

MLST01

Motorised Lift Floor Stand



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Please read this manual carefully before making any adjustments and retain it for future reference.

Images in the manual are for reference only. If any details in this document are unclear, please contact your local representative for more information.

Operational Precautions

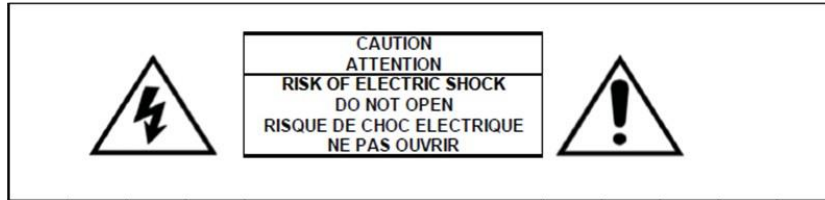
The interior design of Stand has limited dustproof/waterproof capability. Please follow the precautions during installation and use.

- Screen storage/working environment requirements:
 - ± Storage temperature: -20°C~60°C (-4°F~104°F); Relative humidity: 10%~90%;
 - ± Working temperature: 0°C~40°C (32°F~104°F); Relative humidity: 10%~90%;
- Installation requirements:
 - ± Installation area of stand should be free from leakages or under the air conditioner outlet to avoid damage of stand or circuit board caused by moisture or condensation. The installation environment humidity must be less than 60% (non-condensation state). It is recommended to install a dehumidifier in the environment to control the humidity.
 - ± Do not place this stand in these environments as the screen could be susceptible to the following: Metal Dust (which could cause damage to the stand and circuit boards), excessive dust and or dusty conditions (which could affect the screen performance).

SAFETY

Please follow all warnings, precautions and maintenance as recommended in this user manual.

Safety Instructions



- Always ensure that the unit is properly earthed and power connections are secured correctly.
- Only use attachments/accessories specified by the manufacturer.
- Do not block any ventilation openings. To ensure reliable operation of the device and to protect from overheating, it is recommended to install the device in a location that does not block ventilation. Do not put the device in an enclosure such as a book case or a cabinet that restricts air flow.
- Do not use the device near water or moisture. To reduce the risk of fire and/or electric shock, do not expose the device to rain or moisture.
- Do not install near heat sources such as radiators, heaters, stoves or any other apparatus, such as amplifiers, that emits heat.
- Do not let objects or liquids enter the device. They may touch dangerous voltage ports or short out parts that could result in fire or electric shock.
- Do not place the device on an unstable, uneven surface. The device may fall over, resulting in injury or damage to the device.
- Do not setup the device in places where it might be subject to vibration or shock.
- Do not use any hard or sharp object to operate the screen.
- Do not use the device if it has been physically damaged. Physical damage would be (but not limited to):
 - ± The device has been dropped.
 - ± Power supply cord or plug has been damaged.
 - ± Liquid has been spilled on the device.
 - ± The device has been exposed to rain or moisture.
 - ± Something has fallen into the device or something is loose inside.
- Do not attempt to service the device yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please call Optoma before you send the device for repair.
- Disconnect the power plug from AC outlet if the device is not being used for a long period of time.
- Remove the batteries from the remote control before storage. If the batteries are left in the remote for long periods, they may leak.
- Turn off and unplug the power plug from the AC outlet before cleaning the device.
- Use a soft dry cloth to clean the stand housing. Do not use abrasive cleaners, waxes or solvents to clean the device.
- See the device enclosure for safety related markings.
- The device should only be repaired by appropriate service personnel.
- Always power off and unplug all cables before moving the stand.

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Declaration of Conformity for EU Countries

- EMC Directive 2014/30/EU (Including amendments)
- Low Voltage Directive 2014/35/EU

WEEE



Disposal instructions

Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle it.

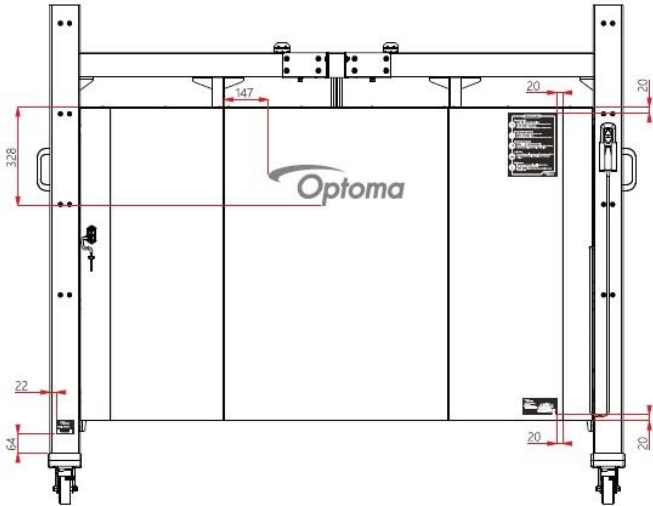
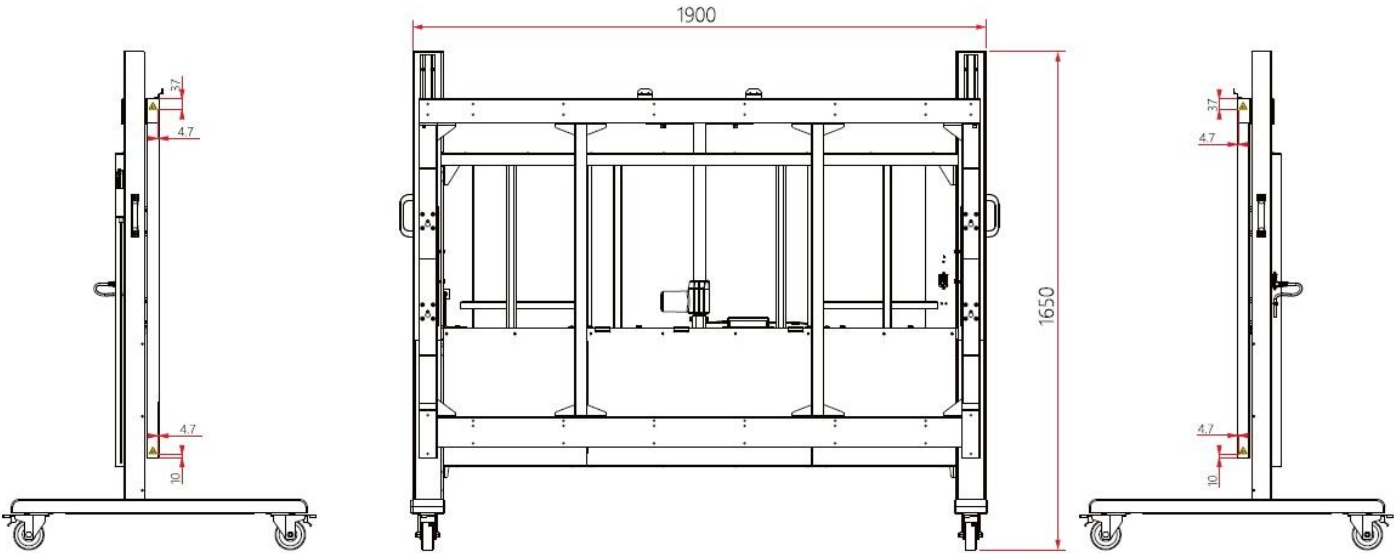
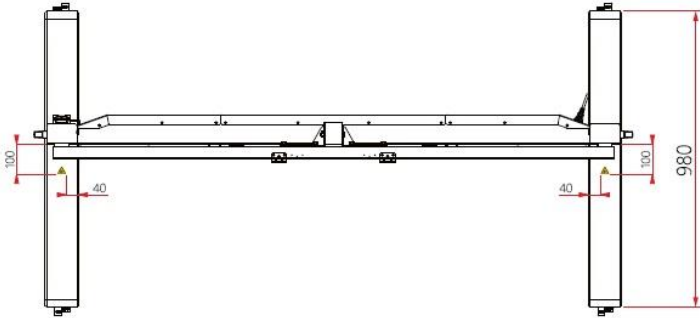
INTRODUCTION

Product Specification

Parameter	
Dimensions	1900×980×1650mm
Lifting stroke	500mm
Lift time (fall time)	< 50S
Packaging dimensions (L×W×H)	1985×1135×547.6mm
Net weight	156kg
Gross weight	290kg
Max load capacity	300kg
Size options of the products that can be loaded	108" /135" /163"
Input voltage	100V~240V AC
Input current	3.3A
Operating temperature	0°C~40°C
Operating humidity	10% ~ 90%
Storage temperature	-20°C~60°C
Storage humidity	10% ~ 90%

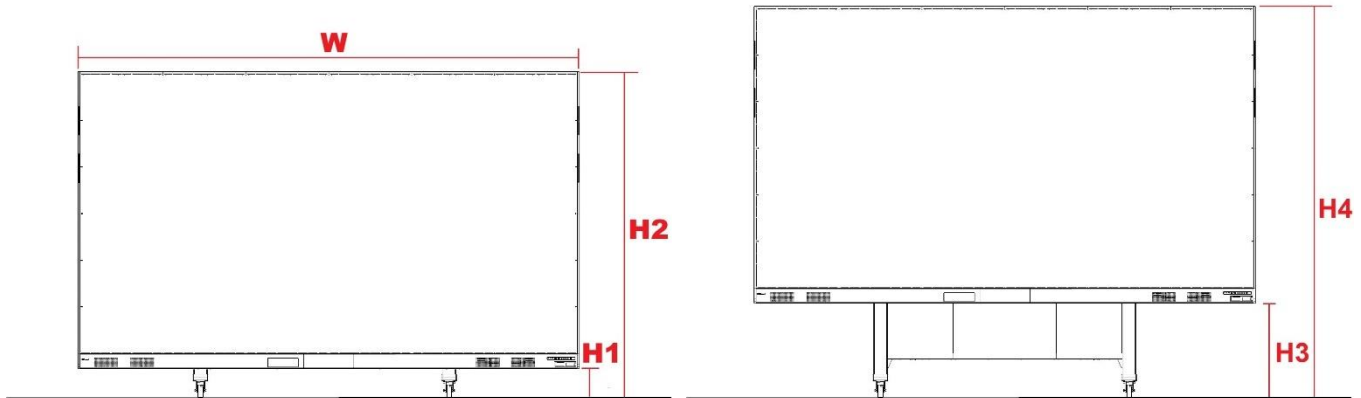
INTRODUCTION

Product Overview



INTRODUCTION

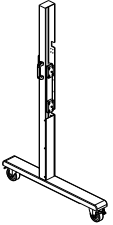
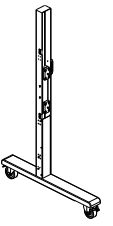
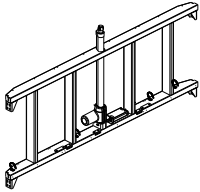
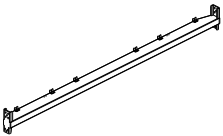
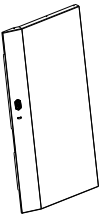
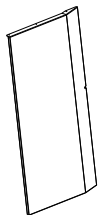

Product View with Display



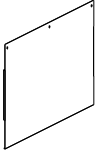
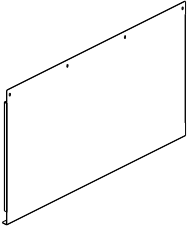
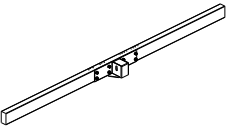
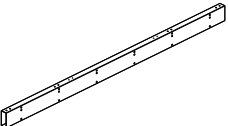
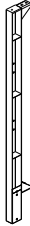
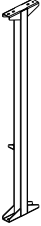
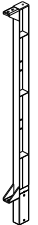
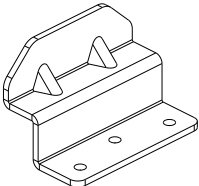
Model	W	H1	H2	H3	H4
FHDC108	2431 mm	182 mm	1658 mm	682 mm	2158mm
FHDC135	3030 mm	182 mm	1996 mm	682 mm	2496 mm
FHDC163	3630 mm	182 mm	2333 mm	682 mm	2833 mm

PARTS LIST






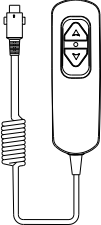

PARTS LIST

No	illustration	Part Name	Quantity	Note
1		Left Pillar	1 PCS	<ul style="list-style-type: none"> Provide a vertical structure for installing the main beam and supporting rollers, equipped with casters, guide rails, handles, and a controller placement box.
2		Right Column	1 PCS	<ul style="list-style-type: none"> Provide a vertical structure for installing the main beam and supporting rollers, equipped with casters, guide rails, and handles.
3		Crossbeam Assembly	1 PCS	<ul style="list-style-type: none"> Provide a horizontal structure between two vertical column components, and provide an installation rod and power adapter to provide power and control for lifting and lowering.
4		Sill Beam	1 PCS	<ul style="list-style-type: none"> Provide a horizontal structure between two vertical column components, and provide bottom lateral support and connection.
5		Rear left cover plate	1 PCS	<ul style="list-style-type: none"> The back of the tripod provides a cover for appearance, with an AC socket, a cable, and a power cord fastening buckle.
6		Rear right cover plate	1 PCS	<ul style="list-style-type: none"> The back of the tripod provides a cover for appearance.
7		Rear middle cover plate	1 PCS	<ul style="list-style-type: none"> The back of the tripod provides an appearance cover with a silk-screened LOGO.

PARTS LIST

8		Front left and right cover plates	2 PCS	<ul style="list-style-type: none"> Provide appearance cover in front of the tripod.
9		Front middle cover plate	1 PCS	<ul style="list-style-type: none"> Provide appearance cover in front of the tripod.
10		Top beam of the moveable frame	1 PCS	<ul style="list-style-type: none"> The lifting and lowering movable frame assembly provides a horizontal structure and an attachment surface for an installation rod.
11		Bottom beam of the moveable frame	1 PCS	<ul style="list-style-type: none"> The lifting and lowering movable frame assembly provides a horizontal structure and an attachment surface for an installation rod.
12		Left vertical beam of the moveable frame	1 PCS	<ul style="list-style-type: none"> The lifting and lowering movable frame assembly provides a vertical structure and offers a connection position for the lifting and lowering of the column.
13		Center vertical beam of the moveable frame	2 PCS	<ul style="list-style-type: none"> The lifting and lowering movable frame assembly provides a vertical structure and a connection position for lifting and lowering with the column.
14		Right vertical beam of the moveable frame	1 PCS	<ul style="list-style-type: none"> The lifting and lowering movable frame assembly provides a vertical structure, connects two horizontal beams, ensures overall strength, and incorporates a limiting mechanism when lowered to the limit.
15		Anti-slip bracket	2 PCS	<ul style="list-style-type: none"> It Prevents the entire LED unit from sliding off the ends of the mounting bracket.

PARTS LIST

16		Flat-head shaft pin	1 PCS	<ul style="list-style-type: none"> It serves as a connecting and load-bearing component between the push rod and the back frame.
17		Type B split pin	1 PCS	<ul style="list-style-type: none"> It serves to prevent the falling off of the flat-headed shaft pin.
18		M10 flat washer	2 PCS	<ul style="list-style-type: none"> It serves as the coordination between the flat-head axle pin and the top frame.
19		HM6x15 screw	75 PCS	<ul style="list-style-type: none"> Fix components such as beams. Note: There are 5 PCS for loss reserve
20		TM3x6 screw	41 PCS	<ul style="list-style-type: none"> Fixed cover plates, anti-slip brackets, and other components Note: There are 5 PCS for loss allowance
21		Lifting device	1 PCS	<ul style="list-style-type: none"> Used for controlling the lifting and lowering of the backplane.
22		M8x35 screw	21 PCS	<ul style="list-style-type: none"> Fix the wall-mounted strip components of the entire machine.

