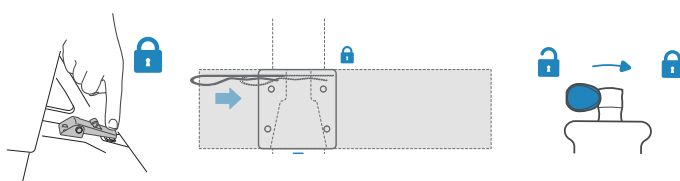


WARNING! Always follow the safety instructions and applicable regulations. The checklist **MUST** be reviewed before connecting the power plug to the cutting robot.

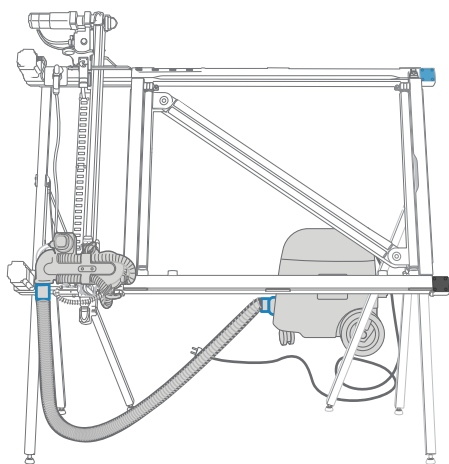
14a Are all electrical connectors on the machine properly connected and locked?



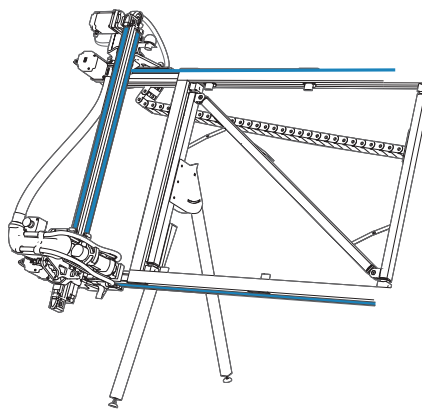
14b Are all toggle latches, splits and quick couplings locked correctly?



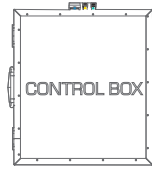
14c Check that the vacuum cleaner is connected correctly.



14d Check that all magnetic strips are intact and correctly positioned on the gantry, top guide and bottom guide. If errors occur, see the section on maintenance and daily operation.



Box 5



15.

Connector 1: Power connector from vacuum cleaner to control box.

Connector 2: Main cable from control box to cutting robot.

Connector 3: Cable from bottom guide to control box.

Connector 4: Power connector from the mains to the control box.



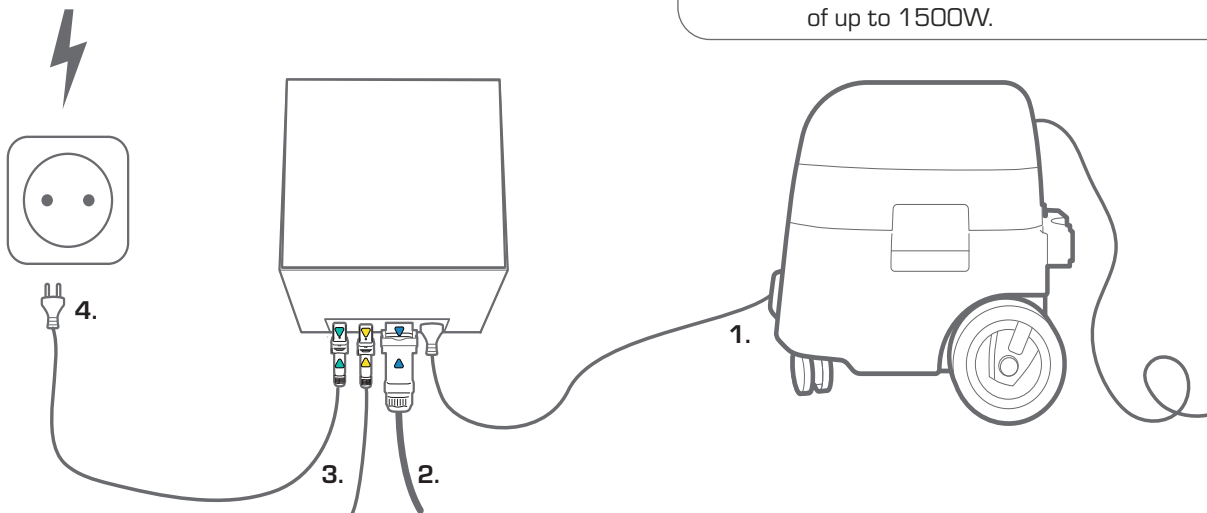
Vacuum cleaner must be connected to the machine's control box



