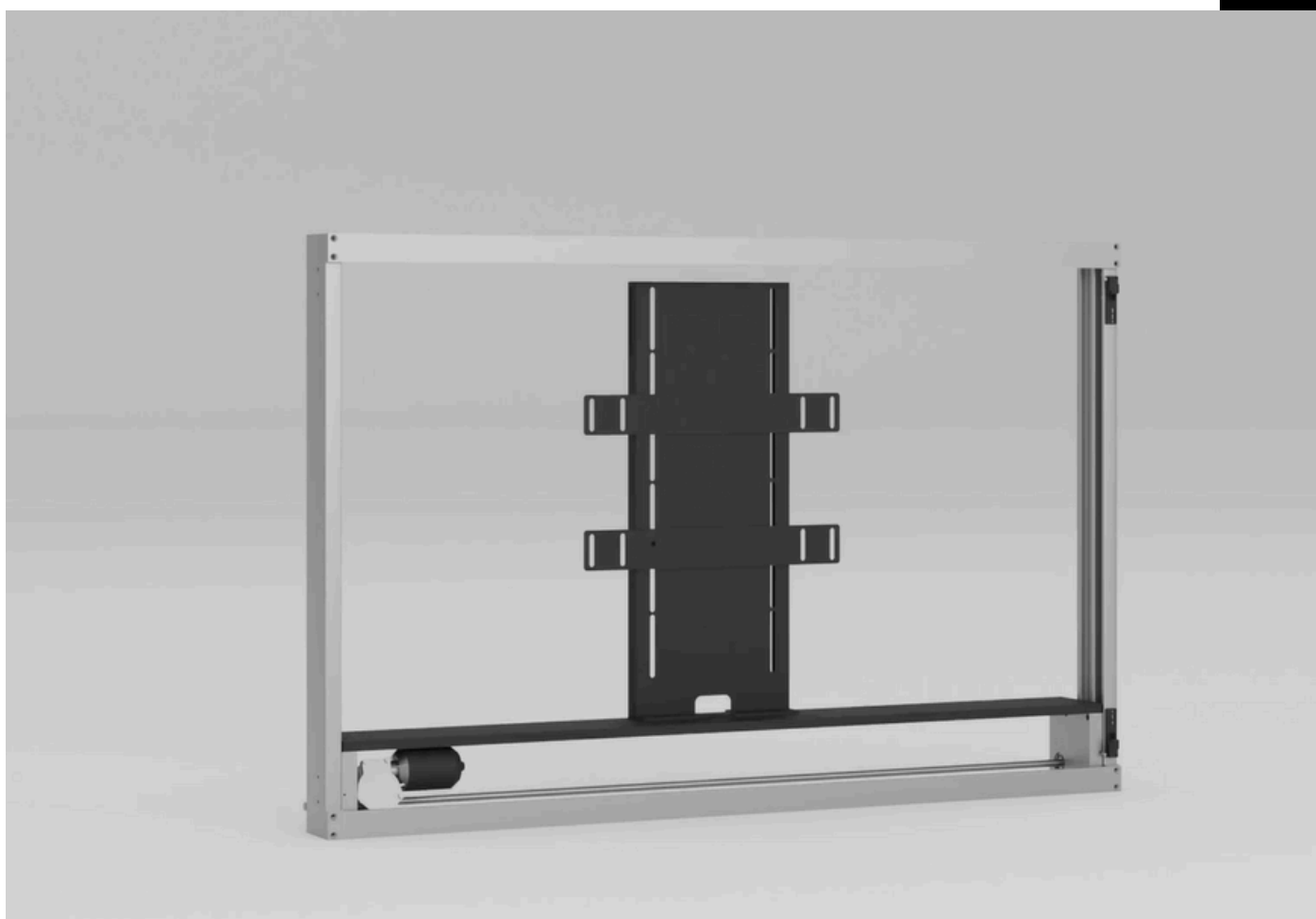


INSTALLATION MANUAL



PRODUCT TYPE:
TV LIFTS

MODEL:
UP-DOWN

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WARRANTY TERMS AND CONDITIONS

Sea & Symphony guarantees the product against manufacturing defects for a period of 24 months from the date of purchase, provided it is not used for unintended purposes and that the installation, use, and maintenance instructions contained herein are followed.

Any repairs under warranty will be completed as quickly as possible, and the warranty is extended from the time of repair.

Any complaints must be forwarded to the seller/installer who sold the finished product and will then be forwarded to Sea & Symphony, referring to the serial number.

If the product is to be sent to Sea & Symphony for repair, it must be carefully packaged to avoid damage during transport.

Shipping is the responsibility of the sender.

The warranty does not cover the following cases:

- Damage resulting from improper use or maintenance of the mechanism;
- Repairs or modifications performed by unauthorized personnel;
- Normal wear and tear;
- Damage caused by the customer;
- Accidental damage caused by the customer, by negligence of the customer or the installer, or by natural events;
- Damage caused by equipment not supplied by SEA & SYMPHONY and connected to the mechanism by third parties;
- Installation, routine maintenance, extraordinary maintenance, or repairs performed by unauthorized and unqualified technical personnel;
- Modifications not authorized by SEA & SYMPHONY S.R.L.;
- Use of parts and/or equipment not supplied or approved by SEA & SYMPHONY S.R.L.;
- Removal or alteration of the identification sticker;
- Failure to follow installation and maintenance instructions, and modifications not authorized by SEA & SYMPHONY S.R.L.;
- Any other software used to control the mechanism;
- Any transfer of ownership. The warranty is valid only for the first purchaser;
- Compensation for loss of use of the product.

The manufacturer declines all direct and indirect liability arising from:

- Installation by unqualified personnel;
- Maintenance by unqualified personnel;
- Use of the product other than that specified in this manual;
- Use of components not supplied by SEA & SYMPHONY S.R.L.
- Use by personnel who have not read and fully understood the contents of the manual;
- Installation and use instructions that do not comply with specific regulations in force in the country of installation;
- Modifications made to the product unless authorized in writing by the manufacturer;
- Exceptional events;
- Unauthorized repairs;



NOTE

The manufacturer is not responsible for any damage, defects, or malfunctions resulting from improper installation of the product, performed without following the instructions and recommendations in the manual.

After the warranty period expires, we recommend scheduling a complete product inspection annually and before the start of the season. Contact an authorized SEA&SYMPHONY service center.



DANGER

It is the installer's responsibility to carry out a risk assessment before carrying out the installation.



TECHNICAL ASSISTANCE

For any technical assistance, please contact the manufacturer directly, always citing the model and serial number, printed on the sticker on the product.



TECHNICAL ASSISTANCE

For any technical assistance, please contact the manufacturer directly, always citing the model and serial number, printed on the sticker on the product.

PRODUCT IDENTIFICATION DATA

The product identification data is shown on the white sticker located on the product frame. The nameplate specifies the model, serial number, and year of manufacture. The product sticker is shown below.



NOTE

Removing or tampering of the identification sticker automatically voids the warranty.

STATEMENT OF INCORPORATION

Below is a **sample** of the product's declaration of incorporation.

DECLARATION OF INCORPORATION FOR PARTLY COMPLETED MACHINERY

Machinery Directive 2006/42/EC, Annex II 1, B

The Manufacturer

SEA & SYMPHONY S.r.l.

Strada Carignano 46/2 - 10024 Moncalieri (TO) - Italia

Declares, under its sole responsibility, that the partly completed machinery identified below:

Designation: SISTEMA MOVIMENTAZIONE TV DA SOFFITTO

Model: BS TS ID DW

Serial number:

Year:

The following Essential Safety Requirements of the Machinery Directive (2006/42/EC) have been applied and fulfilled:

1.1.2 – 1.1.3 – 1.1.5 – 1.1.6 – 1.2.3 – 1.2.4.1 – 1.2.6 - 1.3.1 – 1.3.2 – 1.3.3 – 1.3.4 – 1.5.1 - 1.5.4 – 1.5.8 – 1.5.11 - 1.6.1 – 1.7.1 – 1.7.3 - 1.7.4

That the relevant technical documentation has been compiled in accordance with Part B of Annex VII; such documentation, or parts thereof, will be transmitted by post or electronically in response to a reasoned request by the competent national authorities.

That the partly completed machinery complies with the Low Voltage Directive 2014/35/EU.

The manufacturer further declares that the following harmonised standards have been applied:

EN ISO 12100: 2010 - EN ISO 20607: 2019

This partly completed machinery must not be put into service until the final machinery into which it is to be incorporated has been declared in conformity, where applicable, with the provisions of the Machinery Directive 2006/42/EC.

The person authorised to compile the Technical Documentation is Mr. SIGNATORY NAME, at COMPANY NAME, COMPANY ADDRESS.

Place.....

Signatory name

Date.....

Role.....

Signature

.....



INTRODUCTION TO THE MANUAL

This manual is intended for use by qualified personnel and contains information on the installation and operation of the unit.

To ensure safe use of the unit, read this manual completely and give particular attention to the safety instructions and general warnings.

These instructions are an integral part of the product.

Keep these instructions available at all times.

To avoid risks and problems when using the unit, be sure to follow all information contained in the instructions.

SYMBOLS USED IN THE MANUAL

The following symbols are used in this Manual to indicate the presence of hazards and to draw the reader's attention to important information:



NOTE

In this area, the important notation to be highlighted is inserted.



DANGER

Indicates a reminder to follow safe practices or calls attention to unsafe practices that could cause personal injury or damage to the device, its components, or the environment.



WARNING

Indicates that a hazard exists that could cause injury or death if appropriate precautions are not taken.

WARNING

To prevent accidents, pay maximum attention to the following operations:

- The use and maintenance of the product is subject to the complete reading of this manual, particularly about the product safety information.
- Operate in strict compliance with the capacity and construction characteristics.
- Do not tamper with the safety guards under any circumstances.
- Periodically inspect the product for any wear or damaged parts.
- Do not use the product if any moving parts are worn.
- Entrust maintenance operations to specialized personnel with specific skills.
- For anything not expressly mentioned, always comply with the safety regulations in force.
- SEA&SYMPHONY Srl declines all responsibility for damage to persons or property resulting from failure to comply with the safety regulations.
- Use must not be permitted to persons under 16 years of age or to anyone unaware of the dangers inherent in the careless use of this equipment.
- During opening/closing operations, it is forbidden to stand or pass through the movement area.
- Never activate the device when there are people within its range of action.
- Always announce the opening/closing of the device in advance when people are present in the area.
- Always open/close the device while maintaining visual contact with them.