PARTS LIST

Screw tightening torque standard

NO	illustration	Part Name	Tightening torque (N. m)
1		TM3x6 screw	0.8±0.1
2		HM6x15 screw	8.0±1
3		M8x35 screw	25±3

PARTS LIST

Tool parts

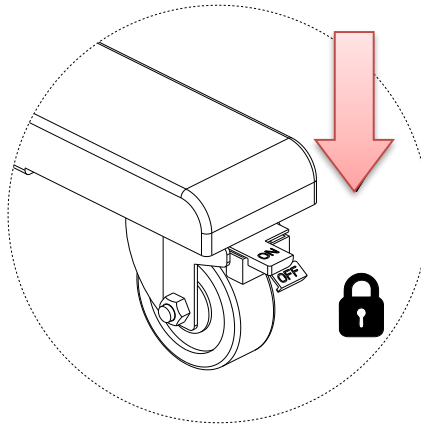
No	Image	Part Name	Quantity	Note
1		Phillips screwdriver	1 PCS	<ul style="list-style-type: none">Tools for dismantling and installing Phillips screws.
2		No. 5 hexagonal wrench	1 PCS	<ul style="list-style-type: none">This tool is used to operate the side hook mechanism inside the unit chassis for assembly or disassembly.

INSTALLATION GUIDE

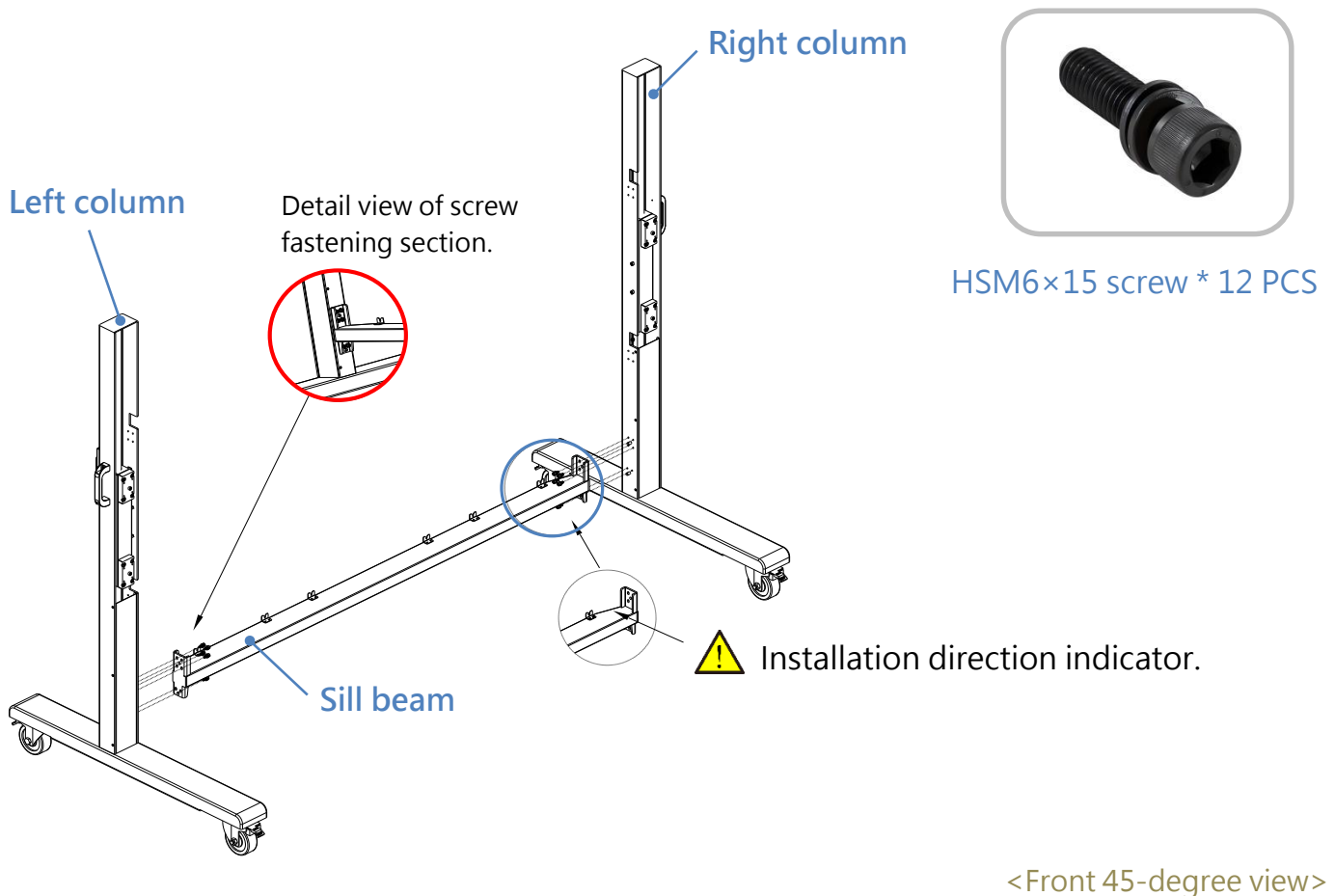
INSTALLATION GUIDE

- Assemble the structural support frame of the stand base.

Step 1: First, depress the caster's OFF brake to prevent it from rolling during installation.



Step 2: Installation of the sill beam according to the direction.

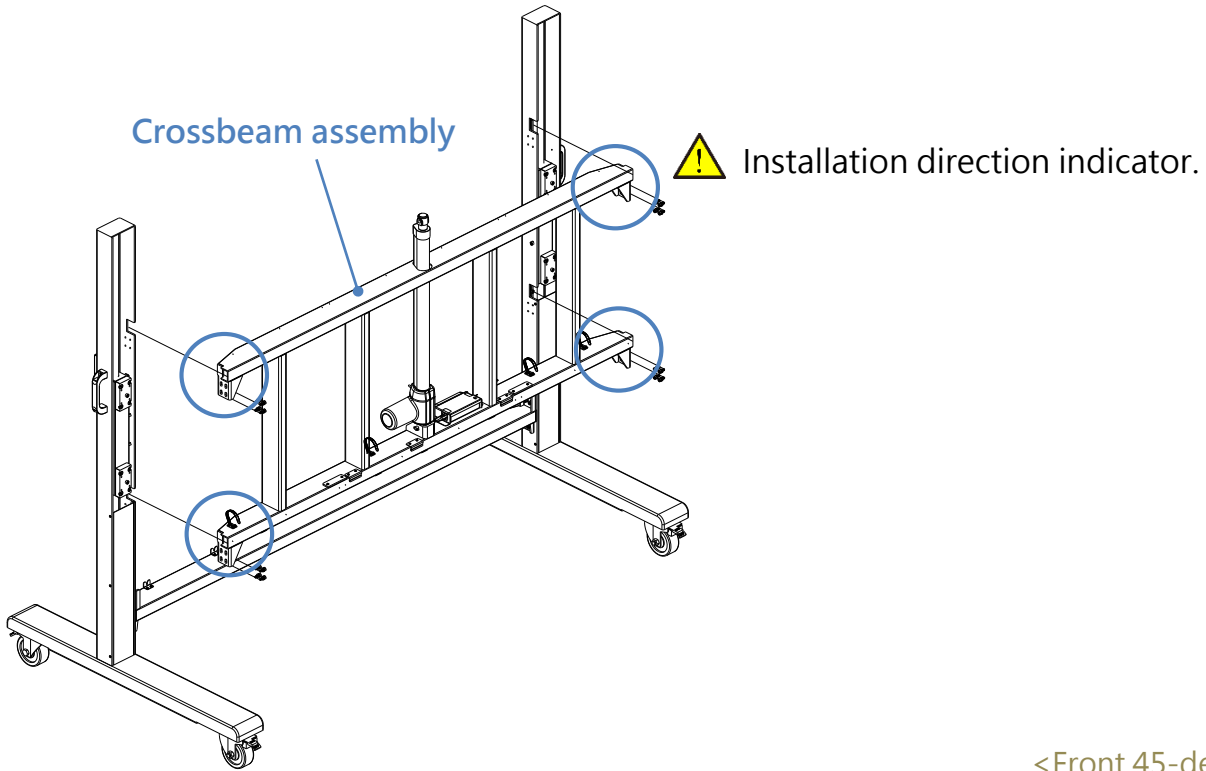


Note: Pre-tighten the screws first, and only tighten all the screws together after the crossbeam assembly (installation number 2) is installed.

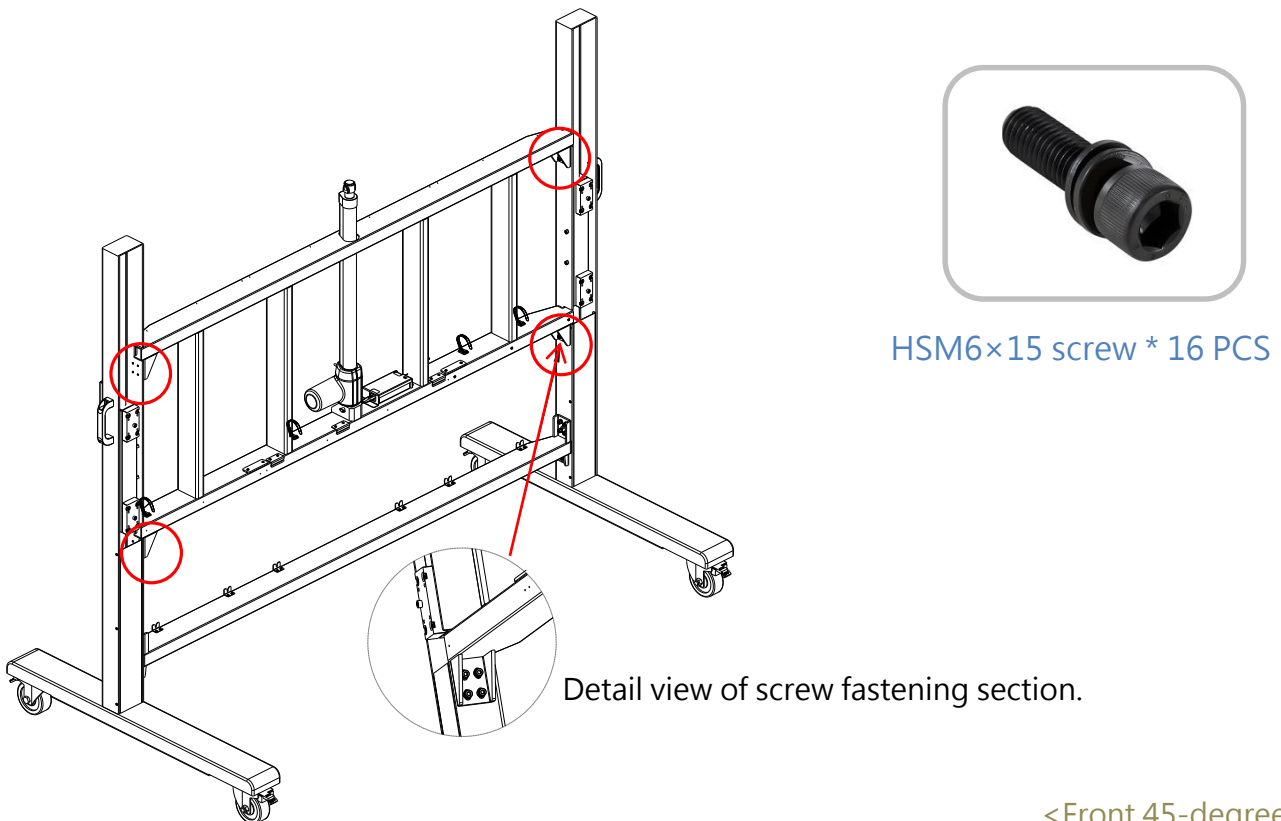
INSTALLATION GUIDE

Installation of crossbeam components

Step 3: Embed the crossbeam assembly into the positioning grooves of the left and right columns of the stand.



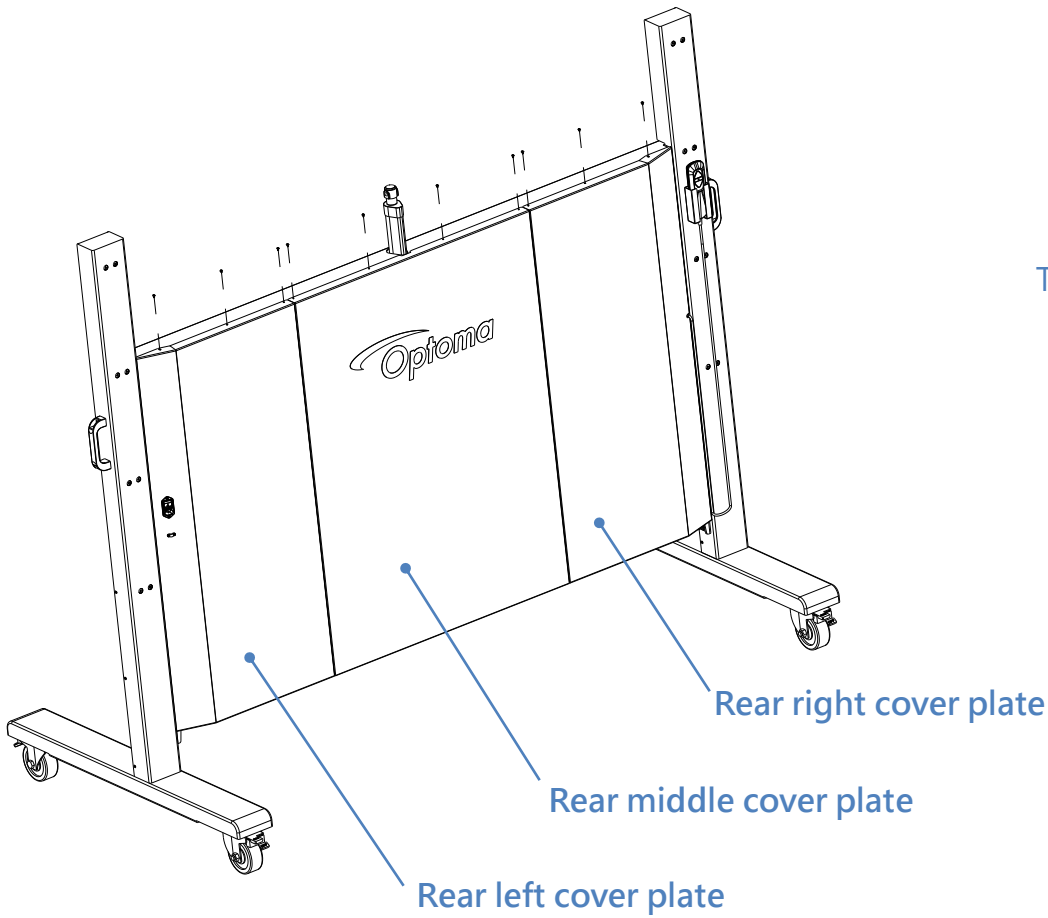
Step 4: Use 16 HSM6×15 screws to fasten the crossbeam assembly to the columns at the screw holes marked with red circles in the illustration, forming a single unit.