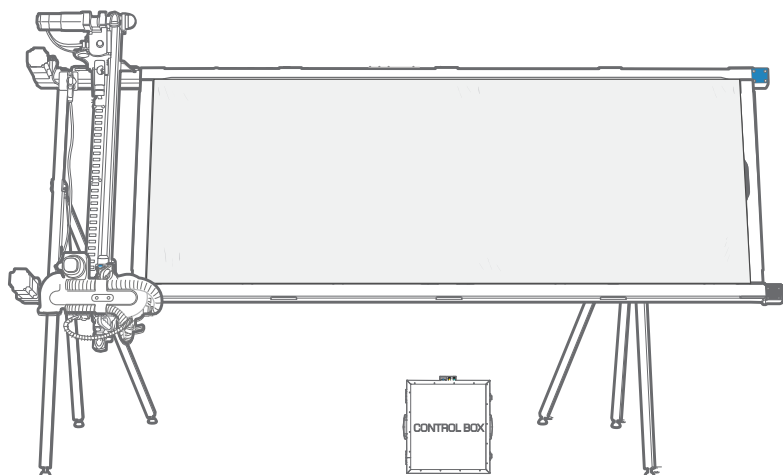
Pay attention to whether the main cable can move freely in the work area.



Max power consumption
Can be connected to vacuum cleaners with a total power consumption of up to 1500W.



KOBOT 1230 MUST have the control box located in the center of the cutting area under the machine.



16.

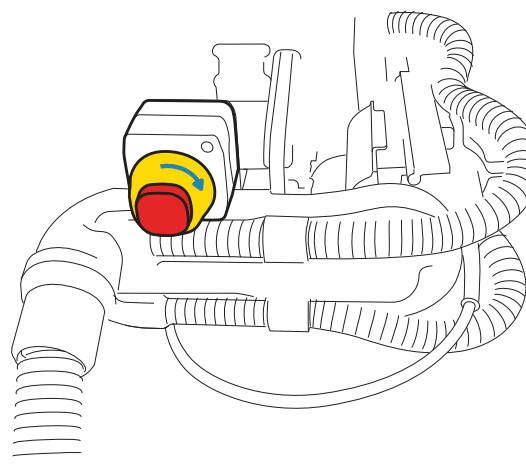
Activation of emergency stop.

The emergency stop is activated by the emergency stop button on the cutting head. The emergency stop function causes an immediate stop of motors, cutting tools and vacuum cleaner.

Emergency stop must not be used as a regular stop or pause button during operation. Use the start/stop button for this.

Deactivation of emergency stop.

Deactivate the emergency stop by rotating the yellow ring to the right (clockwise).



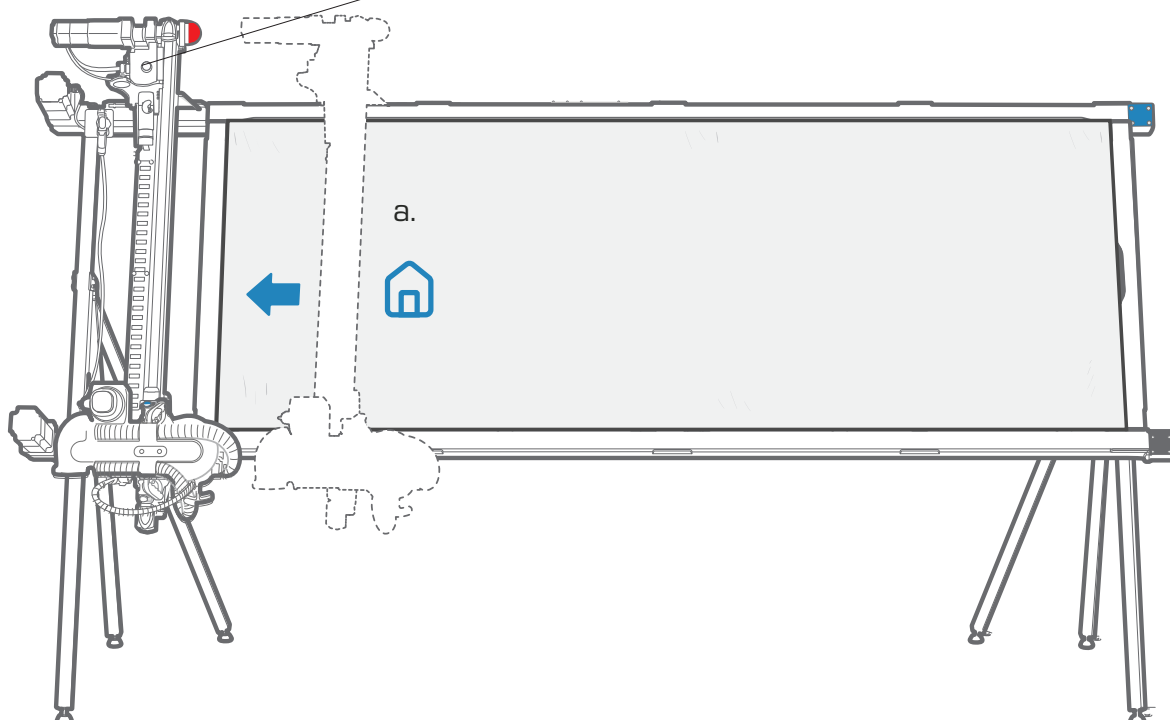
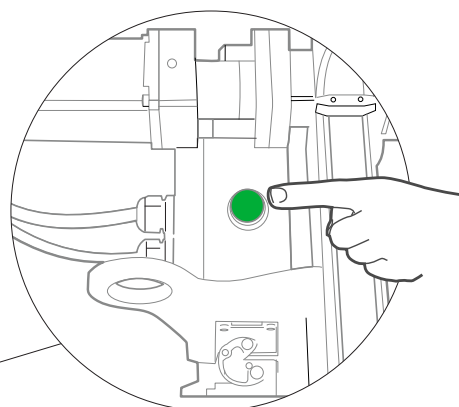
17.