PACKAGING

The packaging must be intact upon receipt, meaning:

- it must not show any signs of impact or breakage;
- it must not show any signs that suggest it has been exposed to heat, frost, water, etc.;
- it must not show any signs of tampering.

Any deformations indicate impacts during transport, which could compromise the normal functioning of the product.

The device and its accessories, and more generally the entire supply, must be in perfect condition.

The supply is subjected to a thorough inspection procedure before shipping; however, it is always advisable to check that the supply is complete and in good condition upon receipt.

MAKE SURE THAT:

- The shipping information (recipient's address, number of packages, order number, etc.) corresponds to the information contained in the accompanying documentation.
- The technical-legal documentation supplied with the product includes the manual corresponding to the type of device.

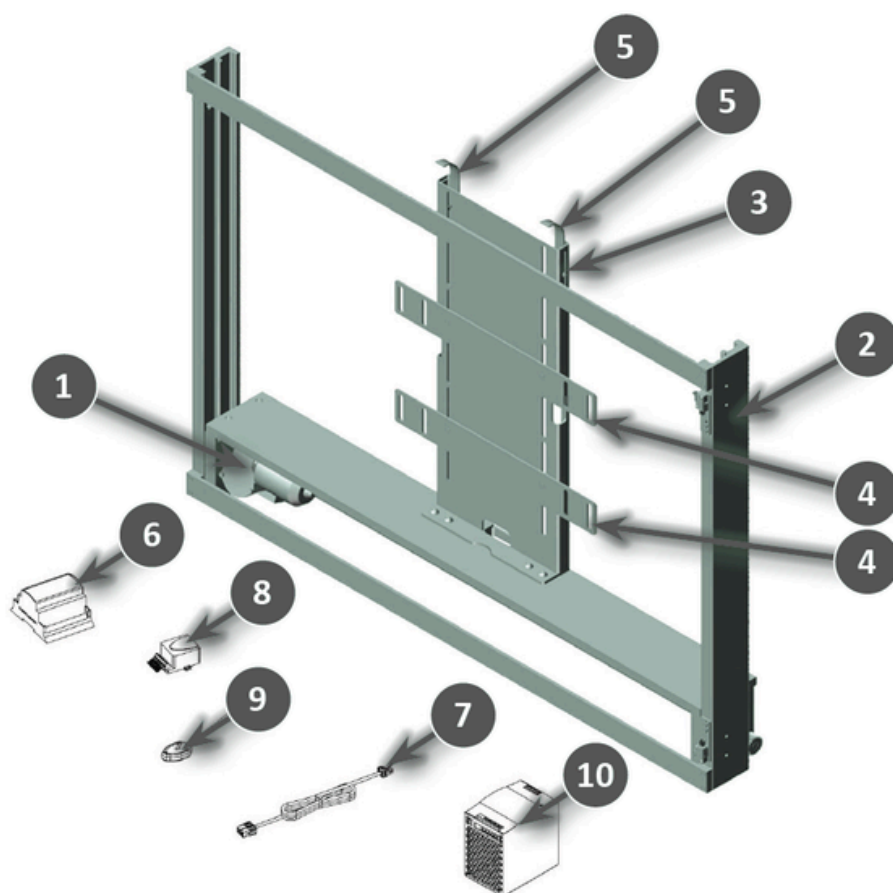
CONTENT DESCRIPTION

The package contains the following items:

1. Drive unit
2. Up-down mechanism
3. TV bracket
4. VESA mounting adapters (from an overall height of 780 mm)
5. Flip-up top lifting bracket
6. Control unit
7. Extension wiring

Optional:

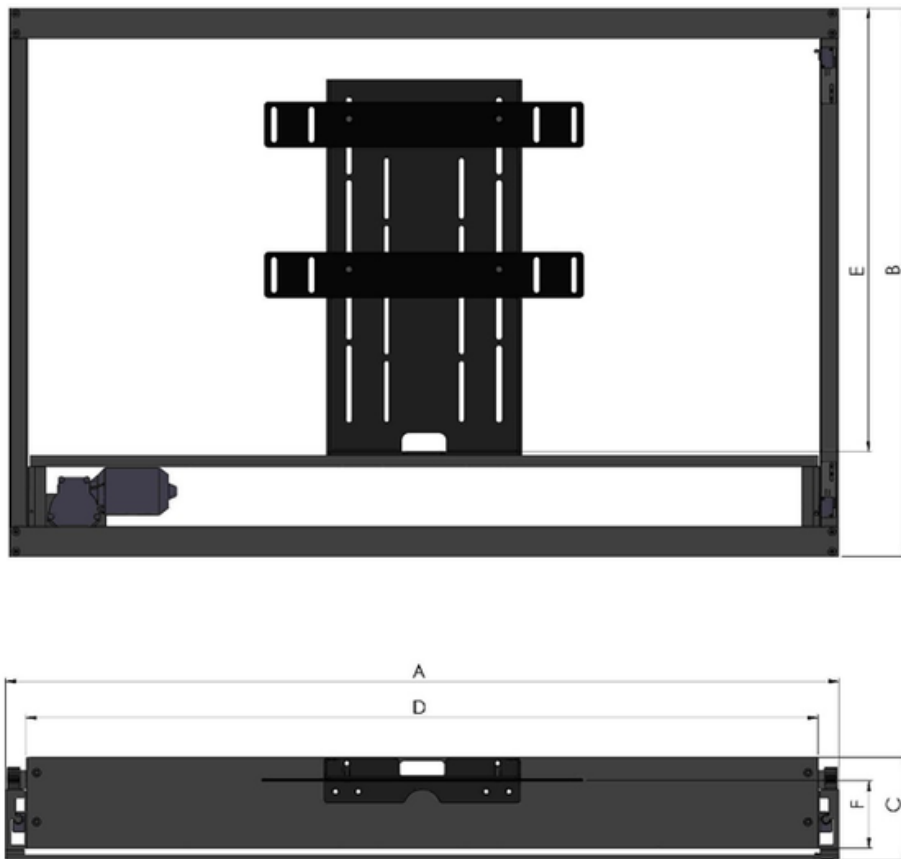
8. Receiving
9. Radio control
10. Power supply



SYSTEM FEATURES

The product is available in two versions: the 4G version (standard TV lift for screens from 30" to 65", custom-built for screens over 65") and the 5G version (ultra-slim TV lift for screens from 30" to 65", custom-built for screens over 65").

Each version is available in different models defined by the size of the TV to be installed and the cabinet/structure in which it is housed.



LEGEND

A=WIDTH (mm)

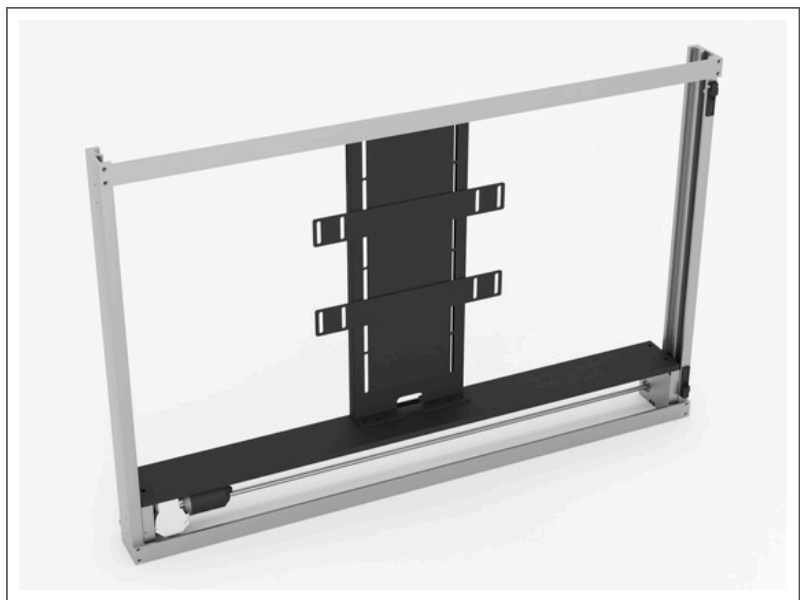
B=HEIGHT(mm)

C=DEPHT (mm)

D=USABLE TV WIDTH (mm)

E=USABLE TV HEIGHT (mm)

F=USABLE TV DEPTH (mm)



TECHNICAL DATA SHEET

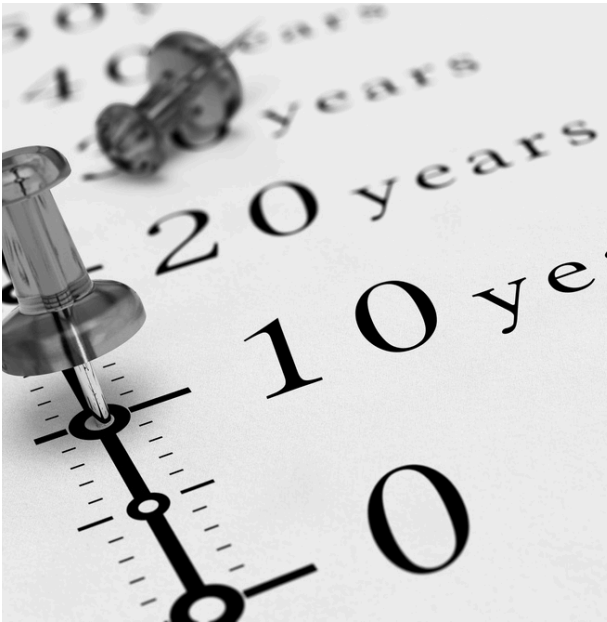
MODELLO MODEL	DESCRIZIONE DESCRIPTION	UTILE TV USEFUL TV	ALTEZZA HEIGHT	PROFONDITA' DEPTH	PESO WEIGHT	PORTATA LIFTING	UTILE TV USEFUL TV
7031	Tv lift sali-scendi 4G	905	660/700/730	137	15 KG	50 KG	Max 32"
7040	Tv lift sali-scendi 4G	1000	700/730/780	137	17 KG	50 KG	Max 40"
7042	Tv lift sali-scendi 4G	1105	730/780/820/850	137	19 KG	50 KG	Max 42"
7043	Tv lift sali-scendi 4G	1169	820/850	137	22 KG	50 KG	Max 43"
7050	Tv lift sali-scendi 4G	1300	850/890/920	137	23 KG	100 KG	Max 50"
7065	Tv lift sali-scendi 4G	1555	1020	137	26 KG	100 KG	Max 65"
7080	Tv lift sali-scendi 4G	dimensioni su misura / custom					

*tutte le misure presenti in tabella sono espresse in mm | All measures indicated above are expressed in mm.