INSTALLATION GUIDE

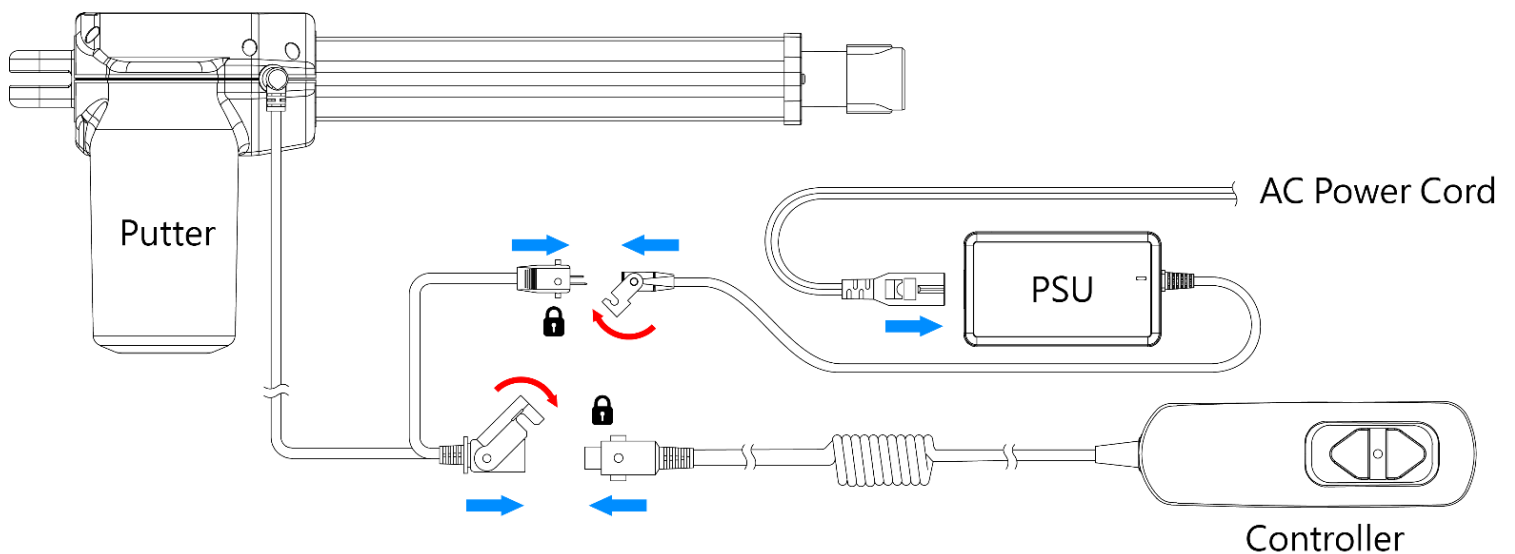
Installation of column frame and rear cover plate

- Next, we will use 10 TM3×6 screws to assemble the rear cover plate of the stand.



TM3×6 screw * 10 PCS

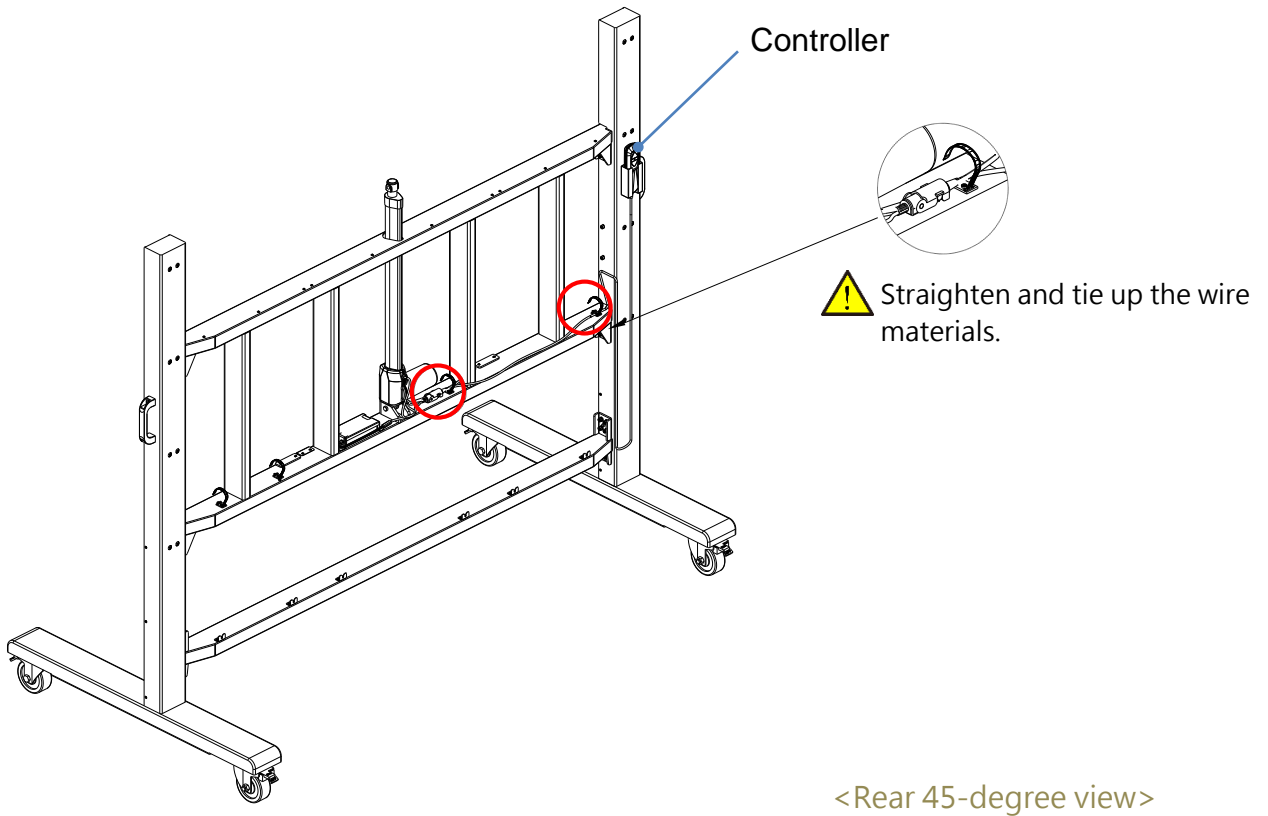
<Rear 45-degree view>



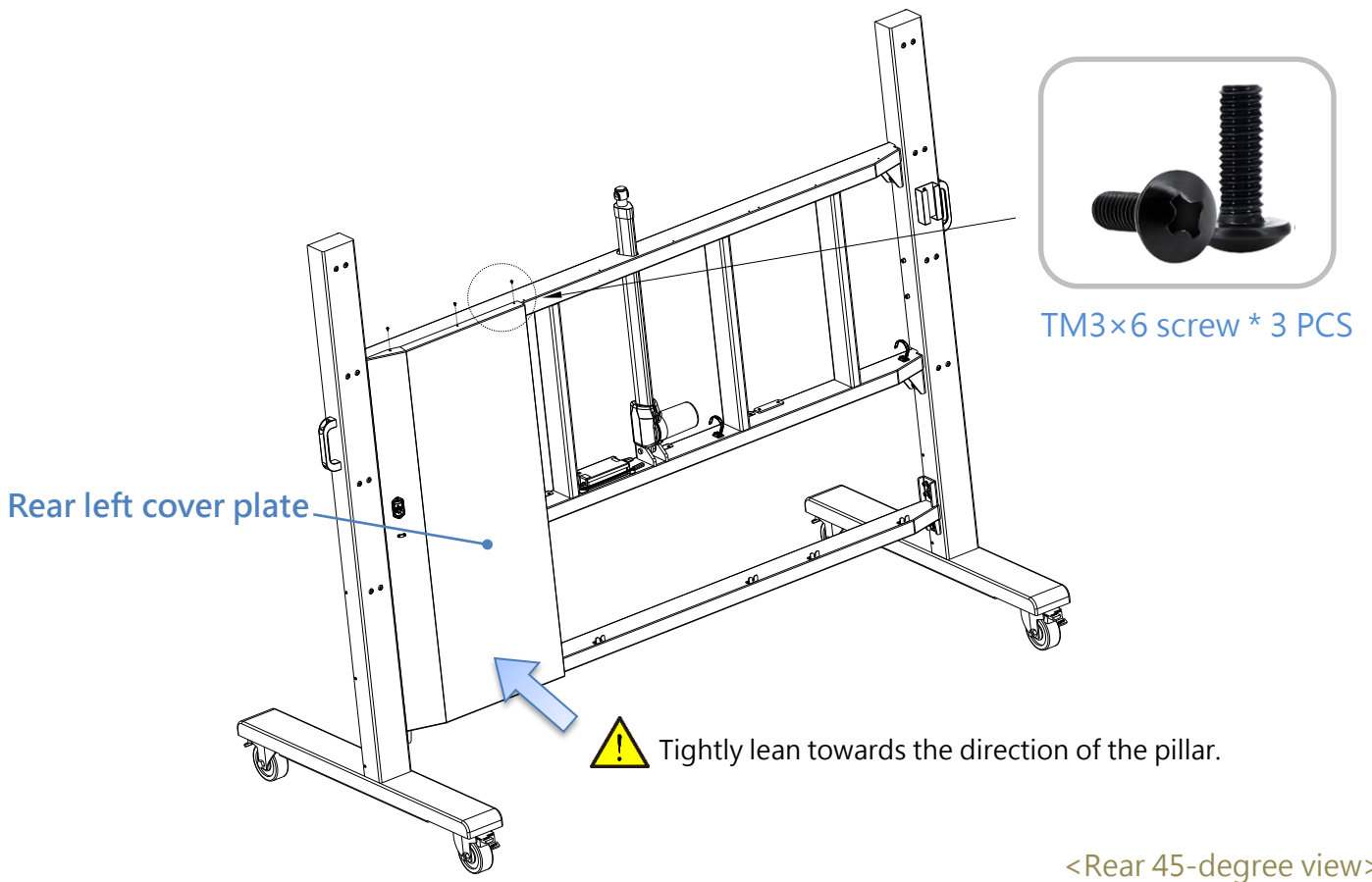
- Wiring diagram for the motorized lifting column.