Start-up

The cutting robot's control button is located at the top of the gantry. Find more information about this in the control button section.

When the red light in the machine's light tower flashes quickly, press the control button.

The light tower now changes to a slow green flash and the machine moves to its start position.

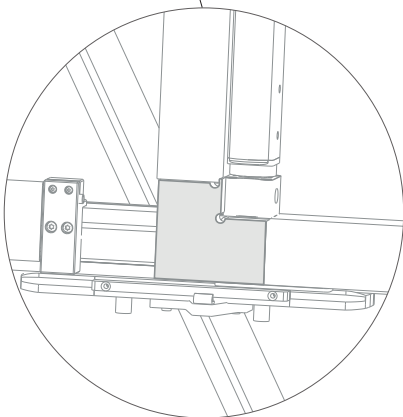
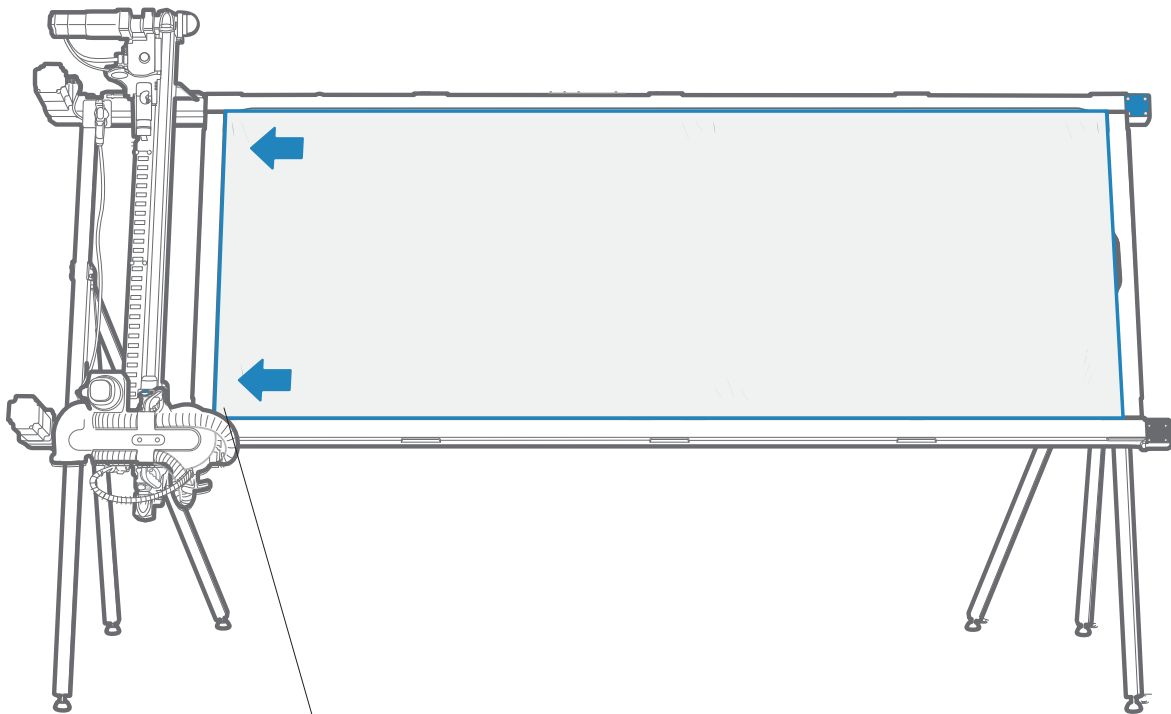


18.

Place the board to be cut. The board should be flat against the bottom wooden strip and pushed all the way to the left towards the O-point.