MODELLO MODEL	DESCRIZIONE DESCRIPTION	UTILE TV USEFUL TV	ALTEZZA HEIGHT	PROFONDITA' DEPTH	PESO WEIGHT	PORTATA LIFTING	UTILE TV USEFUL TV
7031	Tv lift sali-scendi 5G	905	660/700/730	110	15 KG	25 KG	Max 32"
7040	Tv lift sali-scendi 5G	1000	700/730/780	110	17 KG	25 KG	Max 40"
7042	Tv lift sali-scendi 5G	1105	730/780/820/850	110	19 KG	25 KG	Max 42"
7043	Tv lift sali-scendi 5G	1169	820/850	110	22 KG	25 KG	Max 43"
7050	Tv lift sali-scendi 5G	1300	850/890/920	110	23 KG	25 KG	Max 50"
7065	Tv lift sali-scendi 5G	1555	1020	110	26 KG	45 KG	Max 65"
7080	Tv lift sali-scendi 5G	dimensioni su misura / custom					

*tutte le misure presenti in tabella sono espresse in mm | All measures indicated above are expressed in mm.

OPERATIONAL LIMITS



TIME LIMITS

The product's lifespan is indefinite if the preventive maintenance guidelines outlined in this manual are followed and repairs are performed when necessary. It is recommended that maintenance be performed only by experienced and qualified personnel.

ENVIRONMENTAL LIMITS

The product is designed to operate in environments with temperatures between 10°C and 40°C.

The product can be stored at temperatures between 10°C and 40°C. Do not store the product outdoors. If storing for long periods and/or in environmental conditions beyond the specified limits, appropriate precautions must be taken by contacting Sea&Symphony technical support.





PERSONAL PROTECTIVE EQUIPMENT

Personnel responsible for product installation and maintenance are required to use personal protective equipment (PPE):



PROTECTIVE GLOVES



SAFETY FOOTWEAR



SAFETY HELMET

The user is required to ensure that the PPE complies with EC Directive 2016/425 and applicable technical standards.



DANGER

Failure to comply with PPE requirements may expose the operator to serious health damage or death.



SAFETY PLATES

Danger warning pictograms have been applied to the device to draw the user's attention to the presence of risks that cannot be avoided or sufficiently limited by measures, methods, or systems of work organization or by technical means of protection.



DANGER

Warning pictograms placed on the product perform an important safety function.

When seeing these pictograms, the user is required to adopt correct behavior.



NOTE

Removing warning pictograms that serve a safety function is prohibited. Failure to comply with this rule will void the warranty and result in the user's full liability.

The user is required to maintain the pictograms in good condition and to replace them if they are accidentally removed or damaged.

RESIDUAL RISKS



DANGER OF MOVING PARTS

Do not touch the mechanism with your hands or other parts of your body and not introduce foreign objects into the moving mechanism.

Keep children away from the components of this mechanism to avoid injury and/or property damage. Since this mechanism can be operated with a remote control (radio control), ensure that it is always stored in a protected place and out of the reach of children. Do not allow children to be encouraged to use the mechanism for fun, which could pose serious risks.



DANGER

Never exceed the maximum load capacity of the mechanism (50 kg, including the finishing panel).

This could cause injury or property damage.

It is the installer's responsibility to ensure that the total weight of all components connected to the mechanism does not exceed the maximum load capacity.



DANGER OF MOVING PARTS

A suitable housing for the mechanism must be available before beginning installation. Failure to provide such a housing could cause injury to people and/or property. It is the installer's responsibility to ensure that the structure to which the mechanism will be attached can support a weight equal to four times that of the mechanism and its various components.



DANGER OF ELECTRICITY

Before any installation, adjustment or maintenance operation, isolate the energy sources.



INSTALLATION



DANGER

During installation give maximum attention during the lifting and handling phases of the device.



NOTE

During installation must be provided an inspection compartments to allow access for any maintenance in the period after assembly.



DANGER

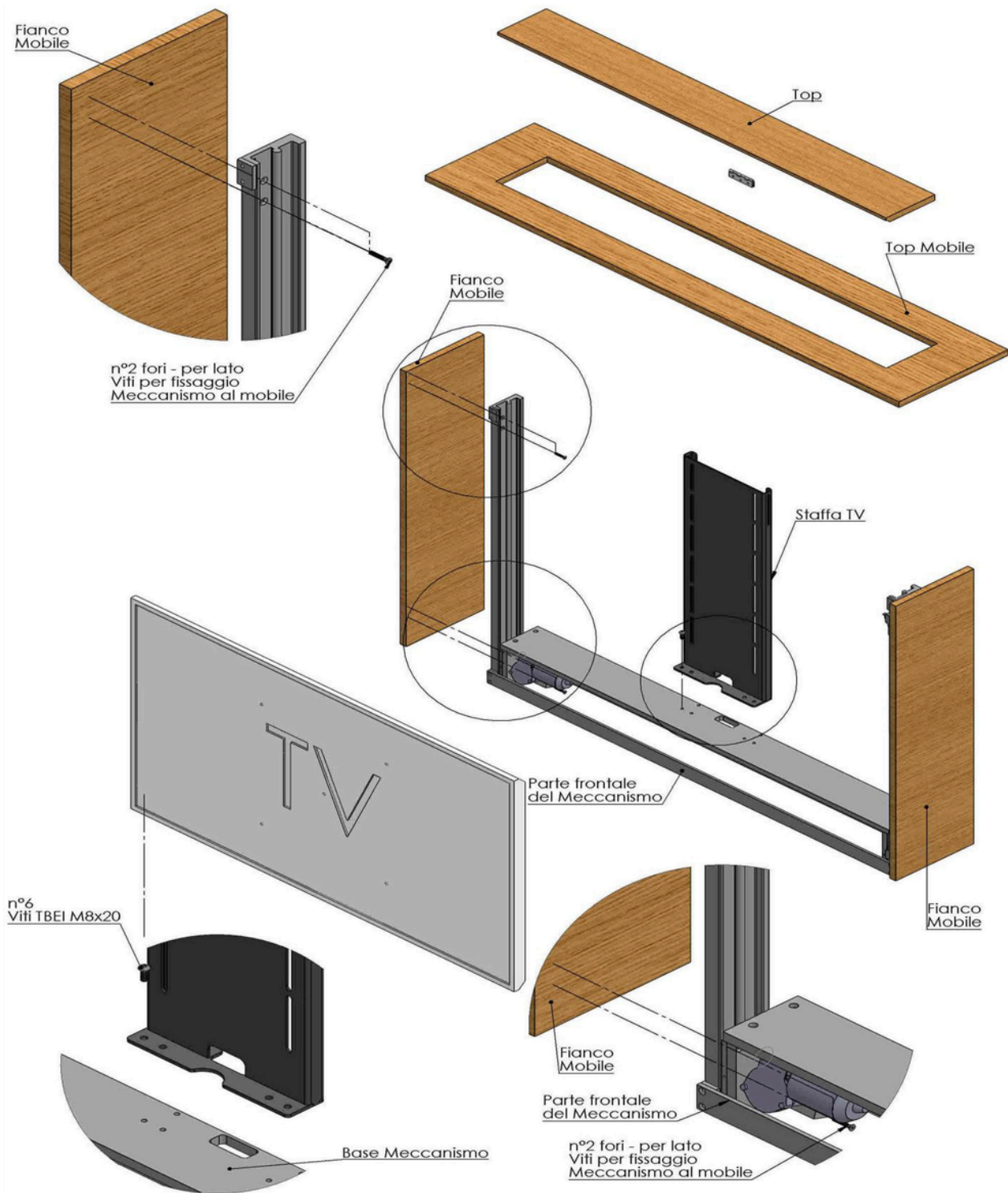
It's important to choose the most appropriate model based on the location where the device is installed; install the device on a cabinet/container, so as to protect users from inadvertent contact with moving parts, and so that the moving parts do not create further hazards by interacting with surrounding objects.



NOTE

The installation of control devices is free, dependent only on the operating wiring.