INSTALLATION GUIDE

Step 1: Connect the controller to the motorized lifting column wiring

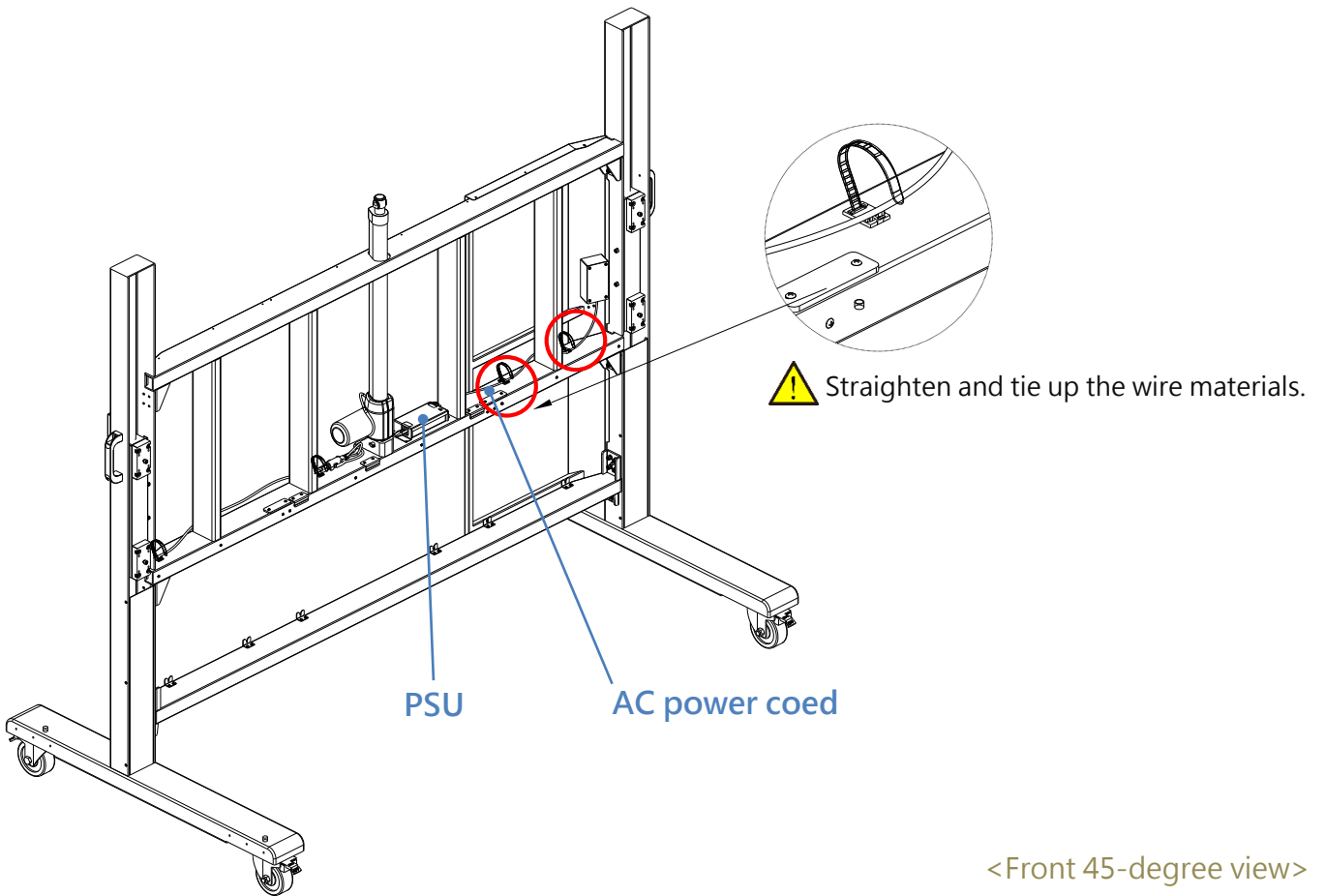


Step 2: Assemble the Rear left cover plate

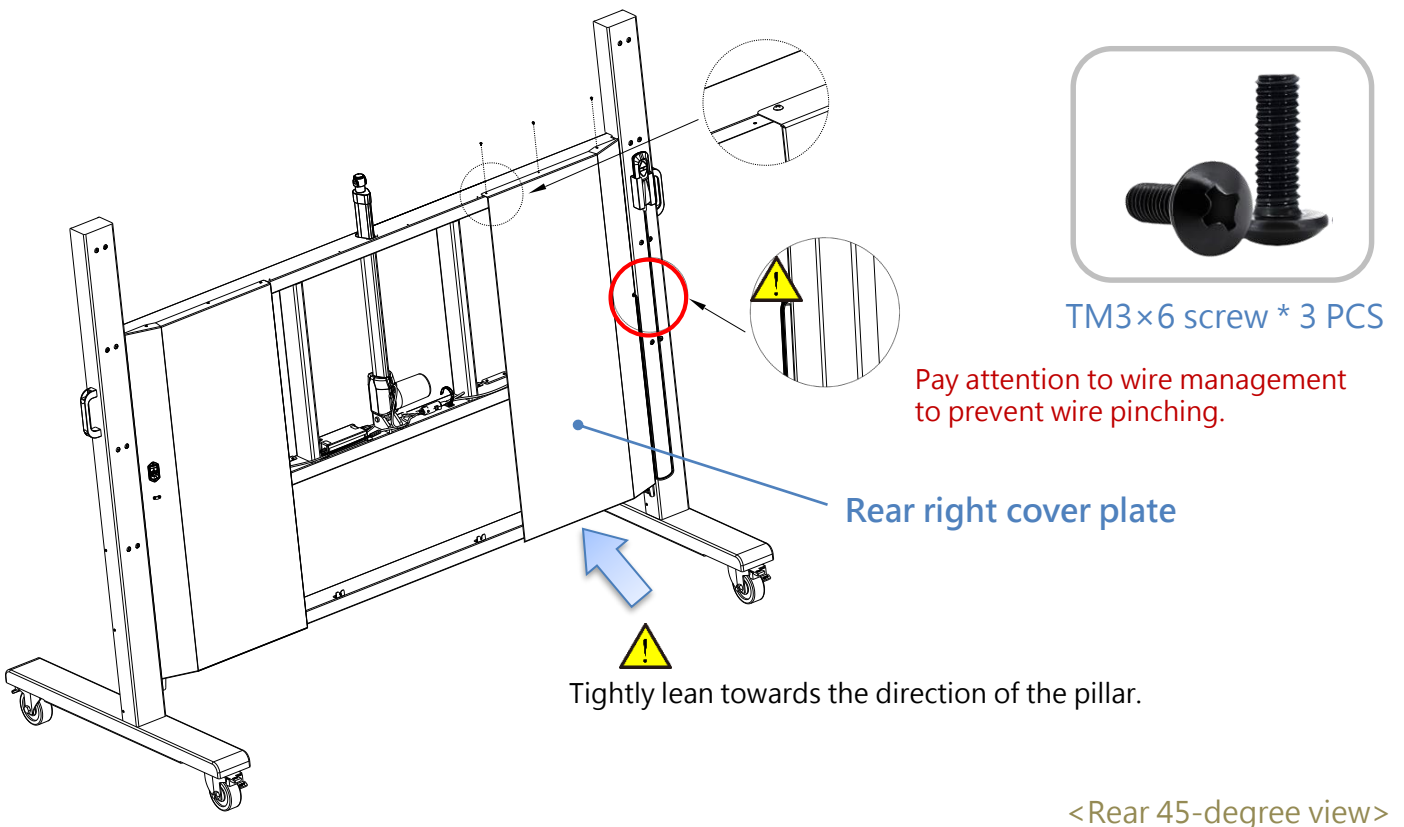


INSTALLATION GUIDE

Step 3: Connect the AC power cord to the PSU

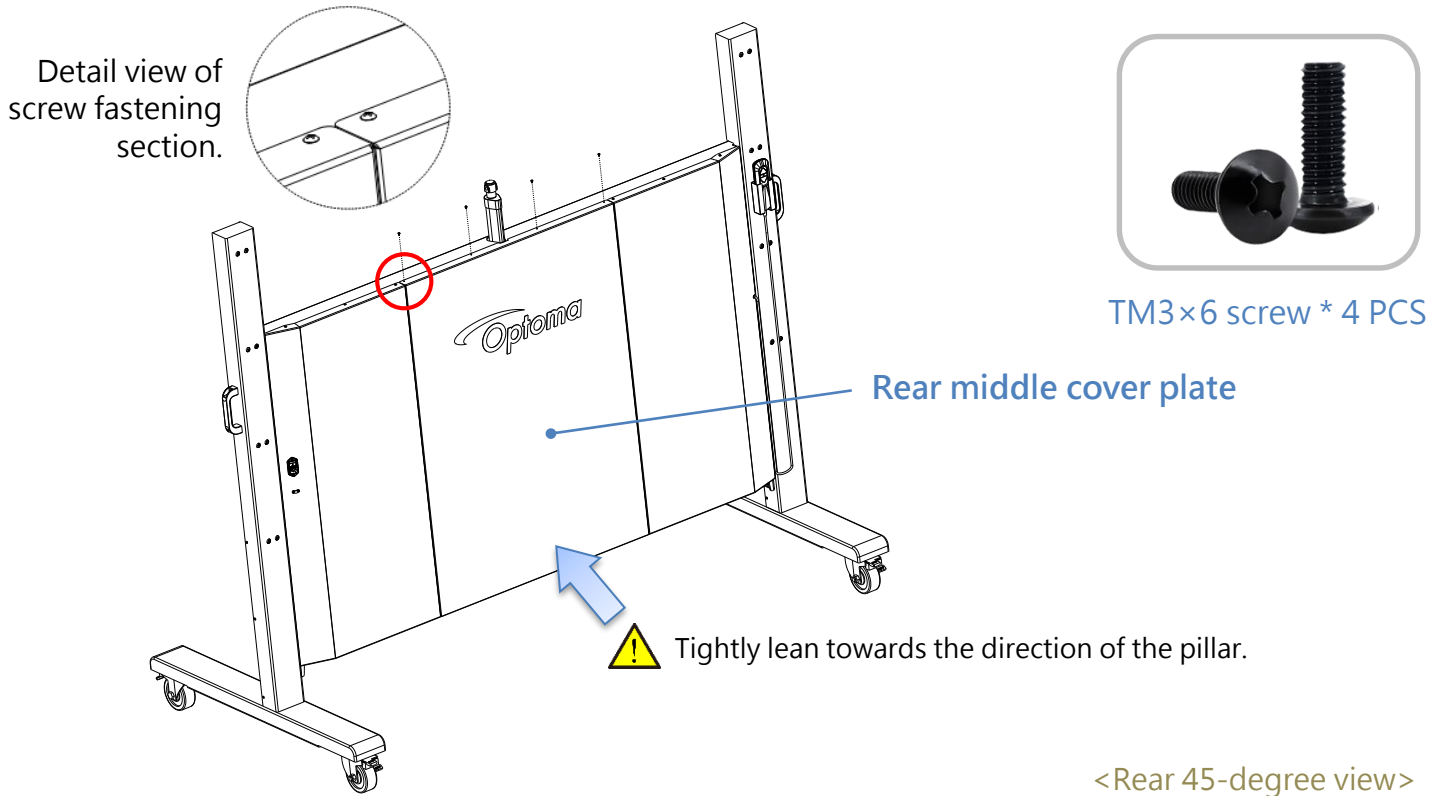


Step 4: Installation of column frame and the rear right cover plate

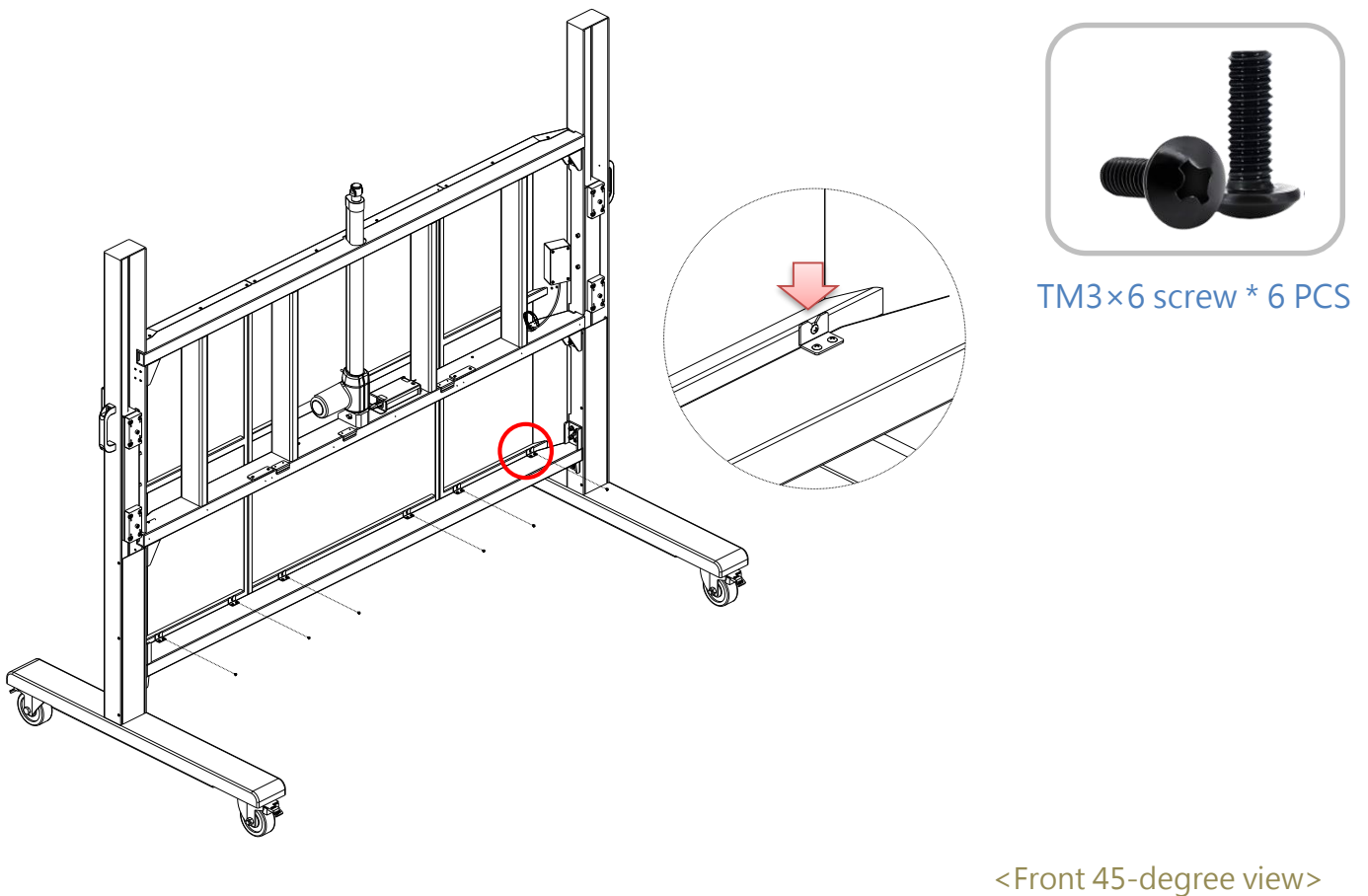


INSTALLATION GUIDE

Step 5: Installation of column frame and rear middle cover plate



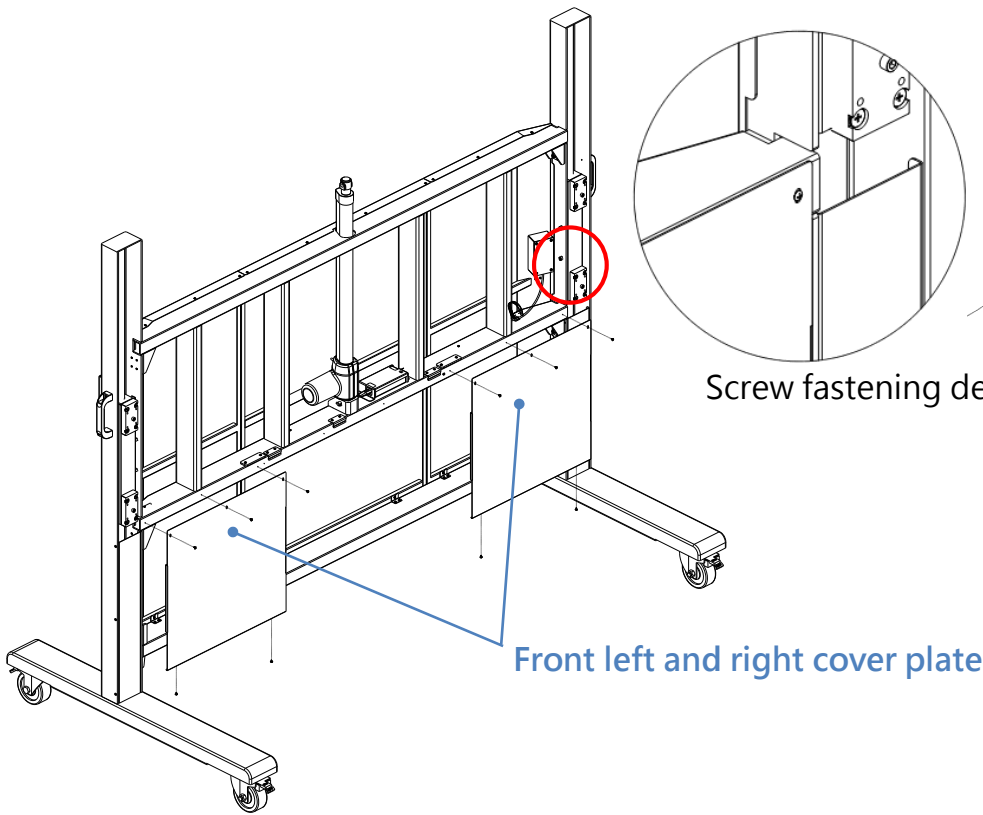
Step 6: Secure the rear cover plate to the crossbeam using TM3×6 screws from the inner side.



INSTALLATION GUIDE

Fix the front cover plate

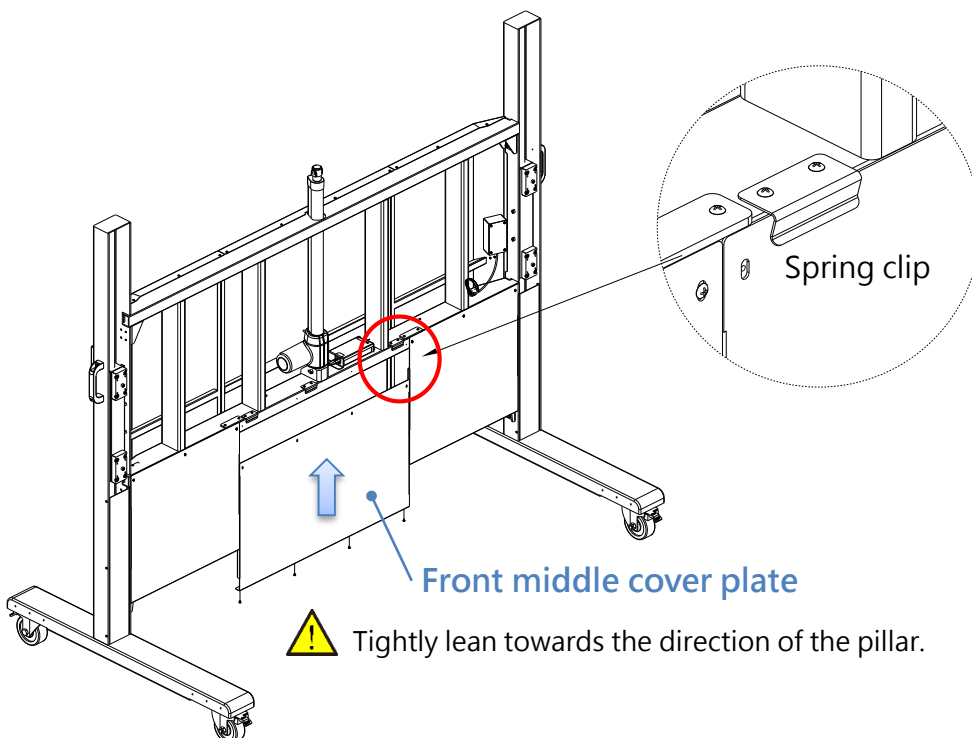
Step 1: Fix the front left and right cover plate



TM3×6 screw * 10 PCS

<Front 45-degree view>

Step 2: Front middle cover plate – slide up to engage spring clips, fasten with 4×TM3×6 screws.



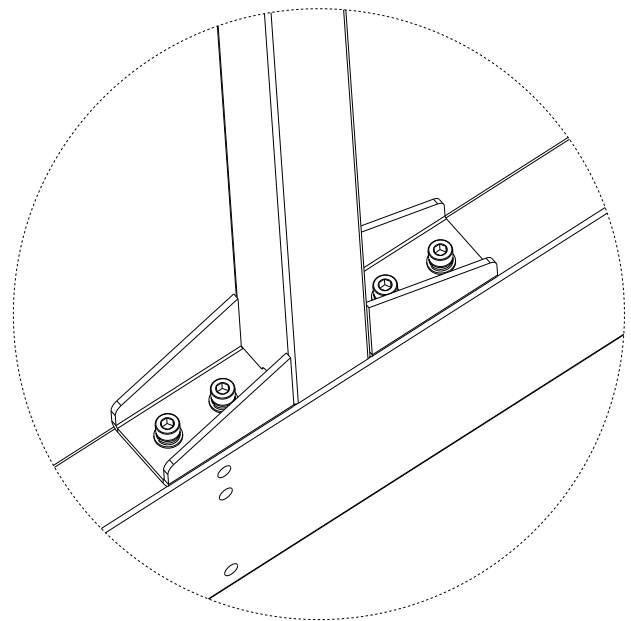
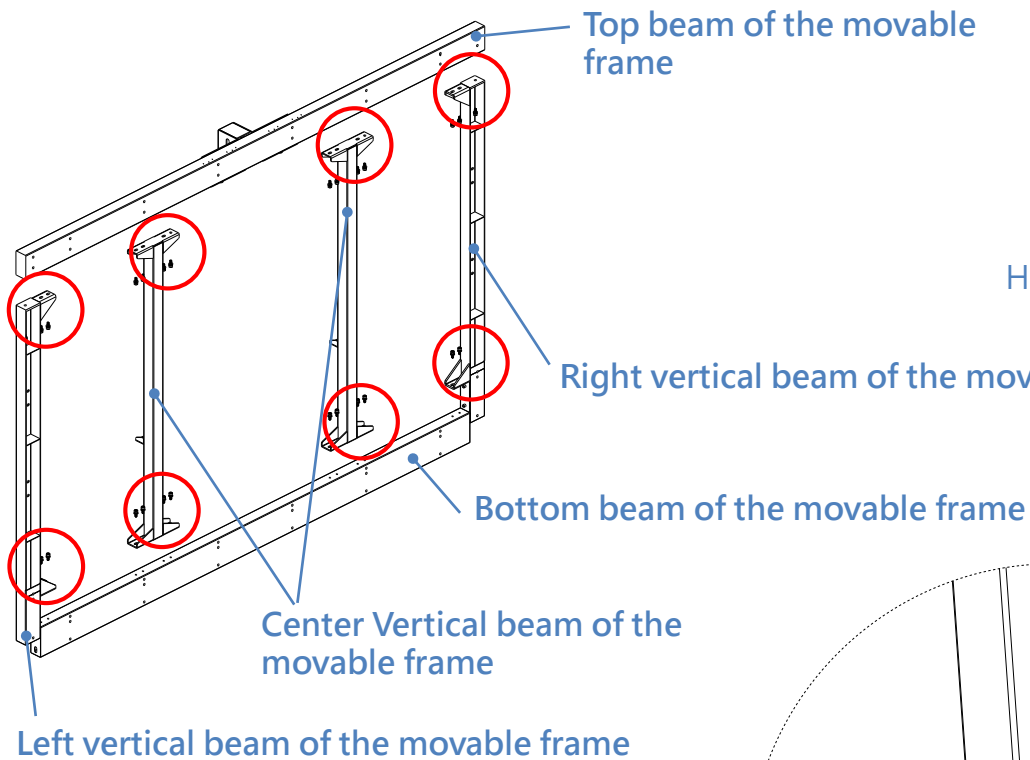
TM3×6 screw * 4 PCS

<Front 45-degree view>

INSTALLATION GUIDE

Assembly of rear frame top beam

- The top and bottom beams of the movable frame are integrated with the left, center, and right vertical beams using 26 HSM 6×15 screws.