ATTENTION! Gypsum boards are cut with the back side out as standard, as overcutting is then done on the back side.

Therefore, if you insert the board faced out in the machine, you need to change from "back side out" to "front side out" under Cutting side in the app.



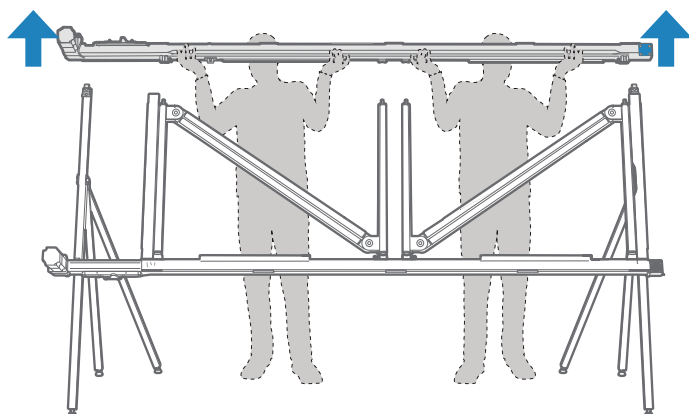
The corner of the O-point block is the starting point for all cuts. If the block is moved, cuts will no longer fit and the cutting robot must be recalibrated by KOBOTS.

19.

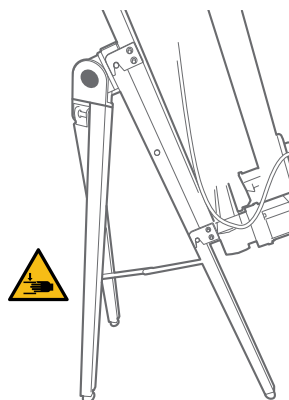
Disassembling the cutting robot

Disassembly of the cutting robot is done in reverse order of assembly. Pay attention to the following instructions:

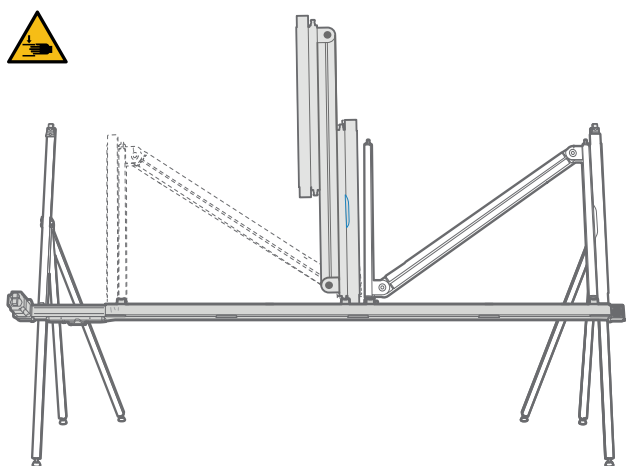
19a Guides are lifted on both sides simultaneously.



19b Risk of pinching at the support legs and hinge



19c N-frame is lifted perpendicular from the bottom guide. There is a risk of crushing when the N-frame is lifted up.



19b Always turn magnetic strips away from the bottom of the boxes.



20.








Control button

Status	Action	Output
Not home	Single press	Home machine - the first time after start-up (when the machine has been switched off), the home position must be found via installed sensors. Home position is in the bottom left corner.
Motor off	Single press	Turn on the power to the motor.
Job in queue & homet	Single press	The machine starts the job
Driving	Single press	Stops where it is.
Errors	Long press - 5 sec	Resets errors, if any.
Standby	Long press - 10 sec	Restarts the machine.

21.

Light tower

The cutting robot is equipped with a light tower that can light up in 3 different colors, each with a meaning. Below are the meanings of the different colors:

Red light	Blink	Meaning						
	Constant	Error: See error handling						
	2 times/sec.	Motors off						
	10 times/sec.	Pending homing						
Yellow light	Blink	Meaning						
	Constant	Machine makes a sound, counts down in 5 seconds and then runs						
Green light	Blink	Meaning						
	Constant	The machine is running and moving						
	5 times/sec.	<table border="1"> <thead> <tr> <th>Ready</th> <th>Task in queue</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>No</td> </tr> <tr> <td>Yes</td> <td>Yes</td> </tr> </tbody> </table>	Ready	Task in queue	Yes	No	Yes	Yes
Ready	Task in queue							
Yes	No							
Yes	Yes							
	10 times/sec.							
No lights		Emergency stop or switched off						

MAINTENANCE & DAILY OPERATIONS

Cleaning

To ensure stable operation and long service life, the vital functions of the cutting robot must be kept dust-free. This is best done by using the vacuum cleaner brush which can be attached to the end of the vacuum cleaner hose when it is removed from the cutting head. The brush can hang on the side of the cutting head with a magnetic mount when not in use. The vacuum cleaner can be turned on from the app.