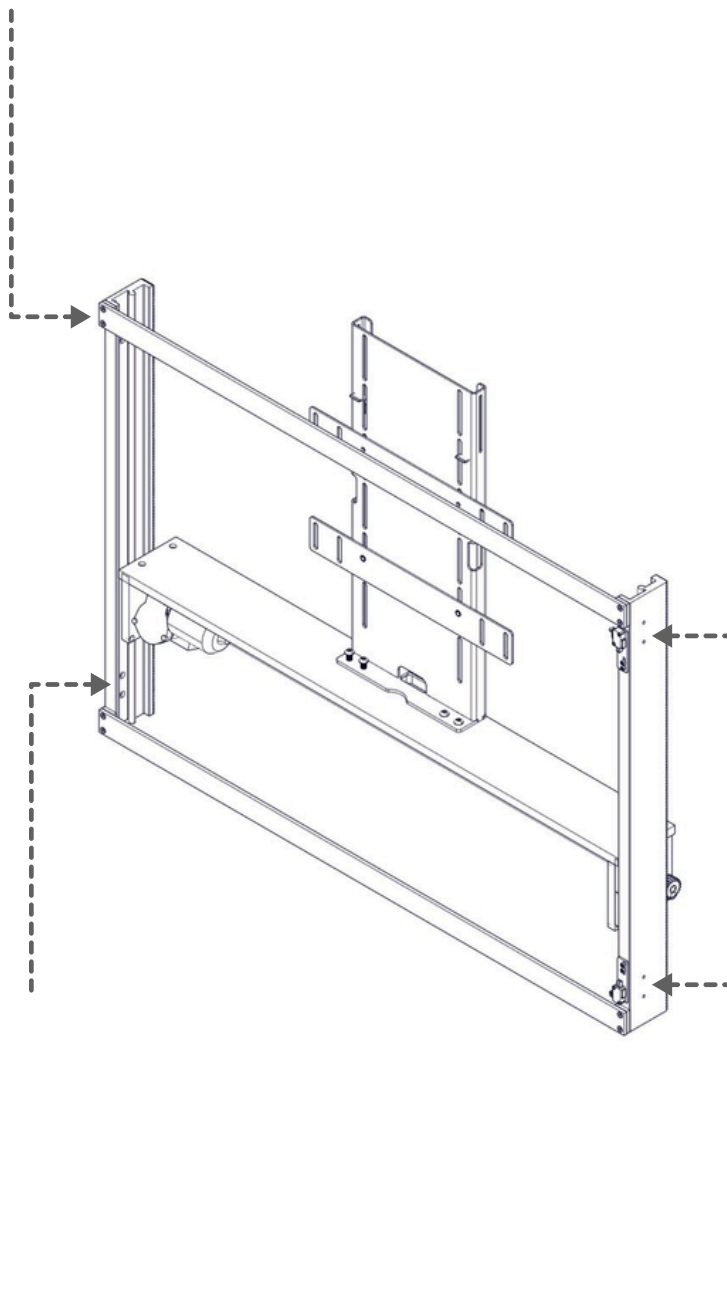
ASSEMBLY



MOUNTING



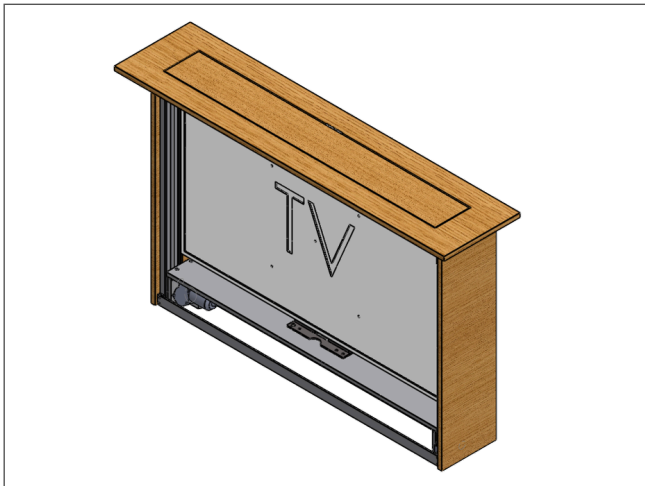
Secure the unit to the sides of the cabinet using 8 screws, passing them through the countersunk holes inside the drive guides, as shown in the figure below.



ASSEMBLY WITH FIXED TOP



To ensure correct installation, please follow the instructions on the following pages to avoid causing irreparable damage to the TV.

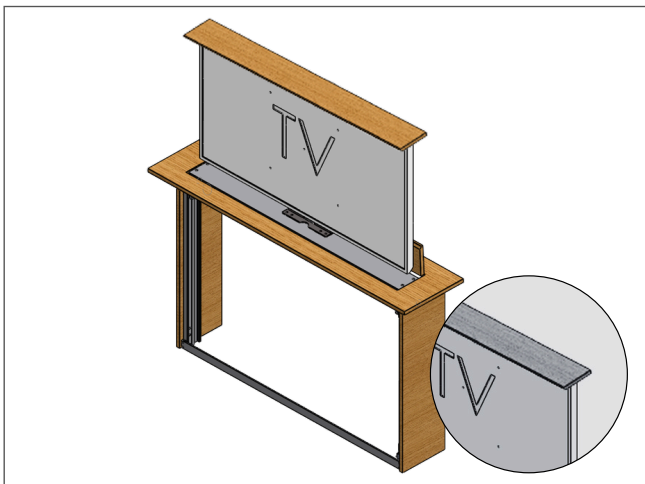
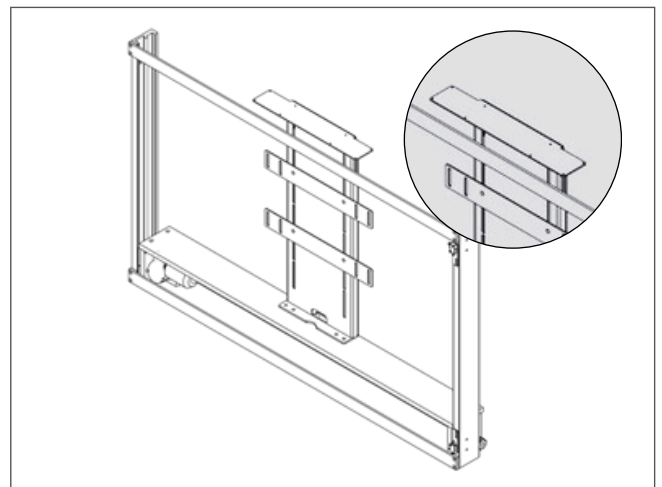


CLOSED SYSTEM

The image shows the mechanism installed inside the cabinet in the closed position.

MECHANISM

The mechanism is fitted with a bracket to which the top must be secured.



OPEN SYSTEM

When the mechanism is open, the top remains visible above the screen; as it descends, it will follow the TV and slide back into its housing.



CABINET TOP VIEW

Cabinet top view with fixed top (Image 1)

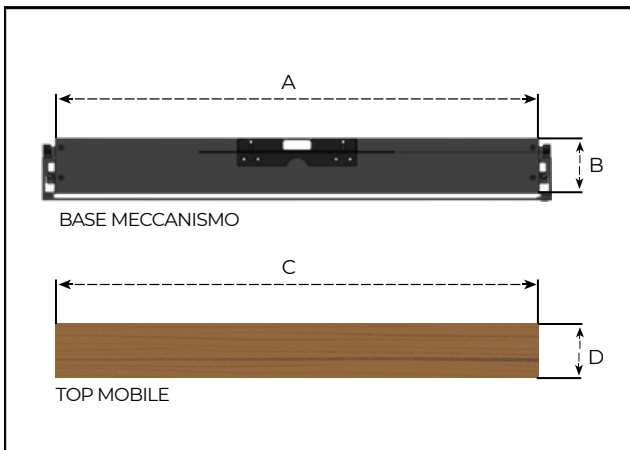
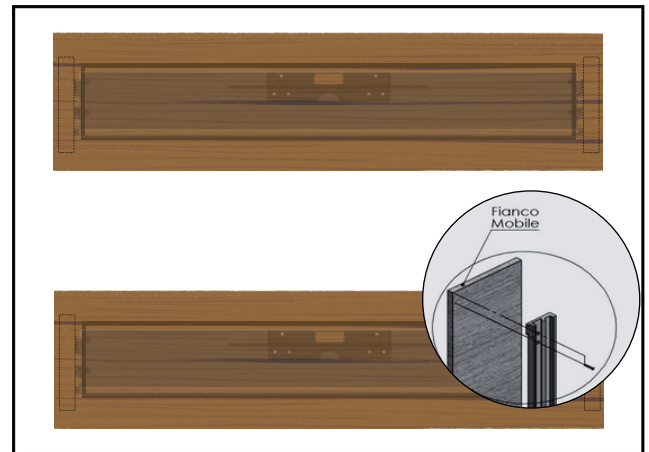
In image number 2, the mechanism base is shown in transparency to indicate the overall dimensions.

MECHANISM ANCHORING

CABINET SIDE



The mechanism must be fixed to the side panels of the cabinet.



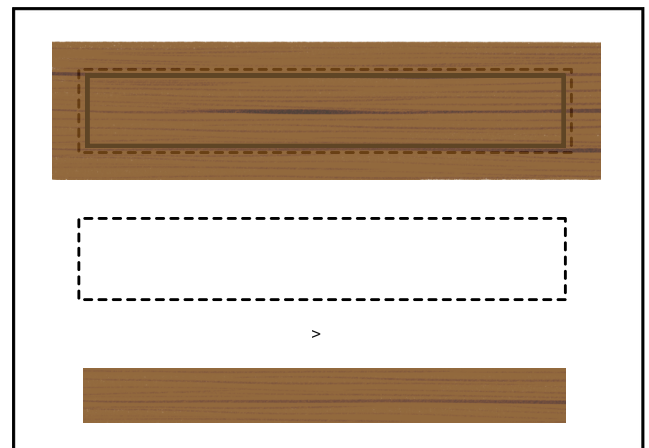
TOP DIMENSIONS

$$C = A \quad / \quad D \geq B$$

The width and depth of the top may be equal to or greater than the dimensions of the mechanism base.

TOP CUTOUT

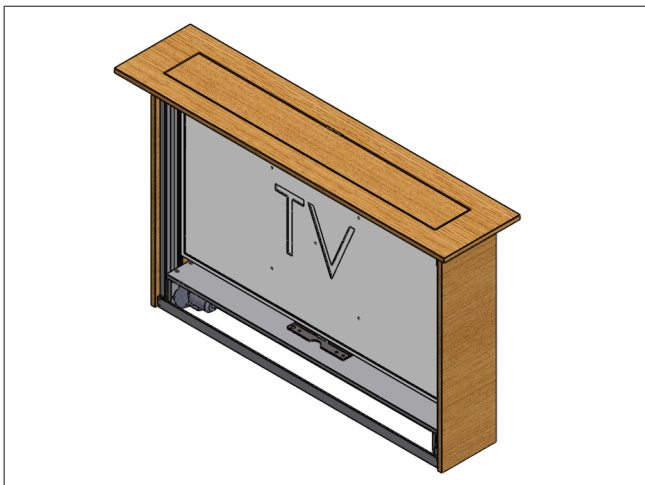
The cutout must be a few mm larger than the top dimensions.