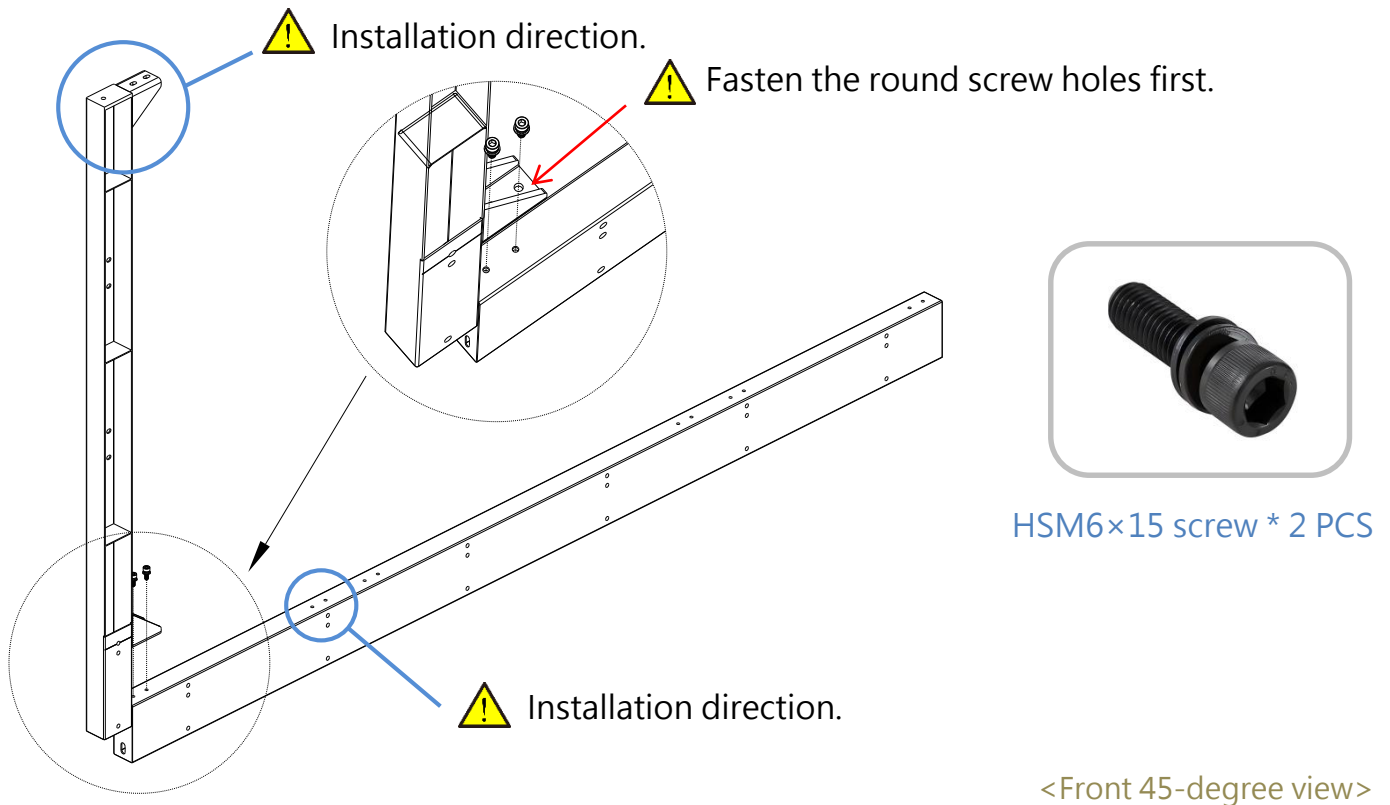
<Front 45-degree view>

Note:

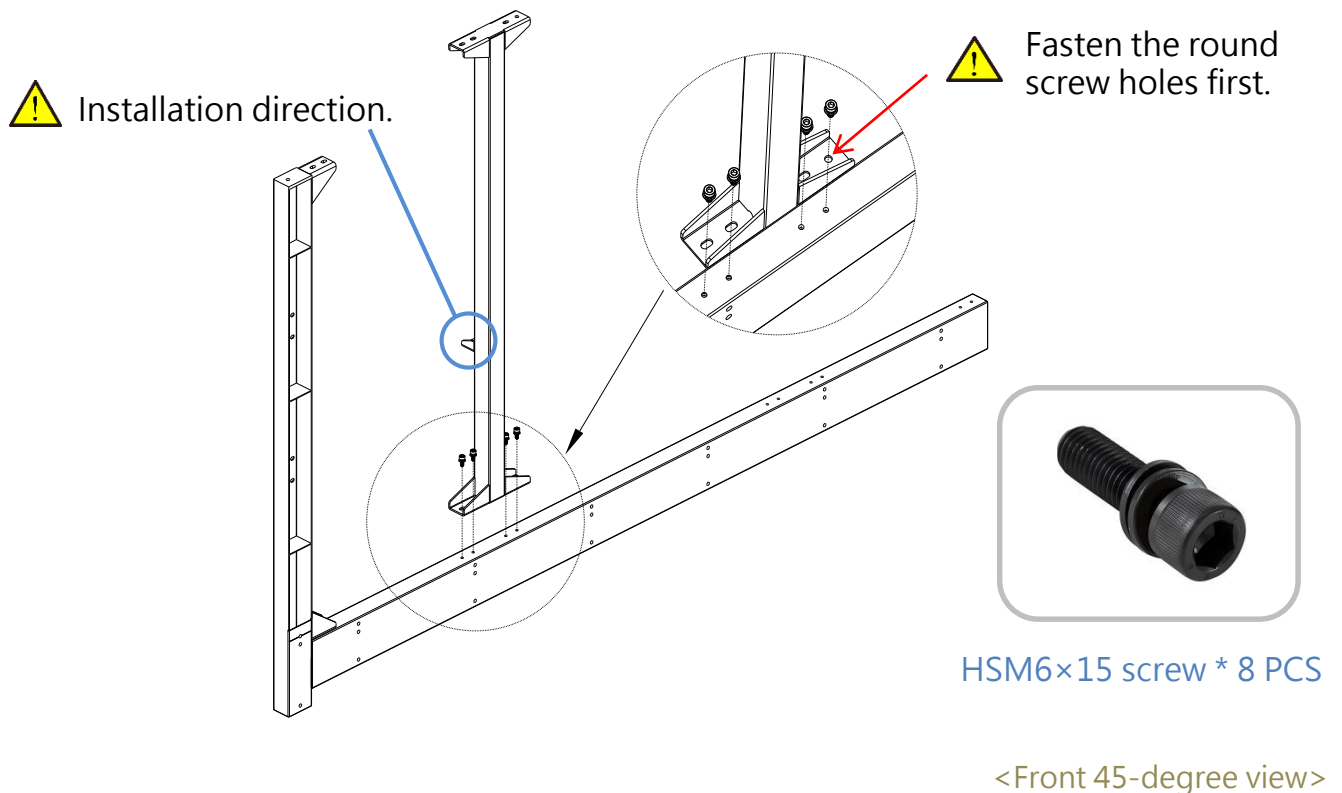
- 1) Pay attention to the direction and position during installation.
- 2) Pre-tighten all screws first, and then uniformly tighten them after all parts are assembled.

INSTALLATION GUIDE

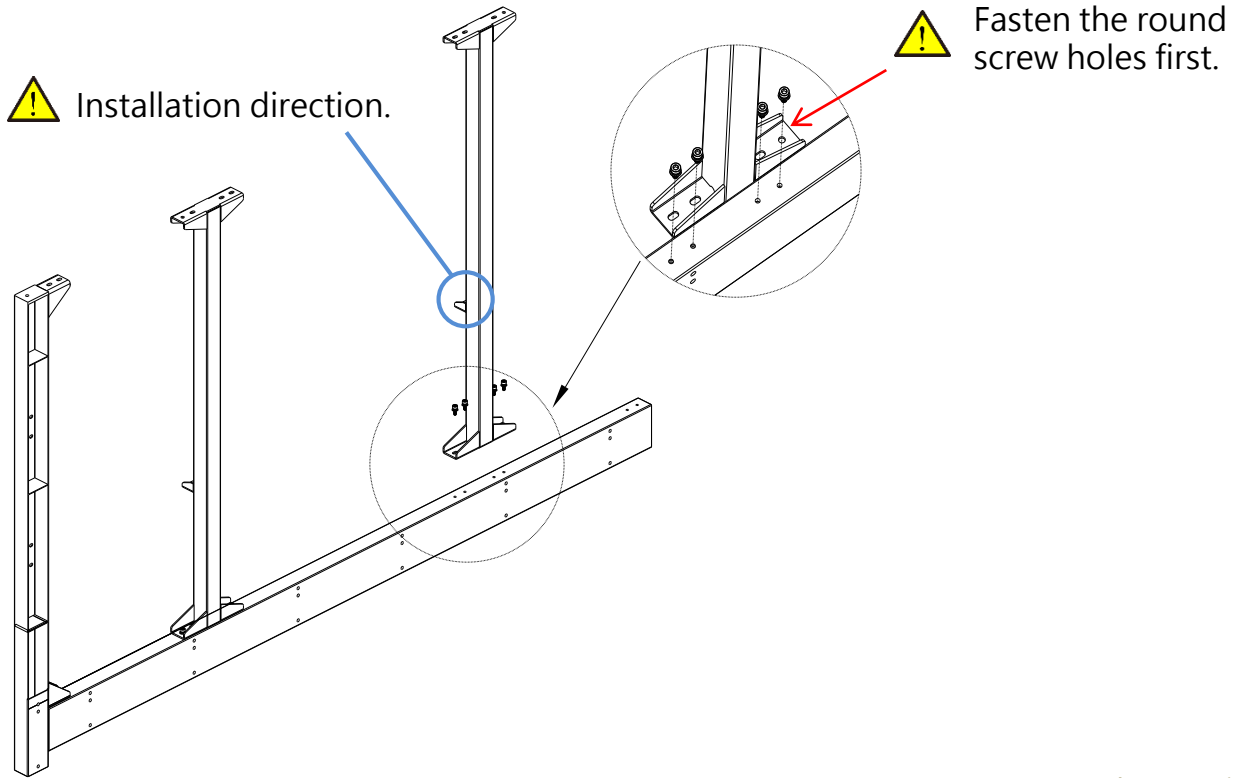
Step 1: As shown in the figure, the left vertical beam of the movable frame is secured to the bottom beam of the movable frame using two HSM6×15 screws.



Step 2: Next, as shown in the figure, secure the two center vertical beams of the movable frame onto the bottom beam of the movable frame using eight HSM6×15 screws.

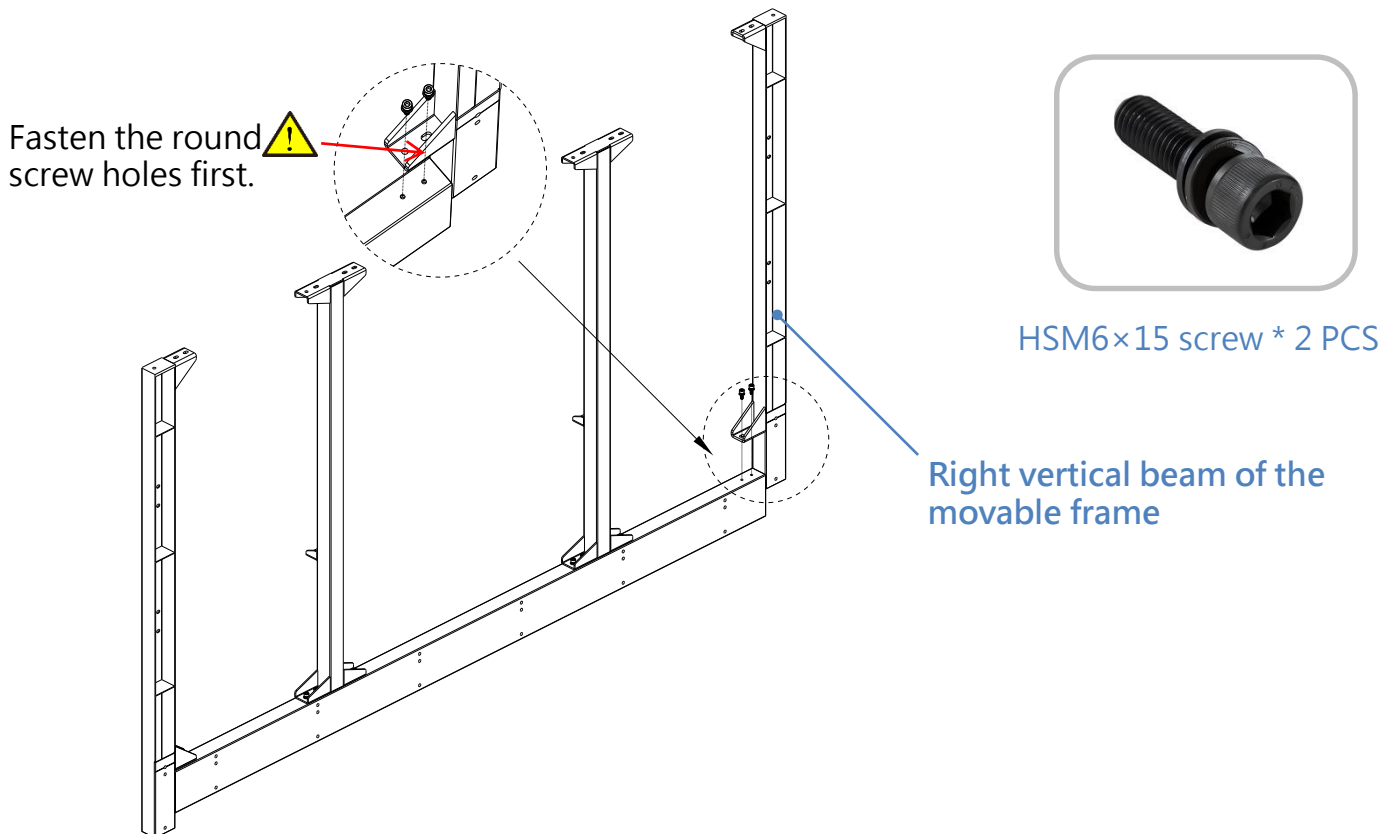


INSTALLATION GUIDE



<Front 45-degree view>

Step 4: As shown in the figure, secure the right vertical beam of the movable frame onto the bottom beam of the movable frame using two HSM6×15 screws.