Important places to vacuum: (watch video by scanning QR code)

- Magnetic strip
- Sensors
- Wooden strips
- The cutting head

Magnetic strip



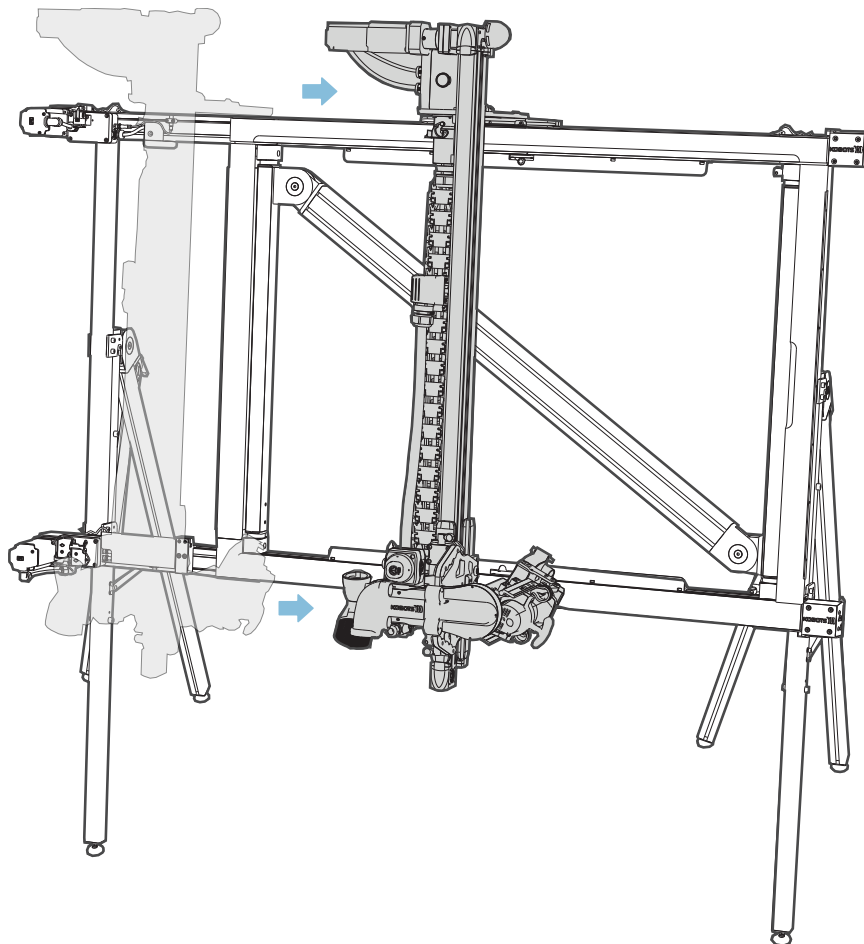
Wooden strips



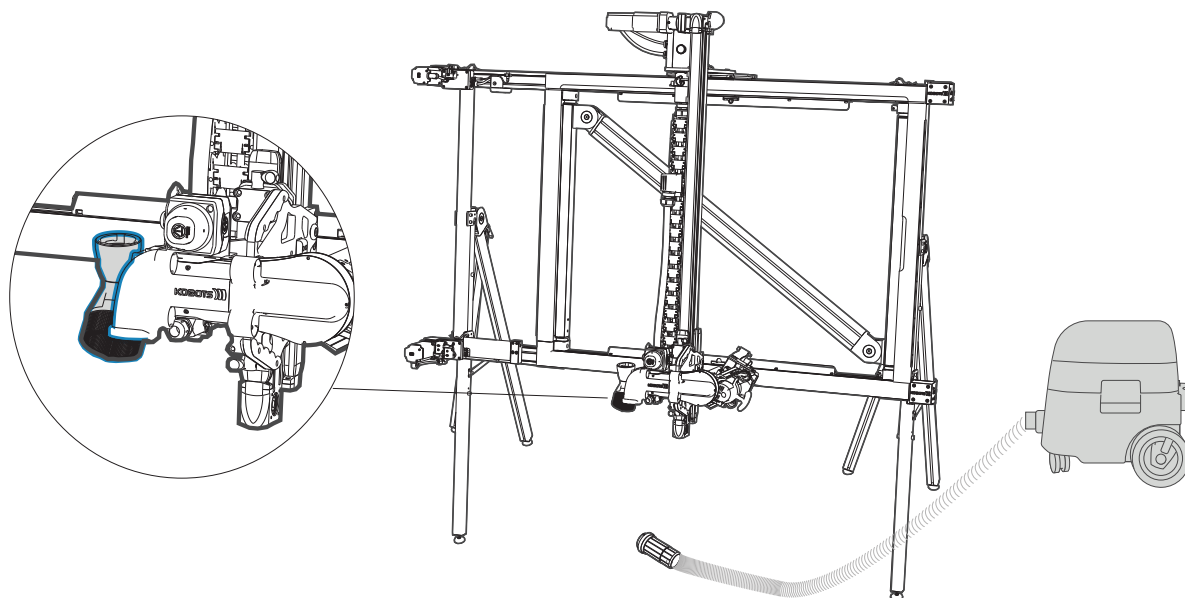
The cutting head



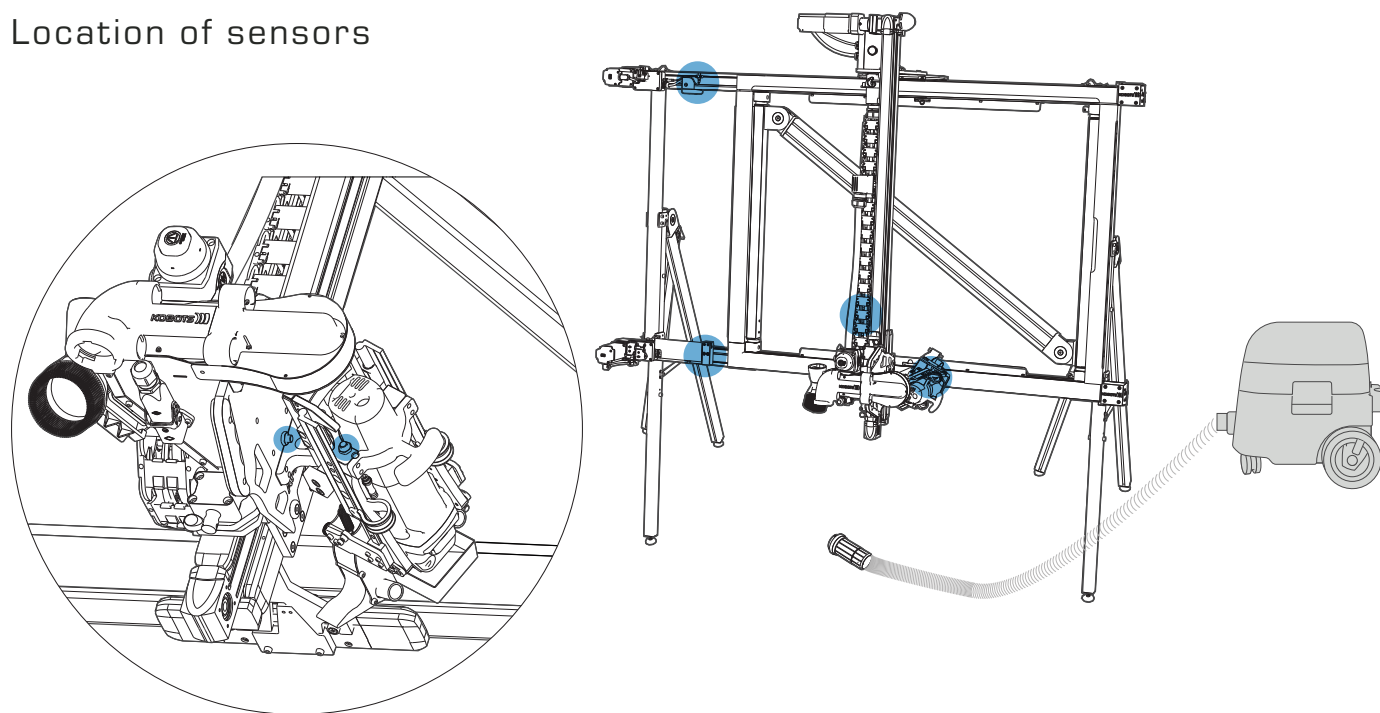
Preparing the KOBOT 912/925 for vacuuming