ASSEMBLY WITH FLIP-UP TOP



To ensure correct installation, please follow the instructions on the following pages to avoid causing irreparable damage to the TV.

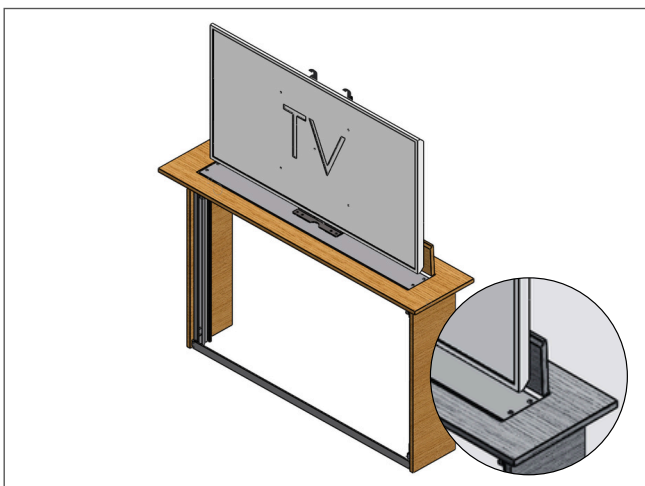
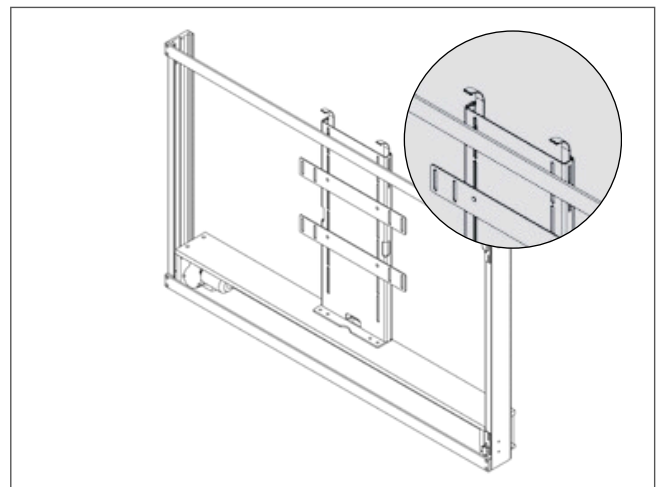


CLOSED SYSTEM

The image shows the mechanism installed inside the cabinet in the closed position.

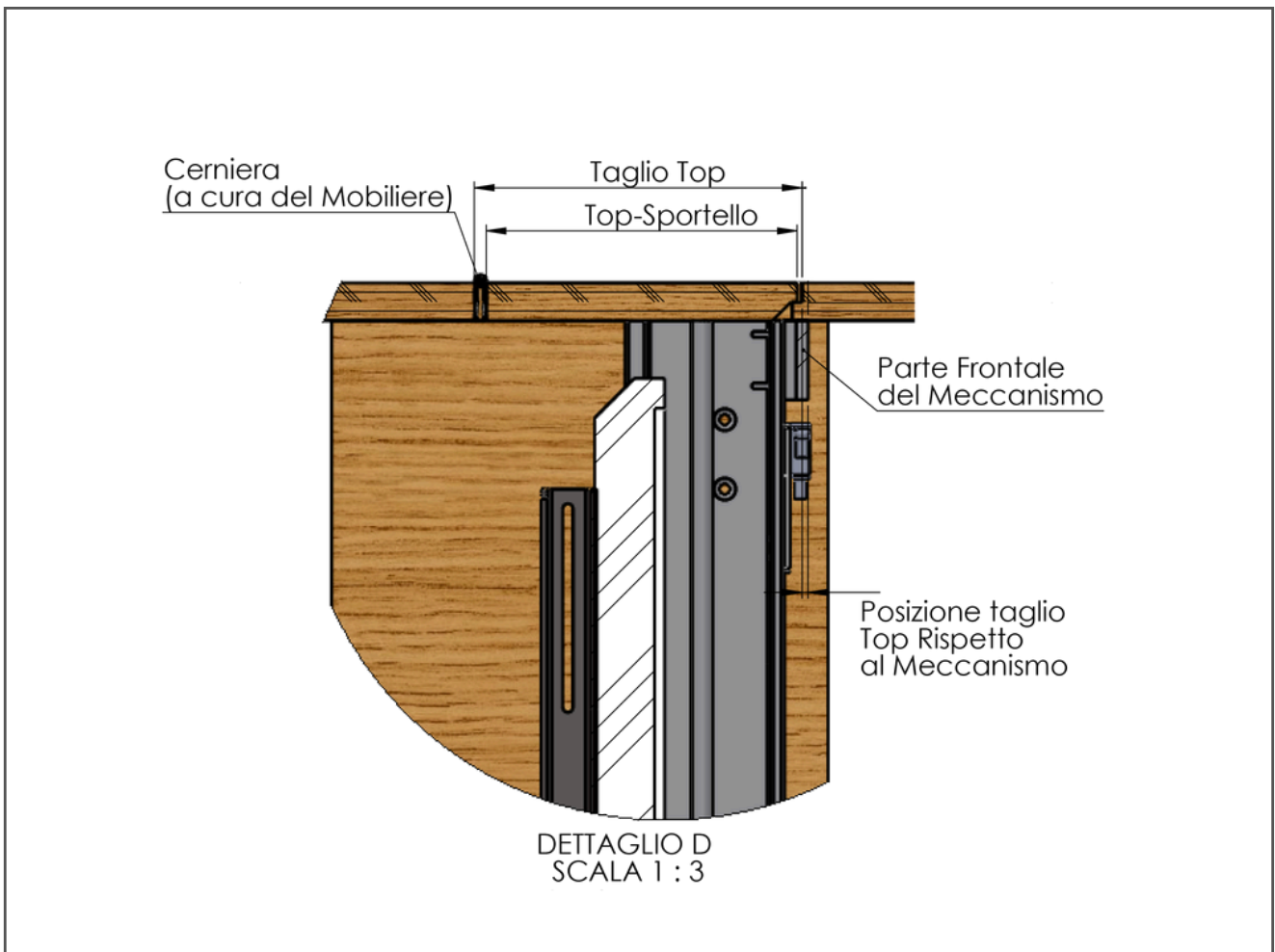
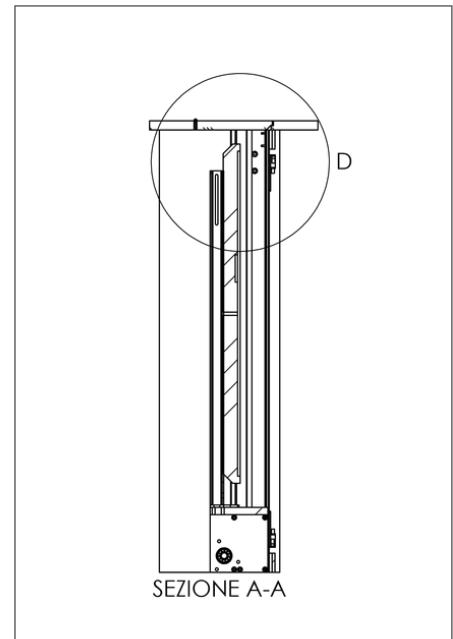
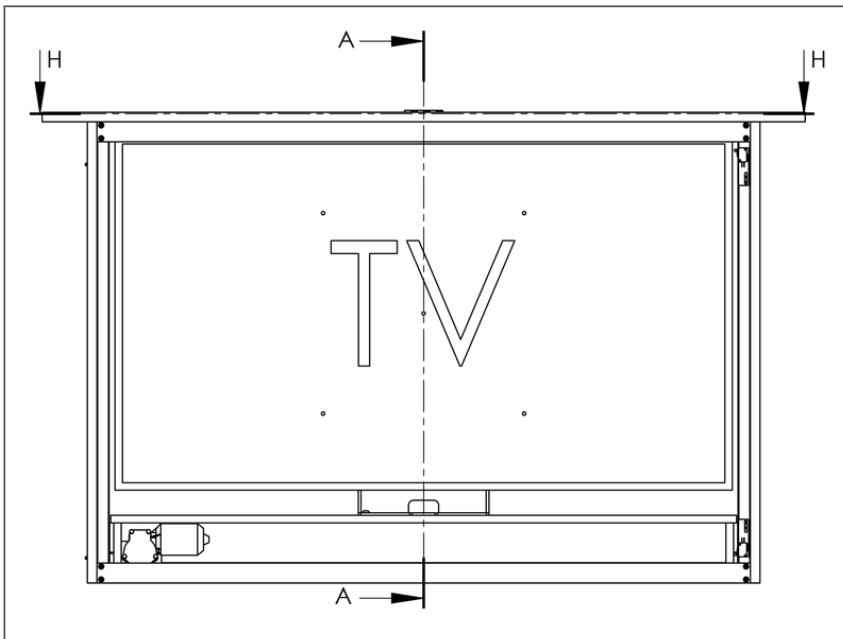
MECHANISM

The mechanism is supplied with slides fixed to the TV bracket that allow the top to open during the upward movement.