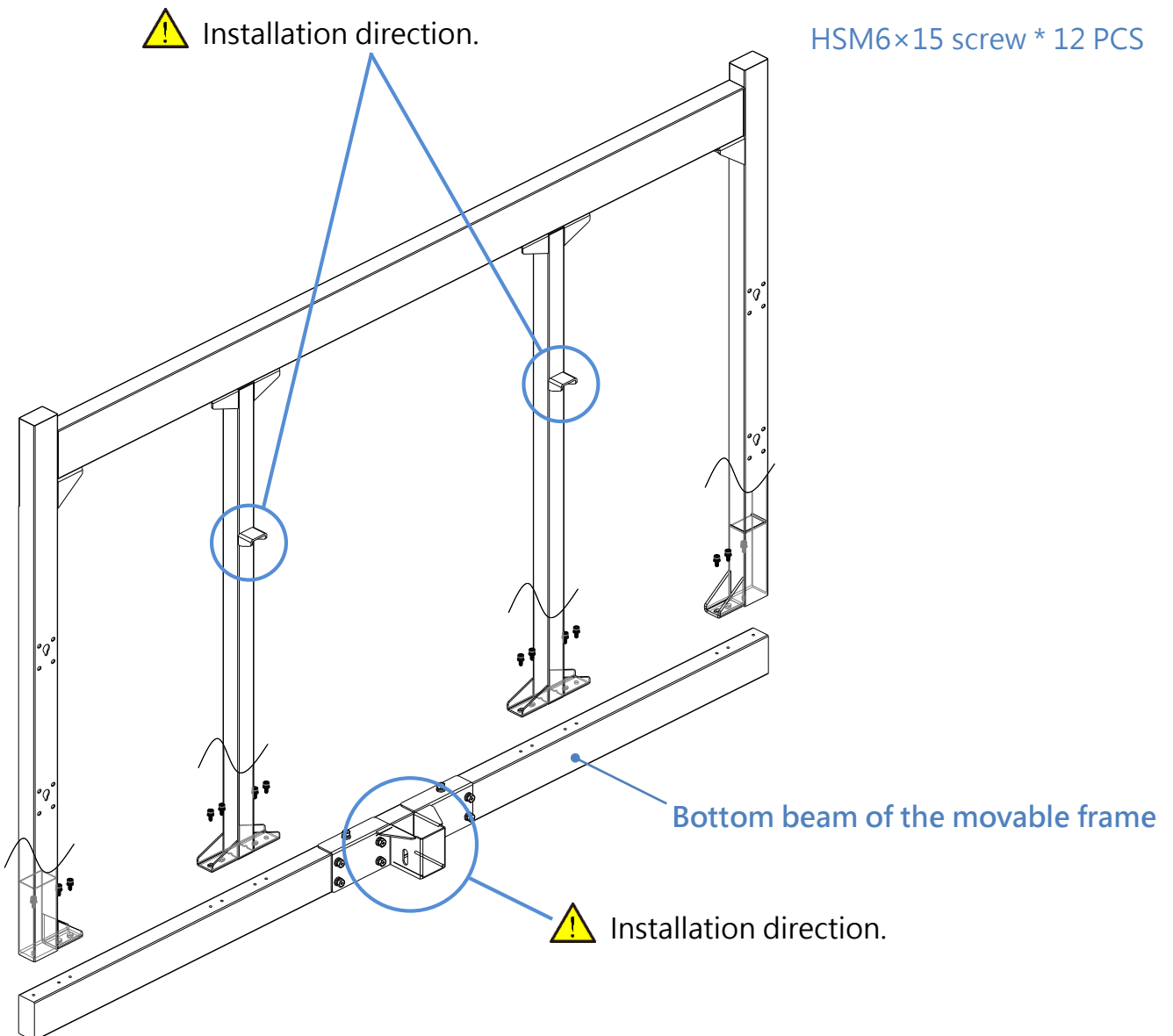
<Front 45-degree view>

INSTALLATION GUIDE

Step 5: As shown in the figure, invert the assembled movable frame and place it onto the Bottom beam of the movable frame component. Secure the two parts together using twelve (12) HSM6×15 screws to complete the assembly of the movable frame.



HSM6×15 screw * 12 PCS



<Rear 45-degree view>

INSTALLATION GUIDE

Movable frame fixation

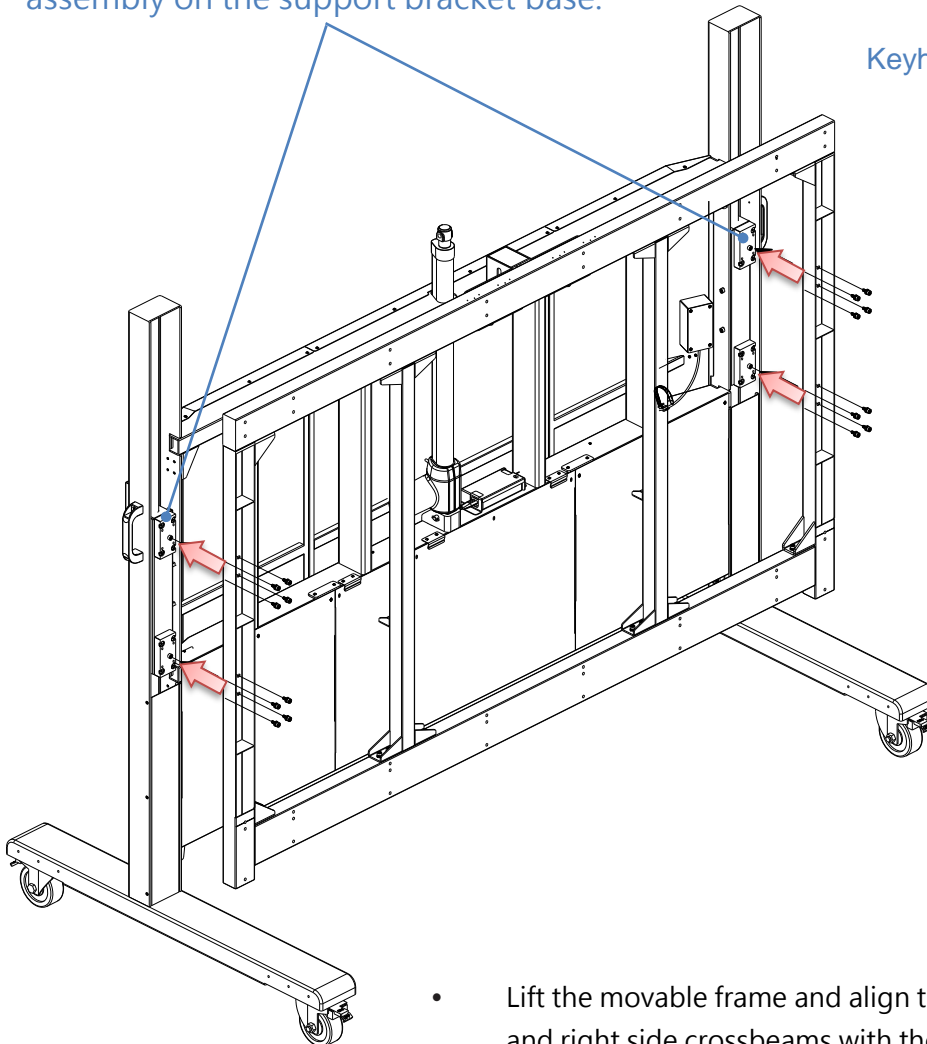
Arrange two installation workers to jointly secure the movable frame to the slide rails on the base of the support bracket.

- The red arrow symbols in the illustration indicate the mounting/hanging screw heads.

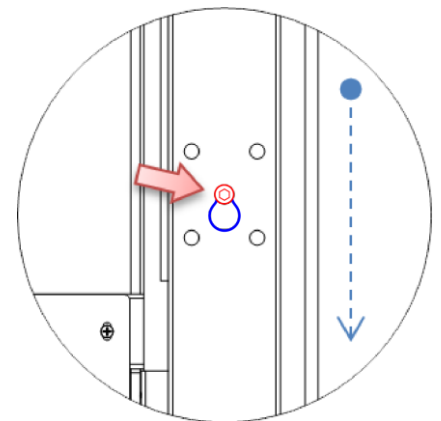
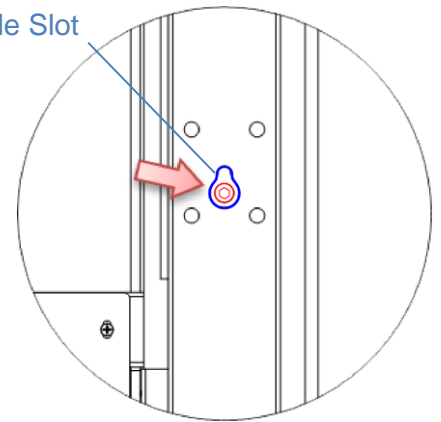


HSM6×15 screw * 16 PCS

The bearing/abutment surface of the slide rail assembly on the support bracket base.



Keyhole Slot



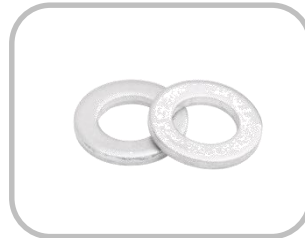
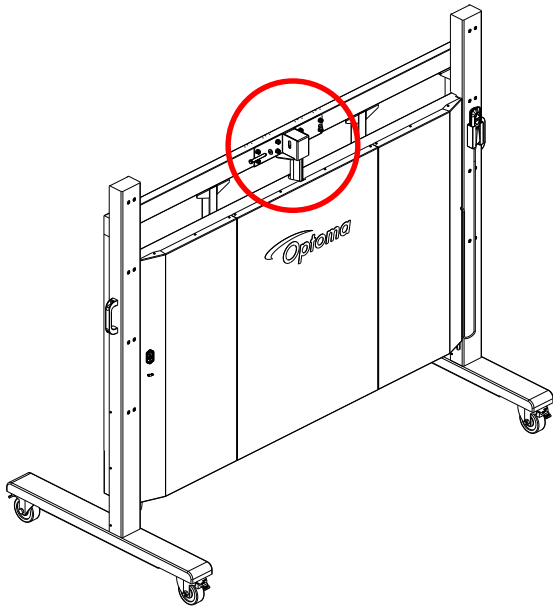
- Lift the movable frame and align the four keyhole slots on the left and right side crossbeams with the four protruding mounting/hanging screw heads on the slide rails of the support bracket base. Pass the slots over the screw heads, then gently lower the frame so that the two components engage. Next, following the instructions in the illustration, install sixteen (16) HSM6×15 screws to securely fasten the two parts together as one unit.

<Front 45-degree view>

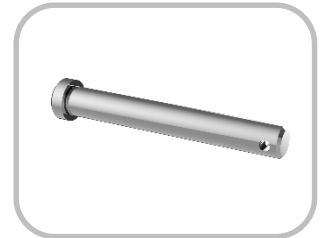
INSTALLATION GUIDE

Installation of the connecting pin with the push rod

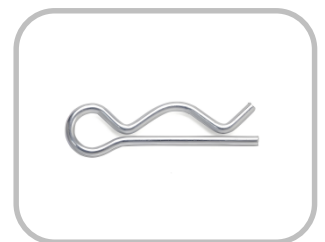
This is an operation guide for assembling the movable frame with the stand base' s electric lifting column.