Vacuum cleaner brush head location

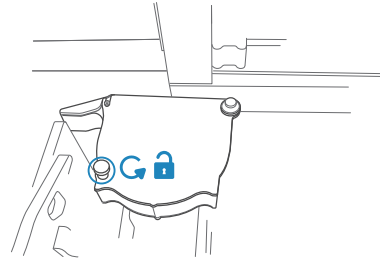
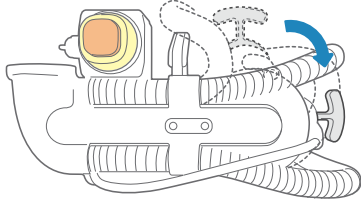


Location of sensors



Blade change

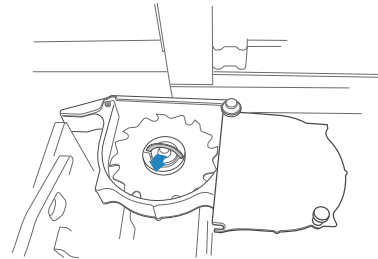
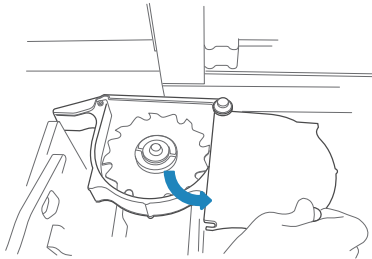
The cutting blade must be inserted as shown in the illustration.