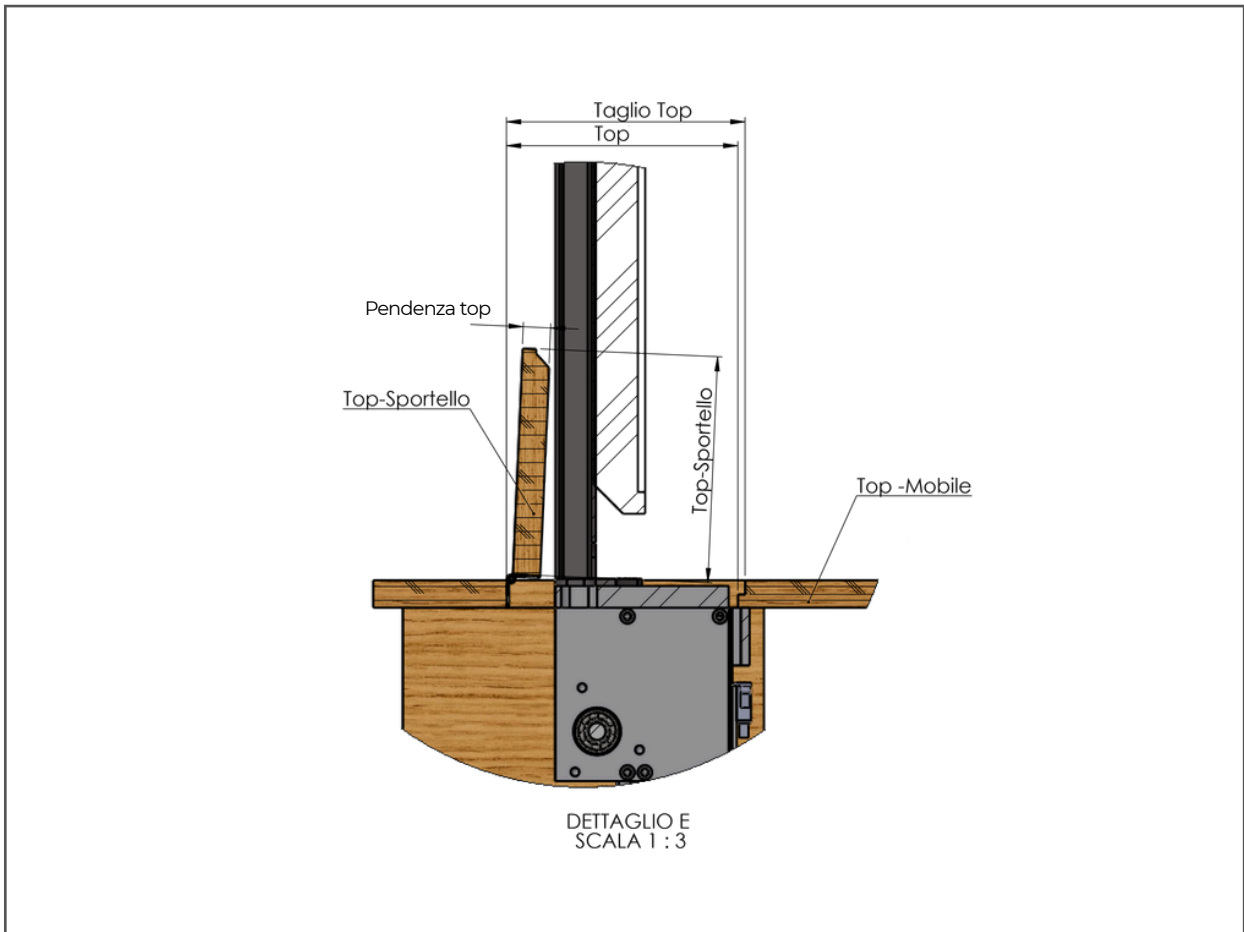
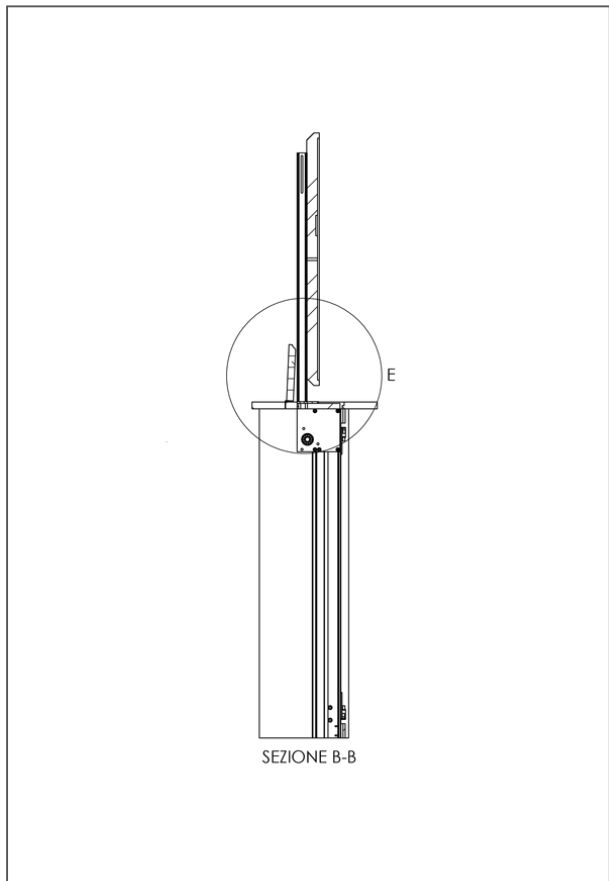
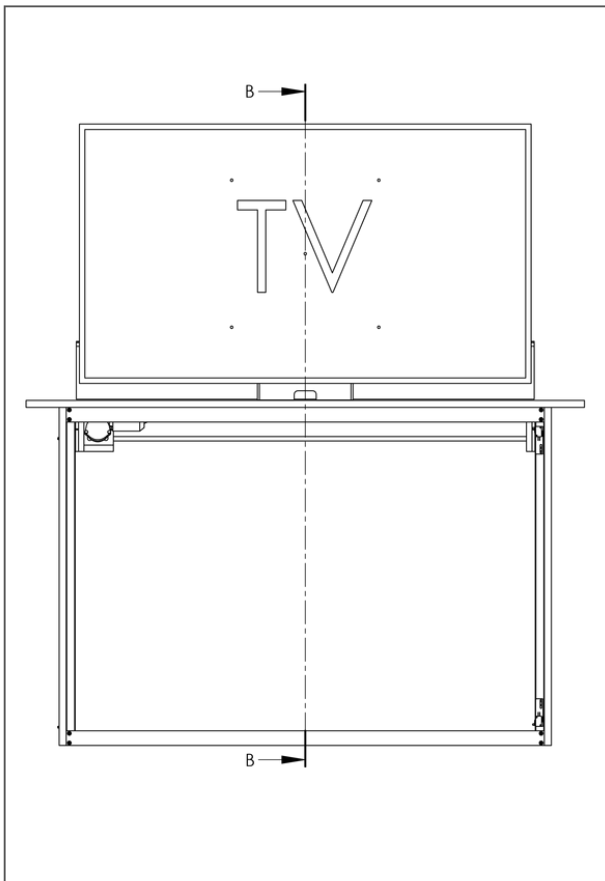


OPEN SYSTEM

When the mechanism is open, the top rests behind the screen. During the downward movement it follows the TV, returning to its housing.



FLIP-UP TOP DETAIL — MECHANISM IN CLOSED POSITION



FLIP-UP TOP DETAIL — MECHANISM IN OPEN POSITION



CABINET TOP VIEW

Cabinet top view with flip-up top (Image 1)

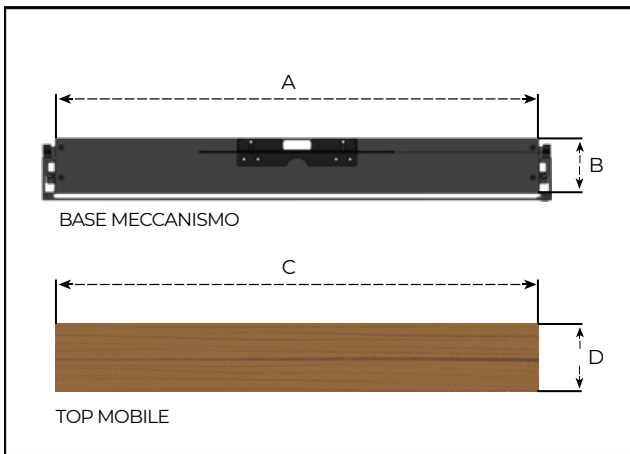
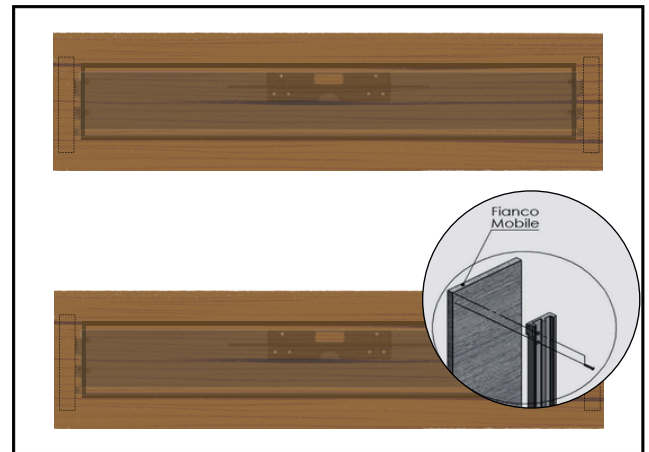
In image number 2, the mechanism base is shown in transparency to indicate the overall dimensions.

MECHANISM ANCHORING

CABINET SIDE



The mechanism must be fixed to the side panels of the cabinet.



TOP DIMENSIONS

$$C = A \quad / \quad D > B (\sim 30\text{mm})$$

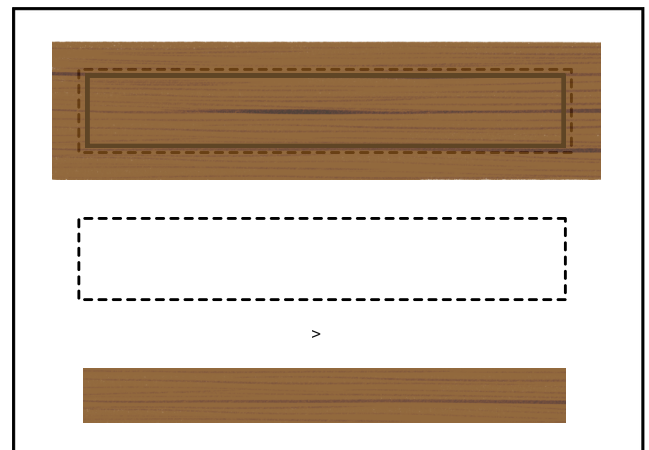
The depth of the top must be greater than that of the mechanism base, so that when the system is in the open position it remains tilted and resting against the screen. This way, during the downward movement, it will follow the TV by gravity, returning to its housing.