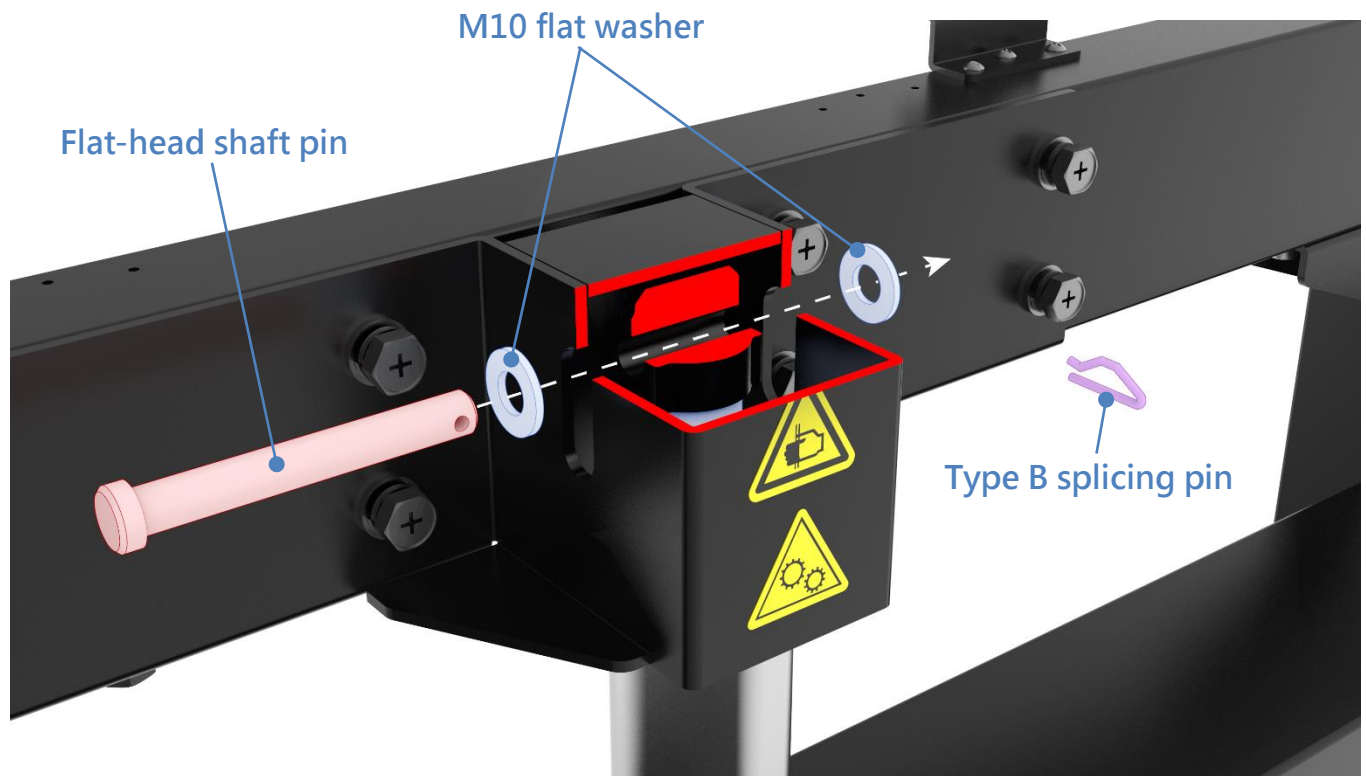
M10 flat washer * 2 PCS



Flat-head shaft pin * 1 PCS



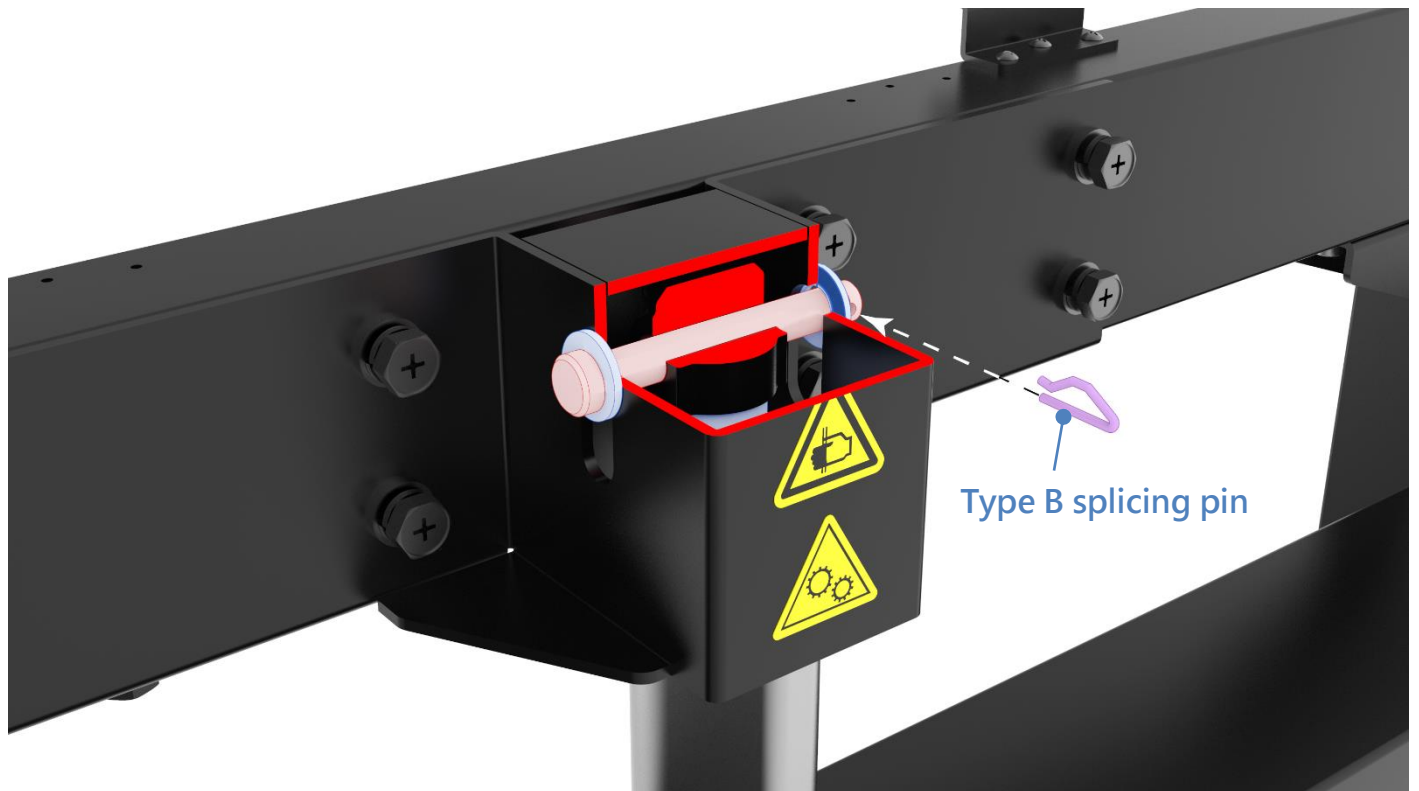
Type B split pin * 1 PCS



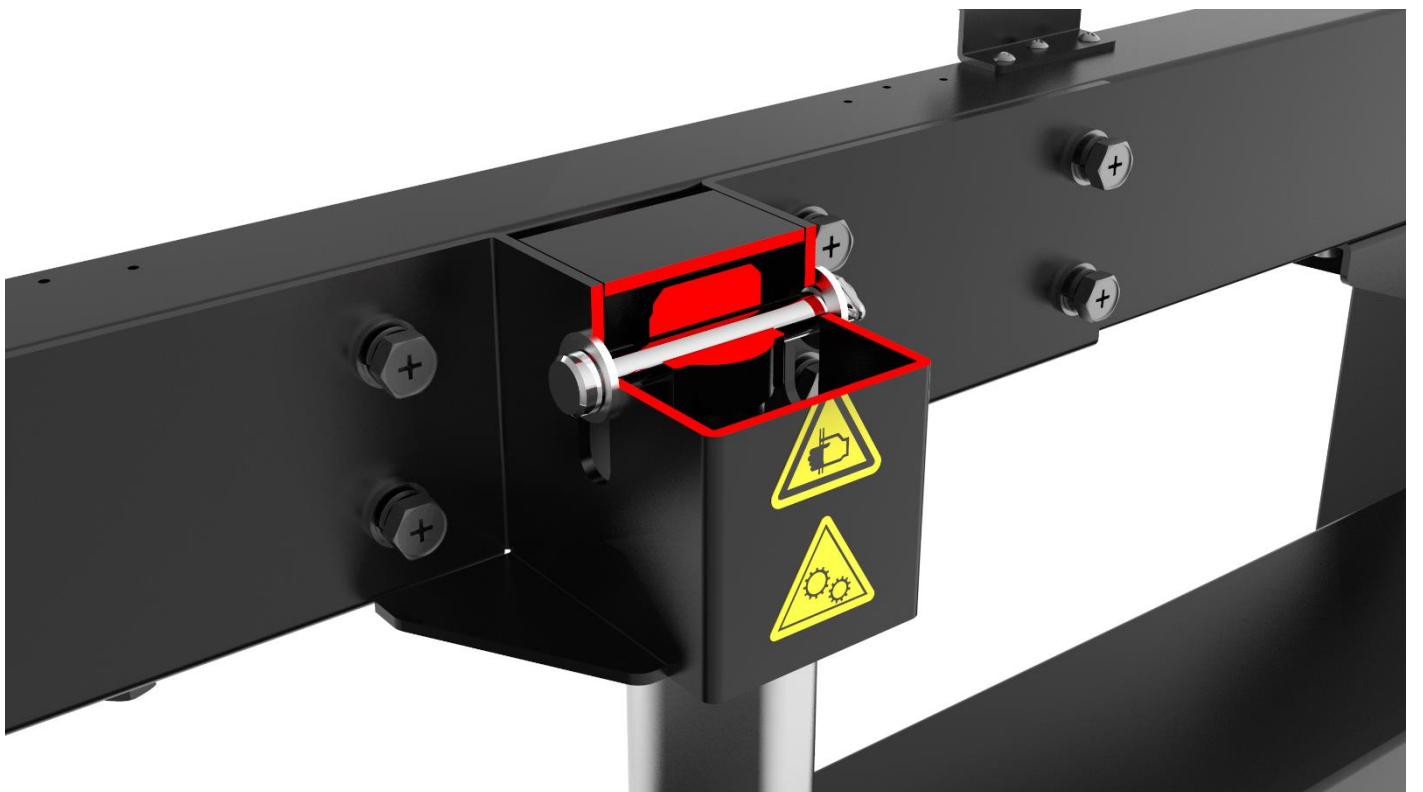
- This is a detailed sectional view showing the use of a flat-head shaft pin and washer to assemble the movable frame with the electric lifting column.

<Rear 45-degree view>

INSTALLATION GUIDE



After inserting the flat-head shaft pin through the mounting holes of the movable frame and the electric lifting column, be sure to insert the **Type B split pin** into the pin hole of the flat-head shaft pin to ensure it is securely fastened and will not loosen.



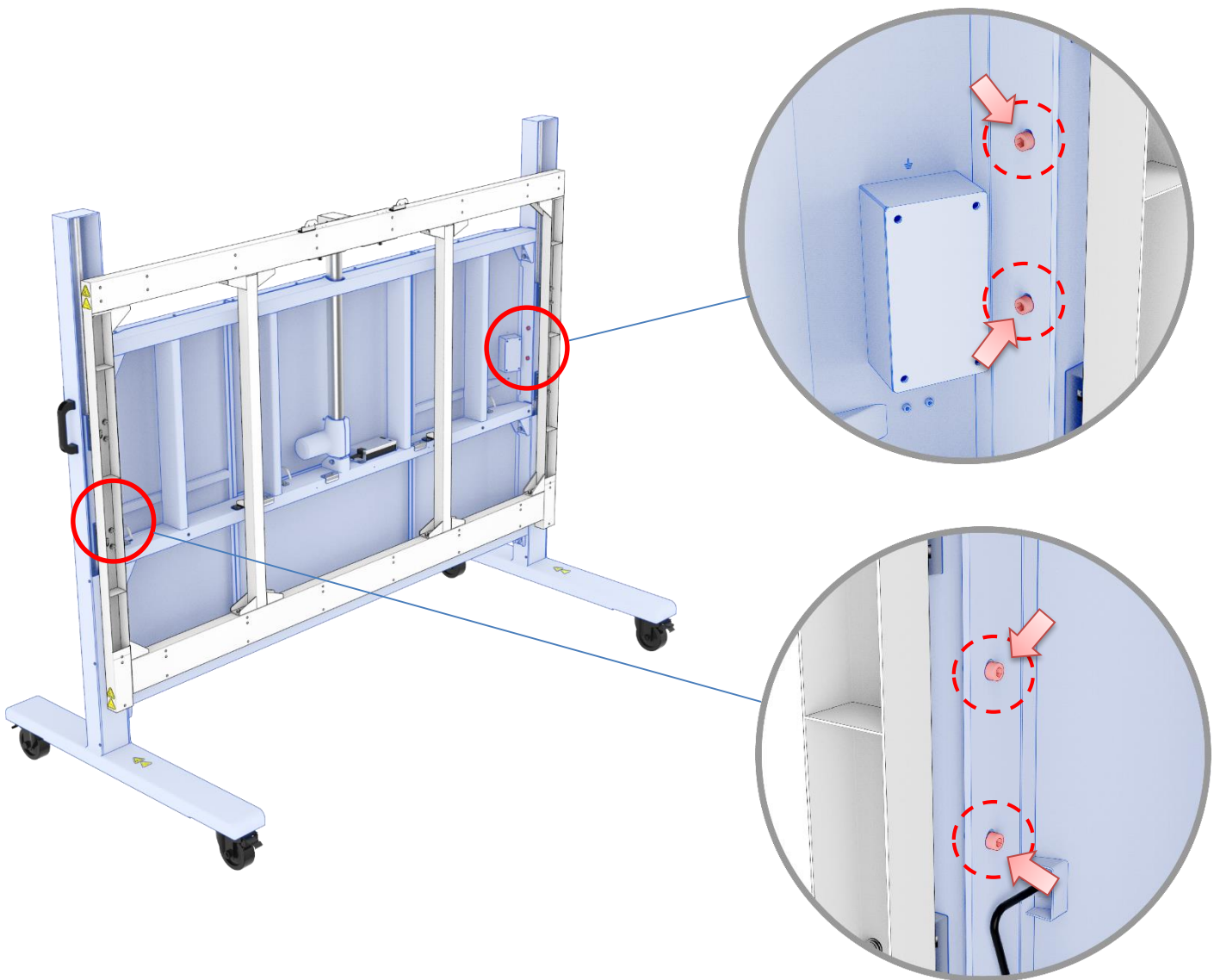
- This is a sectional view of the connection between the movable frame and the electric lifting column after assembly is completed.


<Rear 45-degree view>

INSTALLATION GUIDE

Remove the fixing screws of the lifting guide rail

- To facilitate user assembly of the movable frame, the electric lifting guide rail of the MLST01 stand is secured with four HSM6×15 mm screws to prevent sliding. After completing the assembly of the movable frame, **these four screws must be removed; otherwise, irreversible structural damage to the electric lifting stand may occur.**
- This step illustrates the locations of the guide rail fixing screws that must be removed.



 Remove the protective screws, 2 PCS on each side.

 Do not power on and lift without removing the screws, otherwise it may cause damage!

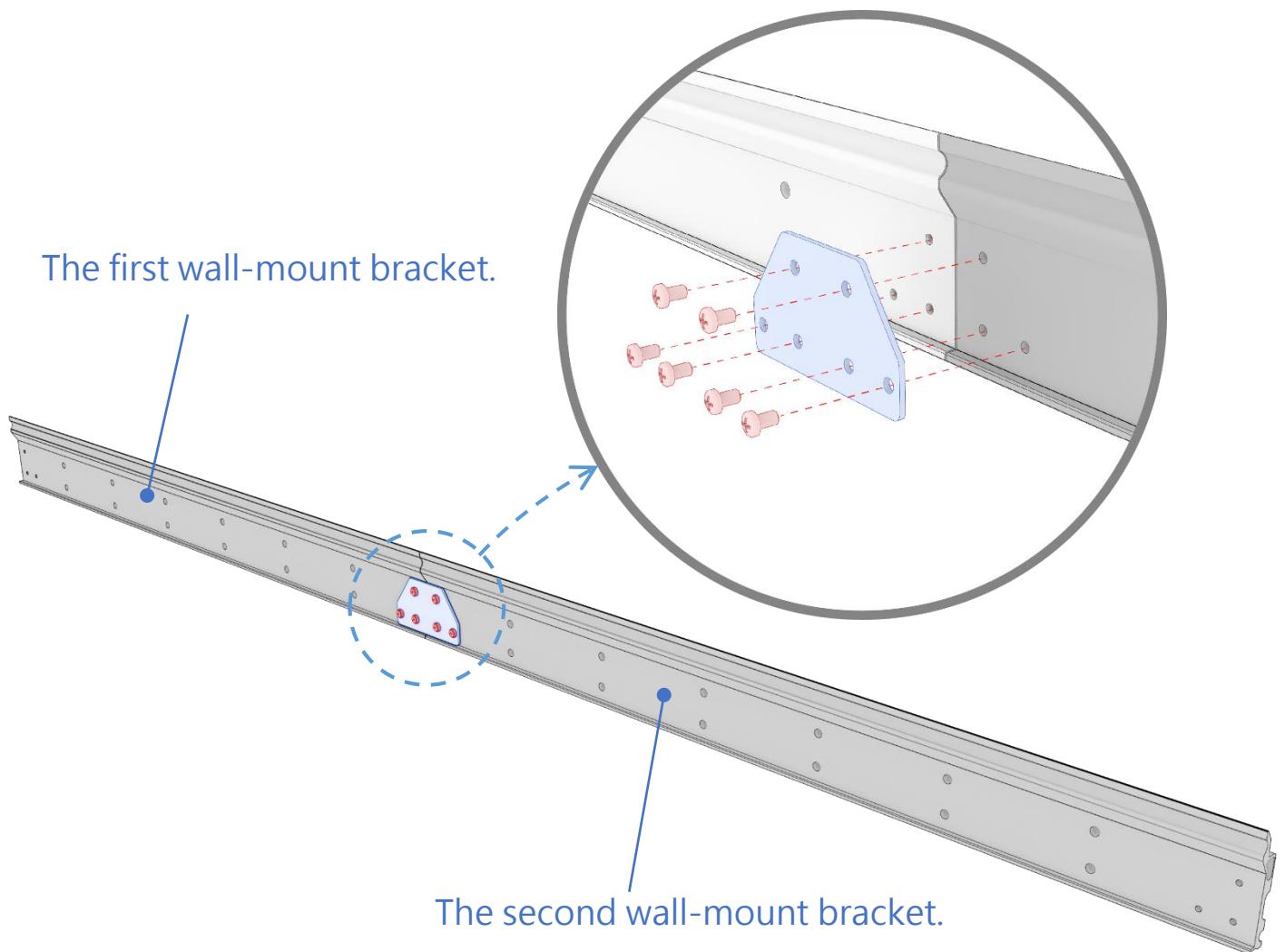
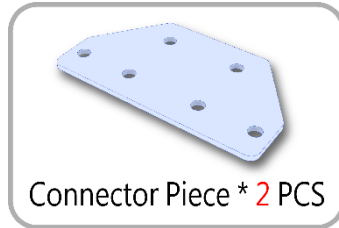
<Front 45-degree view>