1. Make sure there is no power to the machine (unplug the power plug from the wall outlet)

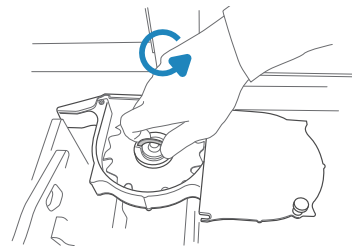
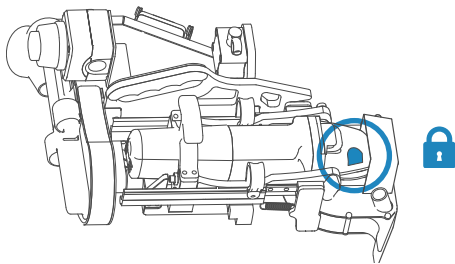
3. Loosen the thumbscrew on the suction guard until the front cover is loose.

2. Turn the angle grinder clockwise (180 degrees) until it is pointing downwards and the suction guard is pointing upwards.



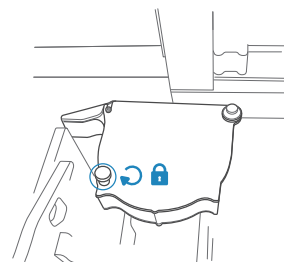
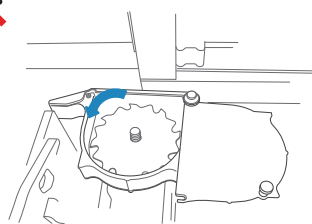
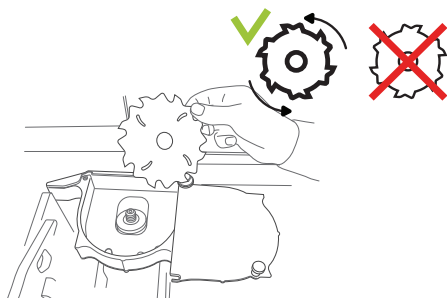
4. Slide the front cover aside to expose the cutting blade.

5. Fold up the small handle located by the nut.



6.a To change the blade, the blade rotation must be locked on the angle grinder by pressing the black button on the front of the angle grinder. See image.

6.b While pressing down, use your other hand to loosen the blade using the handle on the nut.



Magnetic strip



WARNING! The rails are closed with magnetic strips that must not be damaged. This is crucial for the operation and lifespan of the machine. If the magnetic tape is damaged, it must be replaced before the machine is put back into operation.

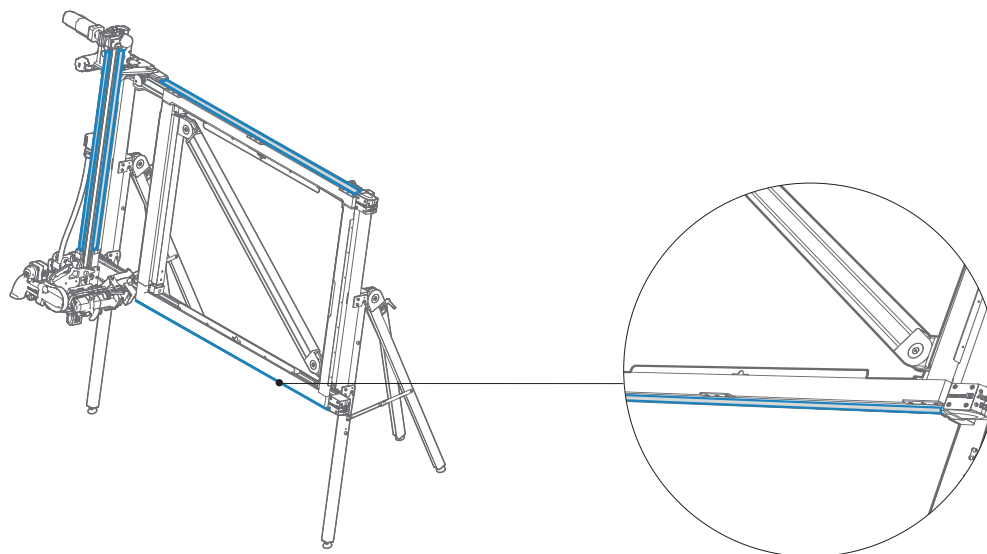
The magnetic strips must not be removed, bulge, be subjected to shocks or bends of any kind. To avoid damaging the magnetic strip, it is important that you do not press on it with your fingers or other objects. When handling the rails, pay attention to where you place your hands so that your fingers are not pressed through the magnetic strip.