TOP CUTOUT

The cutout must be a few mm larger than the top dimensions.



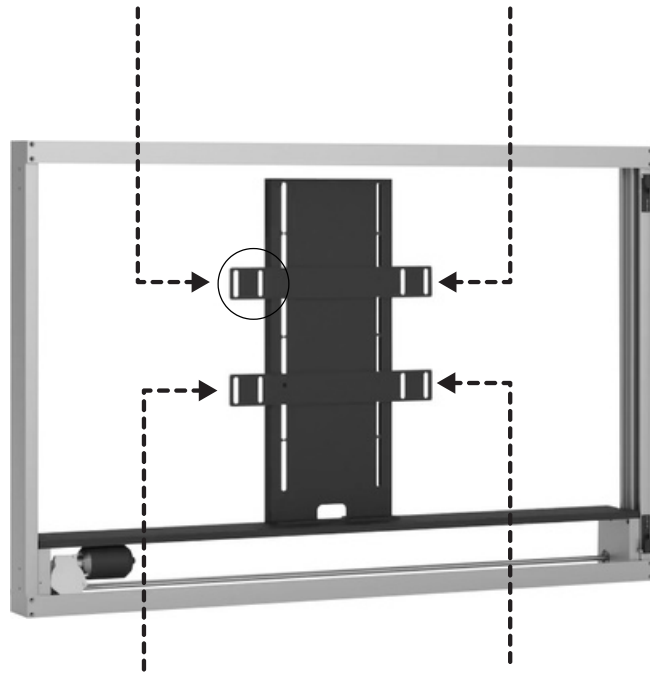
Cutout dimensions, top positioning and the resulting clearance depend on the type of hinge used.



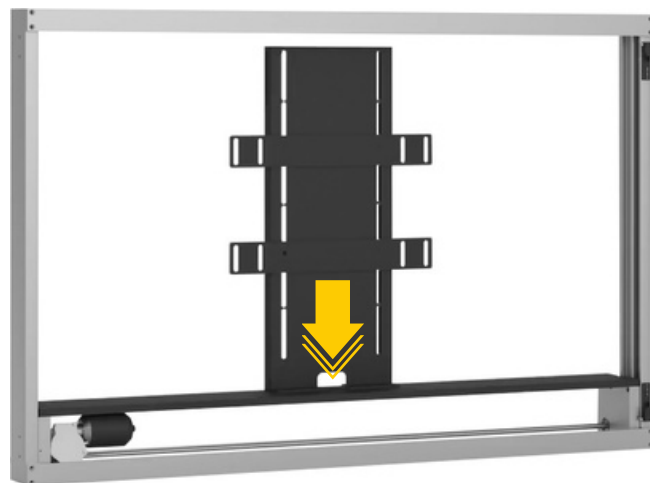
TV ASSEMBLY



Fix the TV to the bracket slots or TV adapters using the appropriate screws and connect the necessary cables to the TV.



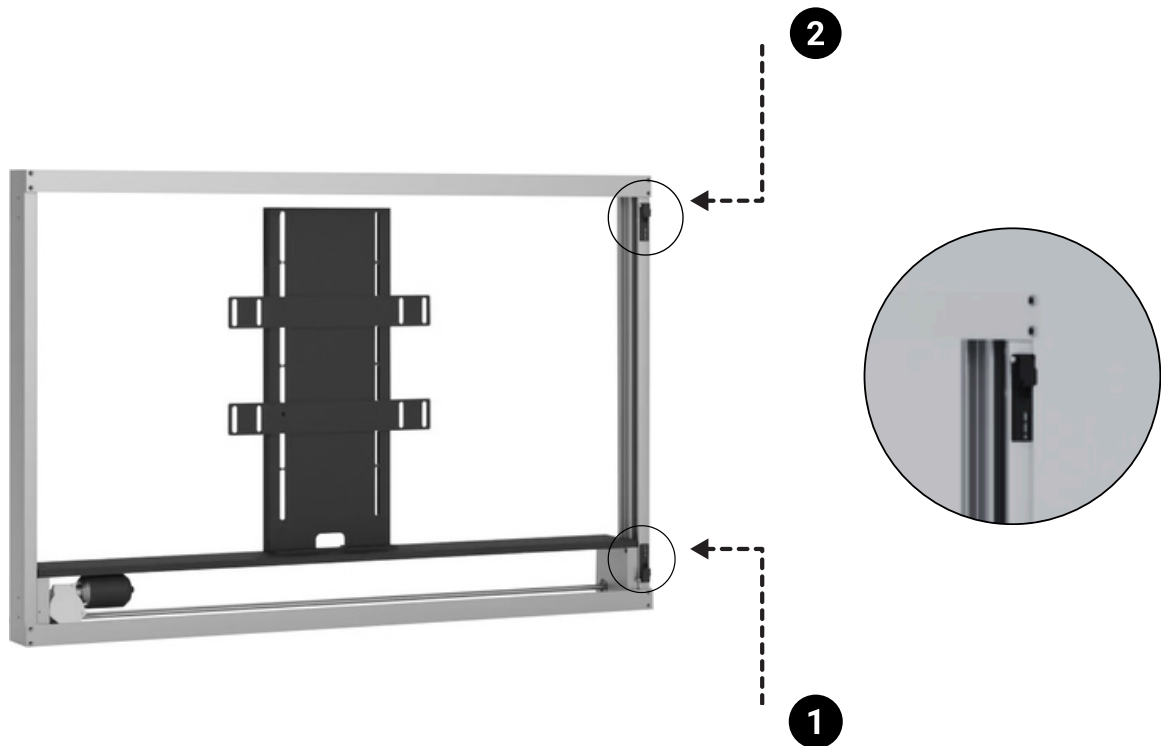
Route the TV cables (as indicated in the figure) and test the movement.



FINAL REGULATION



Through the adjustment of the microswitches, it is possible to perform the final calibration of the system's closing and opening positions, if necessary.



1. CLS: Closing limit switch (Red/Brown)
2. OLS: Opening limit switch (Red/Blue)

Loosen the screw of the plate corresponding to the opening limit switch (OLS) slightly and adjust it until the limit switch click is heard, then tighten the plate screw.

Repeat the operation with the other limit switch (CLS).

Verify the correct positioning of the limit switches and re-adjust if necessary.

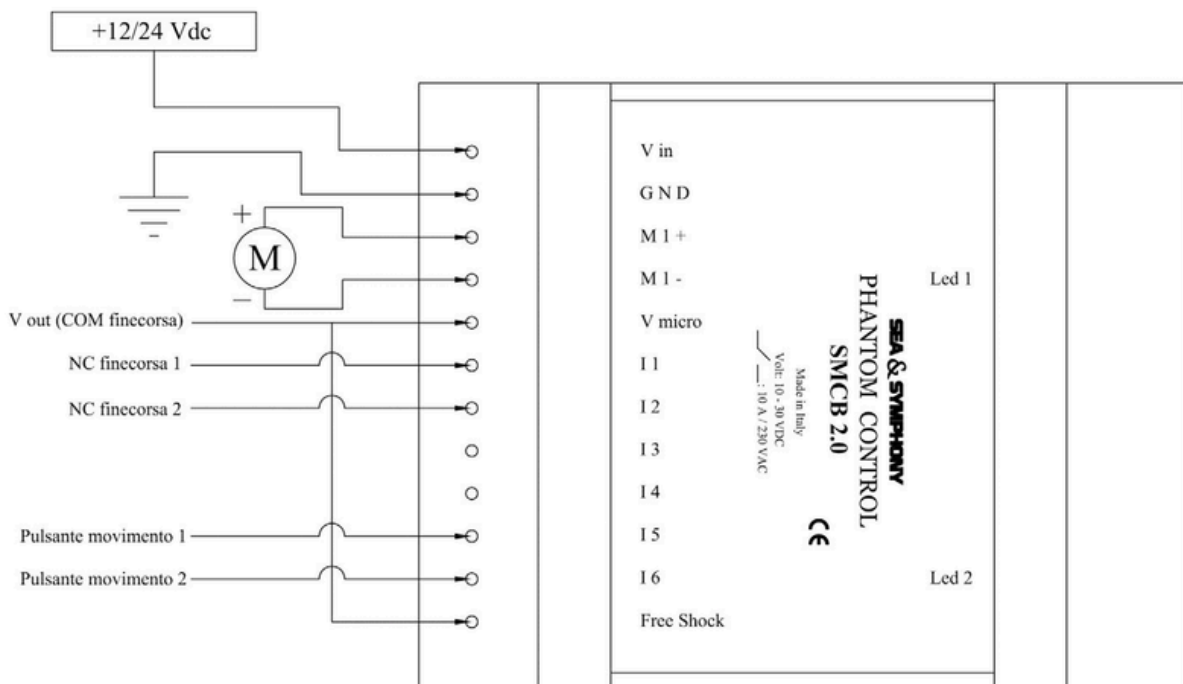
COMPONENTISTICA ELETTRONICA

CONTROLLO LOGICO



The Phantom Control Logic Box (control unit) 7212/24 SMCB can be powered by either 12 or 24 V DC and features two different-sized plastic connectors to prevent incorrect connections by the user.

The eight-pin connector must be connected directly to the device connector.
The ten-pin connector must be connected to the power/button wiring



DANGER

The device operates at low voltage (12/24 V DC). The manufacturer therefore declines all liability for damage resulting from connections that do not comply with these voltage levels or with the standards and legislation in force in the country of installation.

POWER AND BUTTON WIRING

The wiring consists of a plastic connector with 5 wires, each with a specific function:

- RED 1 mmq: positive (12/24V DC)
- BLACK 1 mmq: negative
- RED 0.5 mmq: common button terminal
- WHITE 0.5 mmq: up contact
- GREY 0.5 mmq: down contact



NOTE

The installation must ensure that the DC power disconnect switch (in the case of a system supplied without a power supply unit) or the 230V AC power disconnect plug (in the case of a system supplied with a power supply unit) is easily accessible.