Cleaning Magnetic strips, guides, blade guard and wooden strips must be kept dust-free daily by vacuuming. Do not use cleaning agents, compressed air, etc.

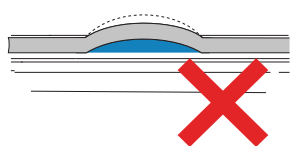
ATTENTION! All cleaning must be done with the electrical connection disconnected, i.e. without voltage.

Magnetic strip placement

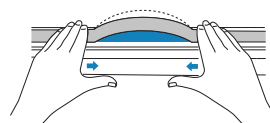
KOBOT 912, 925, 1225, 1230



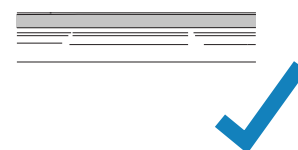
Bump straightening



Bulge on magnetic tape.



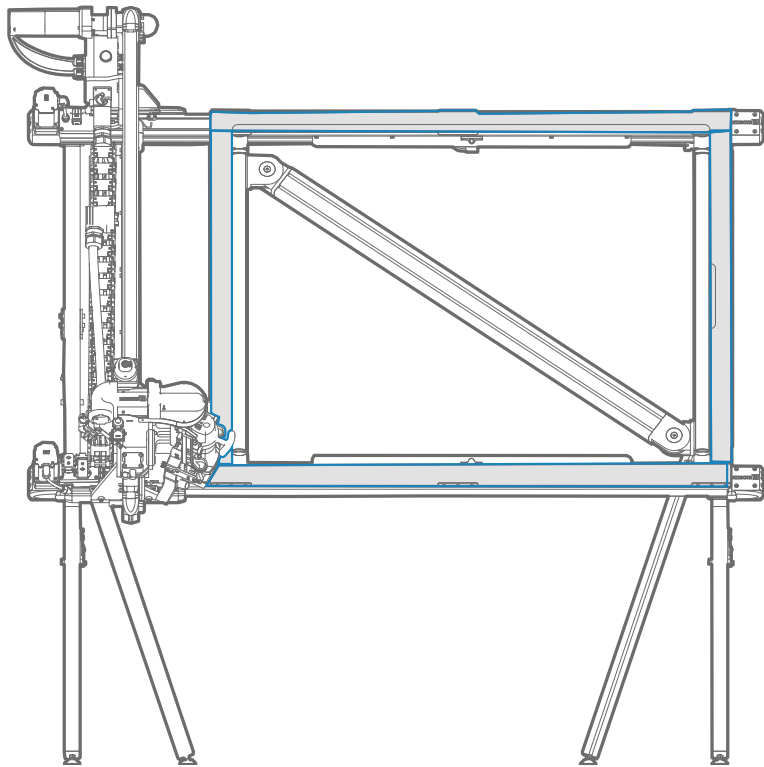
Fixing errors on magnetic tape.



Wooden strips

If the hole in the cutting strip is larger than 6mm, replace the wooden strip with an original KOBOTS wooden strip for precision and safety.

Position of wooden strips KOBOT 912, 925, 1225, 1230



Insertion of connectors

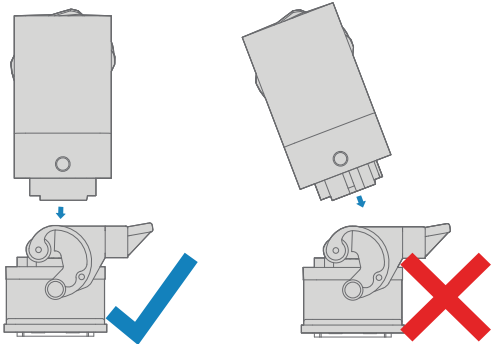


WARNING! Ensure that connectors are plugged completely parallel and without excess force.

Connectors

KOBOT 912, 925, 1225, 1230

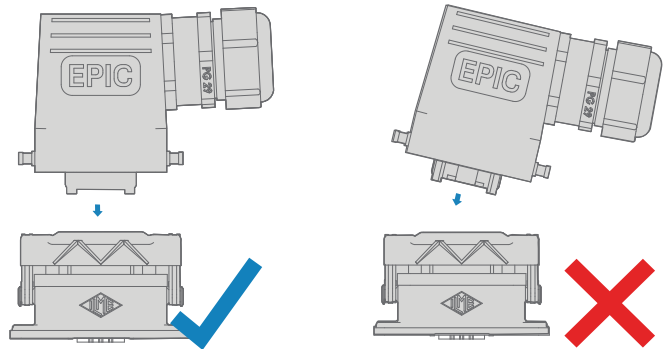
Front view.



Correct.

Wrong.

Side view.



Correct.

Wrong.



KOBOTS Company ApS
Lind Hansens Vej 13H - DK-5000 Odense C