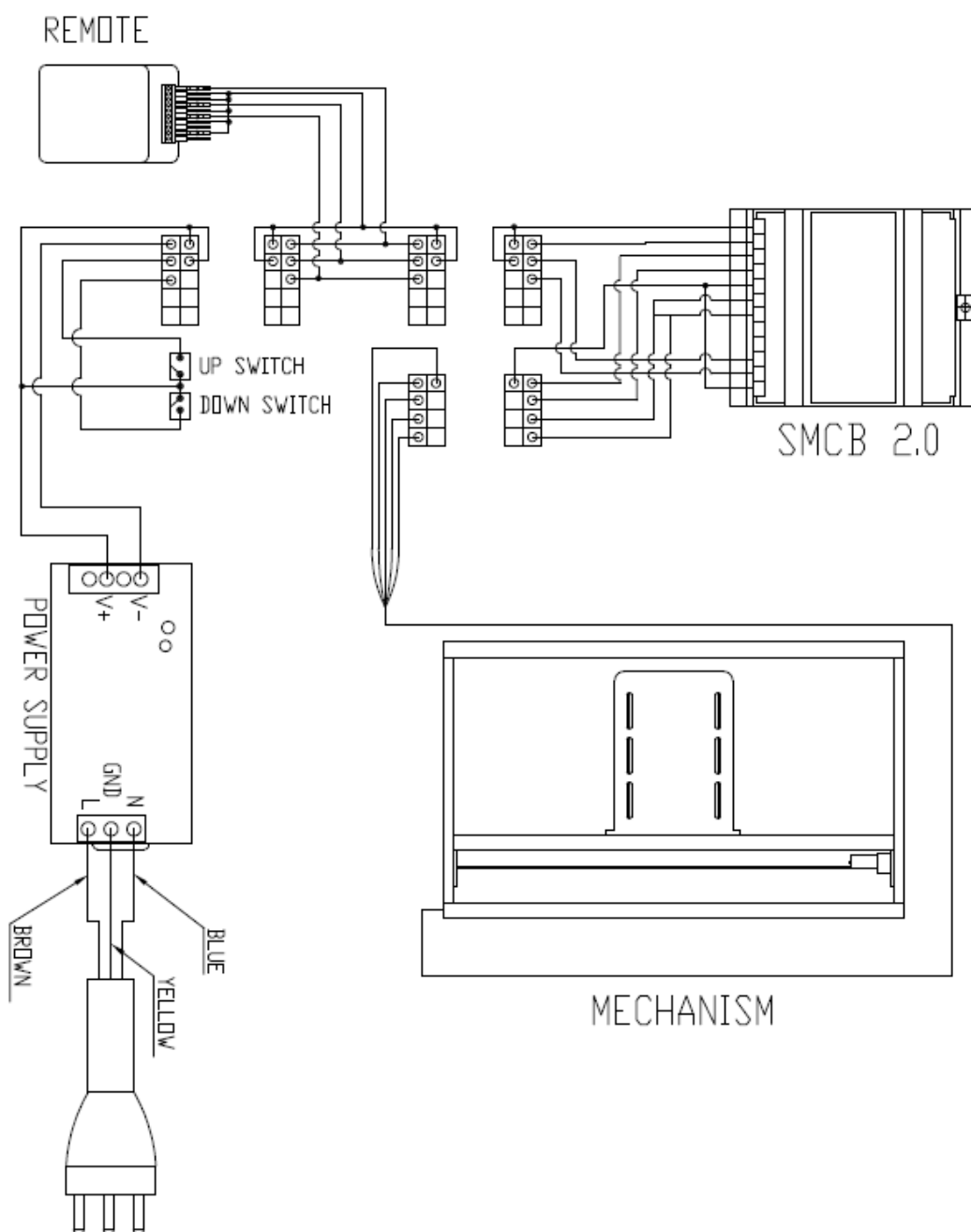
SWITCH FROM MANUAL MODE TO AUTOMATIC MODE

Phantom Control can be used with two different modalities:

- **MANUAL MODE** (Human presence): the movement takes place only by holding down the open/close button; if the button is released, the PHANTOM mechanism will stop its stroke.
- **AUTOMATIC MODE**: the movement starts by briefly pressing one of the two buttons and ends by pressing it again, or when the mechanism comes to press the limit switch.

To switch from one mode to another, it is necessary to keep the common button, the up contact and the down contact together for at least 5-6 seconds.

CIRCUIT DIAGRAMS



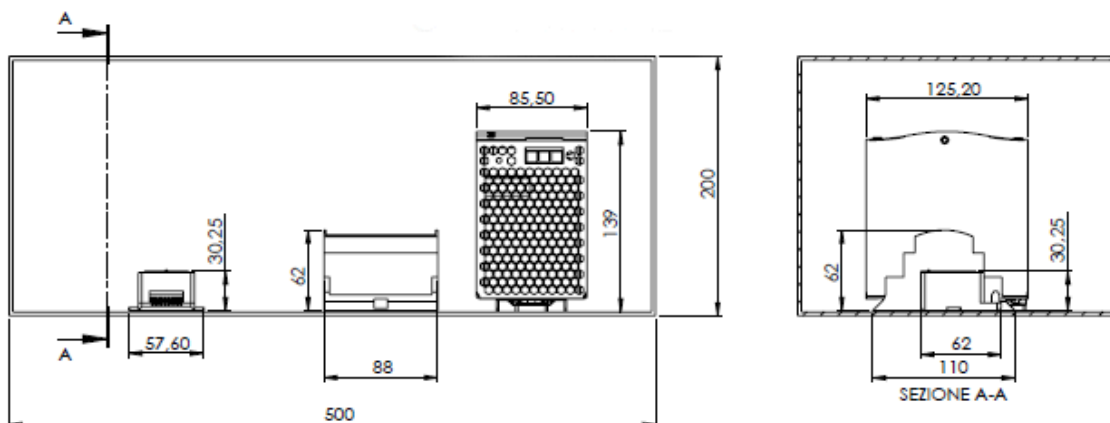
DANGER

The device operates at low voltage (12/24 V DC), therefore the manufacturer declines all responsibility for damage resulting from connections that do not comply with these voltages or do not comply with the standards and legislation in force in the country in which it is installed.

INSPECTION COMPARTMENT



During installation, inspection compartments must be provided to allow access for any maintenance in the period after assembly.



THE DIMENSIONS REFER TO THE EMPTY SPACE TO BE LEFT FOR INSPECTION OF ELECTRICAL COMPONENTS, NOT TO A PHYSICAL BOX.



IT IS RECOMMENDED TO INSTALL THE REMOTE CONTROL RECEIVER AS FAR AS POSSIBLE FROM THE POWER SUPPLY AND OTHER ELECTRONIC EQUIPMENT THAT COULD CAUSE ELECTROMAGNETIC INTERFERENCE.



CLEANING AND MAINTENANCE



DANGER OF ELECTRICITY

Isolare le fonti di energia prima di effettuare operazioni di pulizia e/o manutenzione.



DANGER

Cleaning and maintenance operations must be carried out by qualified and properly equipped personnel.

CLEANING

To clean surfaces treated with finishing processes (painting, anodizing, etc.), do not use abrasive or solvent-based products. Preferably use household cleaning products or soap and water.



WARNING

Do not use liquids containing solvents or abrasives to clean the mechanism.



WARNING

During cleaning, do not touch the electrical and electronic connections/ components.

ROUTINE MAINTENANCE

- Keep the device away from dusty areas (such as shavings or similar debris).
- Clean the device after installation to prevent dust or dirt from compromising its operation.
- Periodically clean the mechanism and the surrounding area.

EXTRAORDINARY MAINTENANCE

- Apply lubricant (e.g. grease) to the moving parts (bevel gears / pinions on rack) to ensure correct long-term operation.

TROUBLESHOOTING

MALFUNCTION	PROBABLE CAUSE	ACTION
The mechanism does not operate	No power supply	Make sure the power supply unit is connected to the mains and that the power LED is on. Check that the power LED on the control unit is lit.
	Incorrect electrical connection	Check the electrical connections according to the wiring diagram. Contact a Sea & Symphony technician.
	Loss of continuity in the wiring. Faulty remote control / flat battery. Faulty power supply unit. Faulty control unit. Protection triggered by the control unit.	Check whether the red LED light on the remote control appears weak; if so, replace the battery. In all other cases, contact a Sea & Symphony technician.
The mechanism operates intermittently	Inadequate power supply unit. Radio frequency interference.	Replace the power supply unit. Move the remote control receiver as far as possible from the power supply unit.
The mechanism moves in one direction only	Probable disconnection of a limit switch wire. Broken limit switch. Loss of continuity in the wiring.	Check that no wires are disconnected. Contact a Sea & Symphony technician.
The motor runs but the mechanism does not move	Possible disconnection of the transmission. The motors may be unlocked (see page 26).	Contact a Sea & Symphony technician.



DISPOSAL AND DEMOLITION



Pursuant to Article 13 of Legislative Decree No. 151 of 25 July 2005, implementing Directives 2002/95/EC, 2002/96/EC and 2003/108/EC on the reduction of hazardous substances in electrical and electronic equipment and the disposal of waste, and Legislative Decree No. 188 of 20 November 2008, implementing Directive 2006/66/EC on batteries, accumulators and their waste, which repeals Directive 91/157/EEC: the crossed-out bin symbol shown on the equipment or packaging indicates that the product must be collected separately from other waste at the end of its useful life.

The user must therefore dispose of the equipment or its exhausted components at the end of their life at an appropriate electronic and electrotechnical waste collection centre, or return it to the retailer when purchasing a new equivalent product, on a one-for-one basis.

Proper separate collection for the subsequent recycling, treatment and environmentally compatible disposal of decommissioned equipment helps to avoid potential negative effects on the environment and health, and promotes the reuse and/or recycling of the materials of which the equipment is composed.

Unlawful disposal of the product by the user will result in the application of administrative penalties provided for by current regulations, relieving the seller and manufacturer of all liability.



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