INSTALLATION GUIDE

Installation of wall-mounted board hanging strips

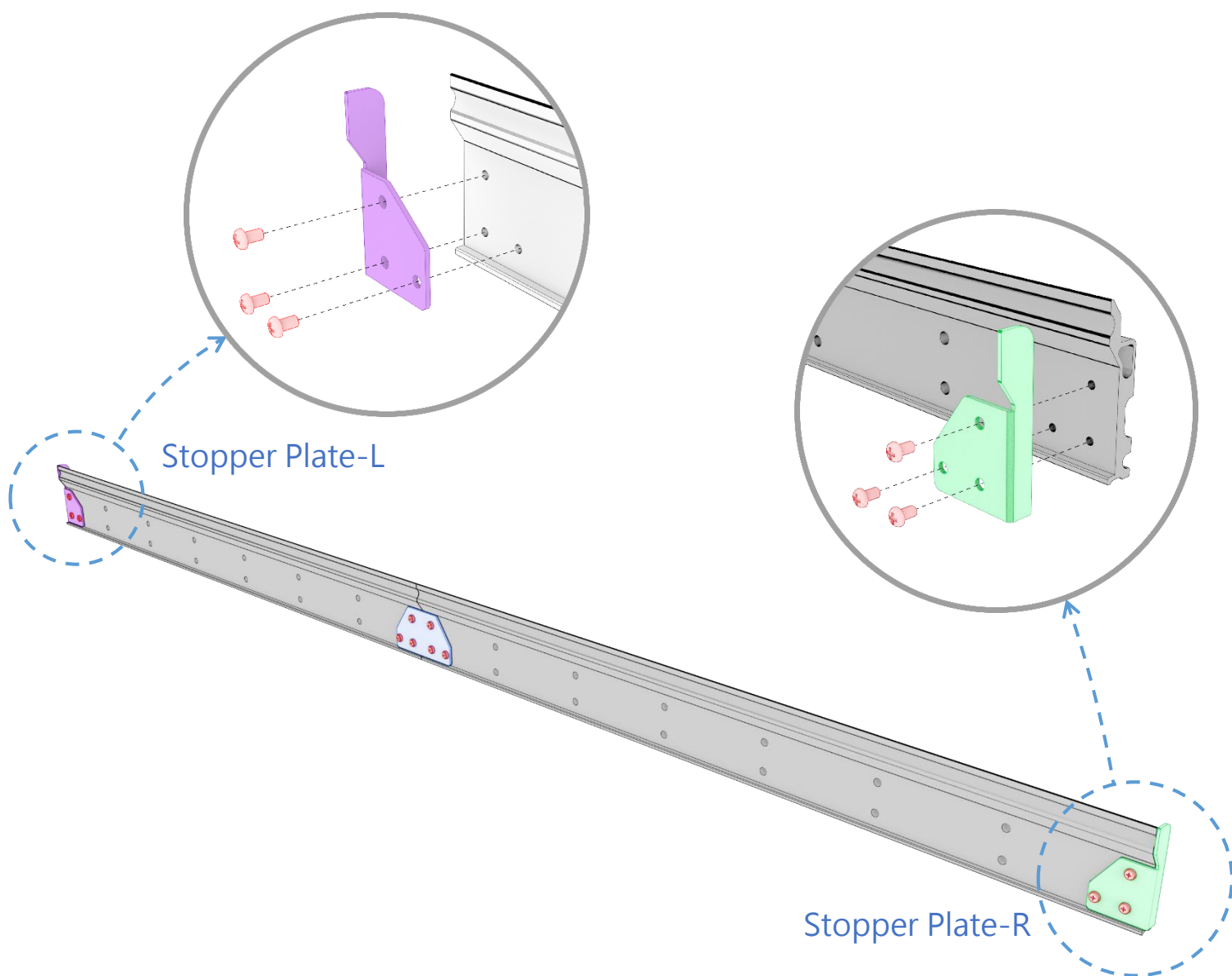
(Note: Materials are supplied with the complete machine)

Step 1: Install the board hanging strip (Note: Install two strips)



INSTALLATION GUIDE

Step 2: Install the left and right baffles of the board hanging strip (Note: only install one set)



INSTALLATION GUIDE

Installation of FHDC108 LED Display

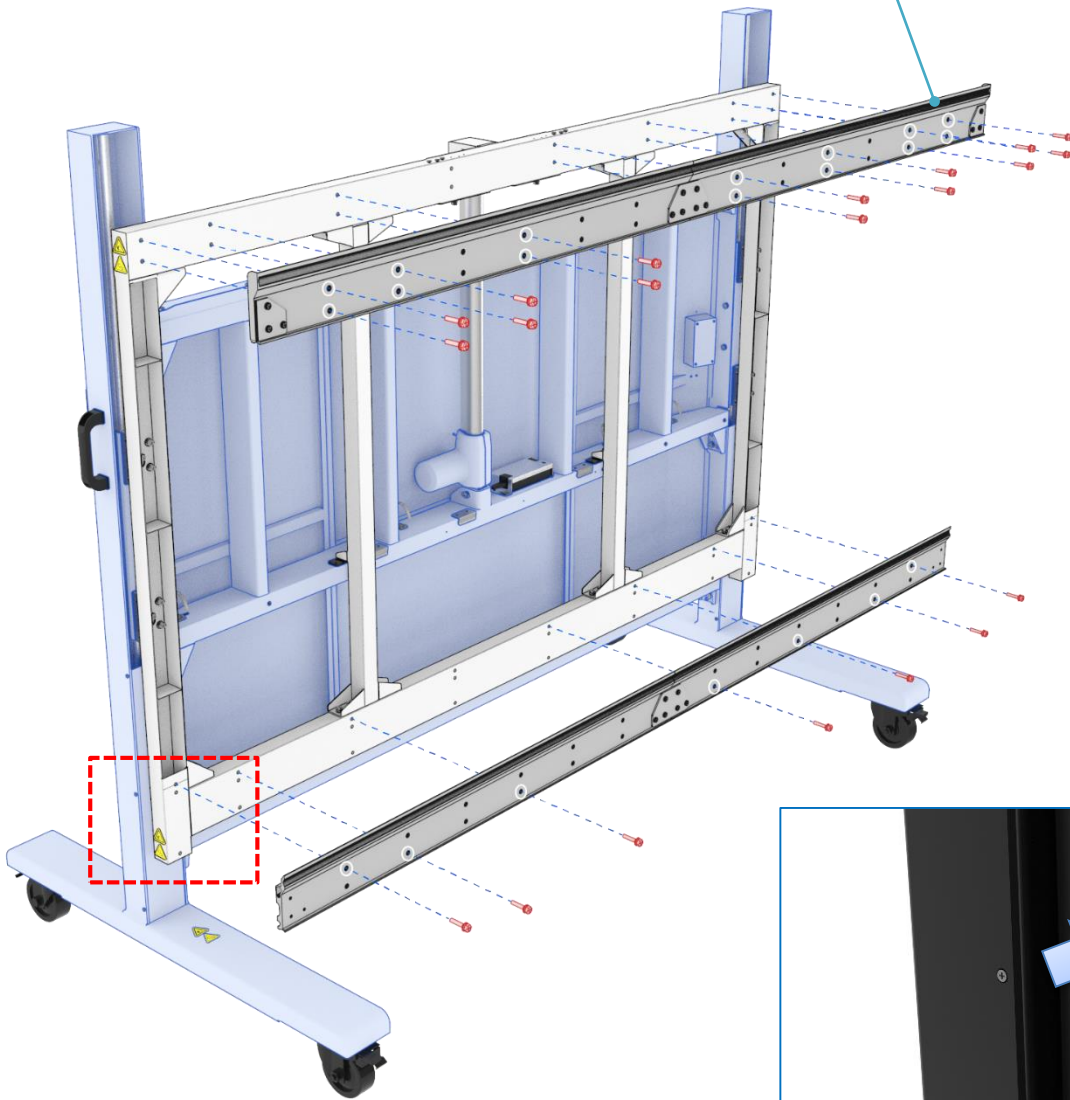
Step 1: Please follow the screw hole positions shown in the illustration and use 21 M8×35 screws to assemble the FHDC108 wall-mount bracket onto the movable frame.



The Wall-mount bracket with stopper plate installed



M8×35 screw * 21 PCS

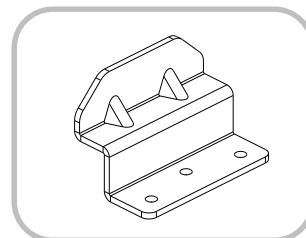
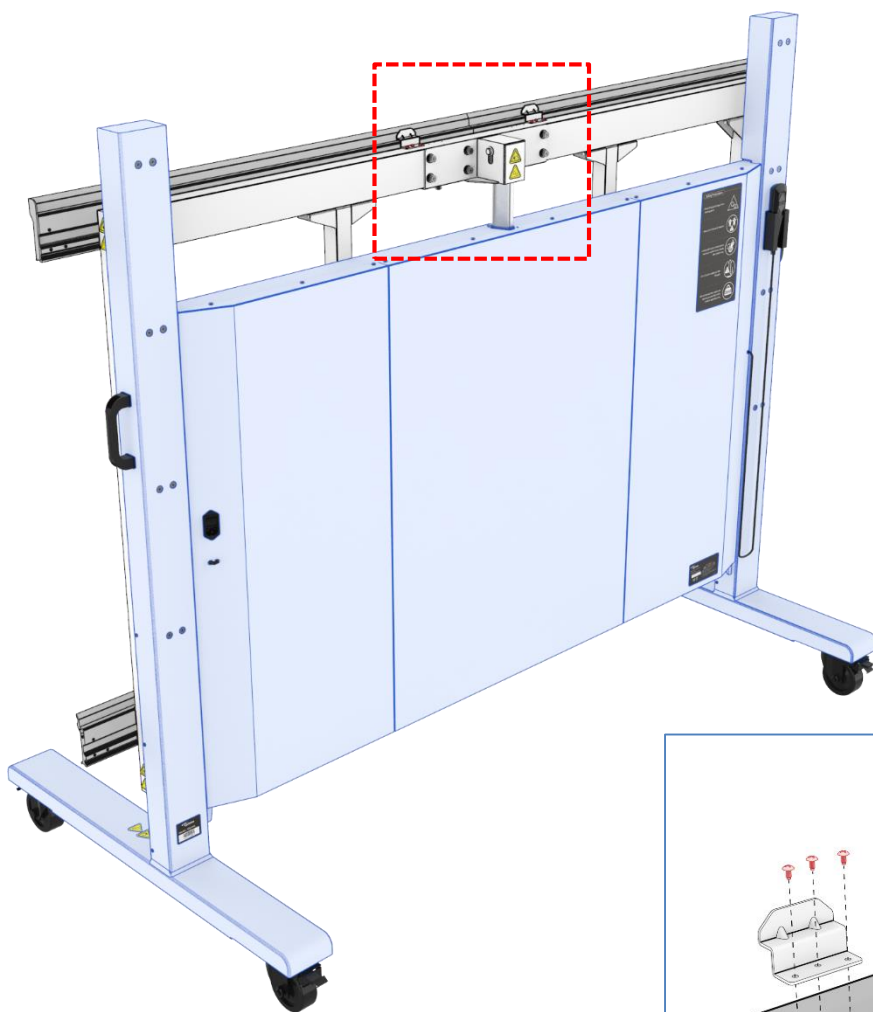


- The movable frame has an alignment marking at the location indicated by the arrow, which is used to align with the upper edge of the wall-mount bracket.

<Front 45-degree view>

INSTALLATION GUIDE

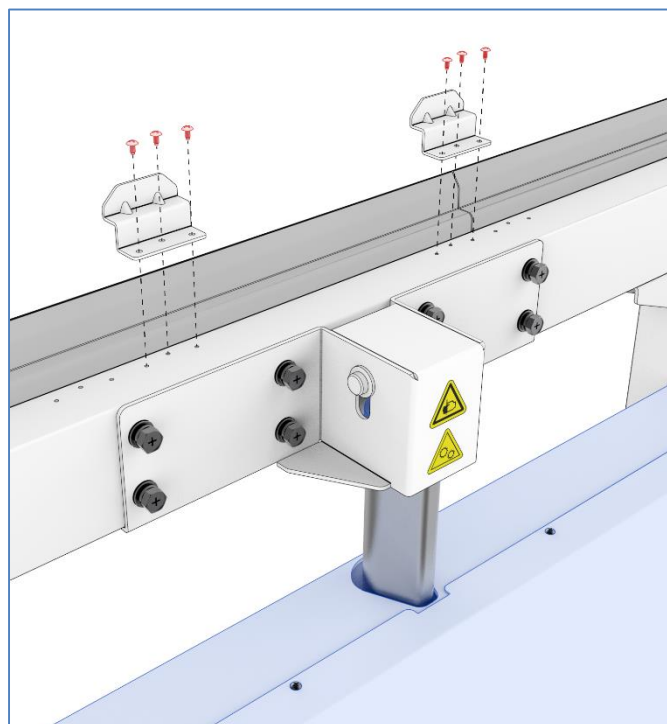
Step 2: Next, from the rear side of the stand, use 6 TM3×6 screws to secure the anti-slip bracket to the screw holes indicated in the illustration.



Anti-slip bracket * 2



TM3×6 screw * 6 PCS

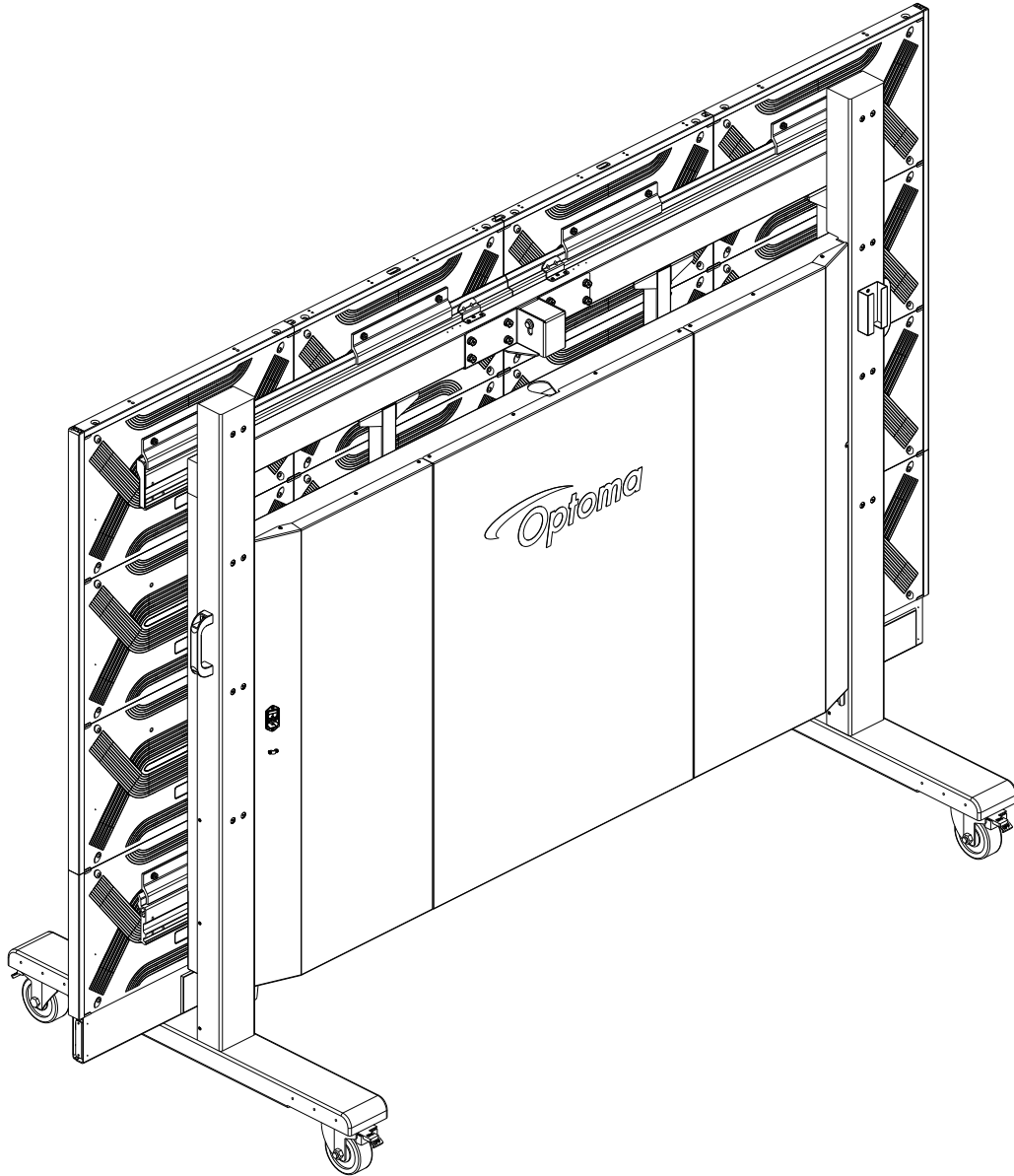


Pay attention to the position of the mounting hole.

<Rear 45-degree view>

INSTALLATION GUIDE

Step 3 : Mount the hook plate on the rear side of the FHDC108 LED display onto the wall mount to complete the installation.



<Rear 45-degree view>

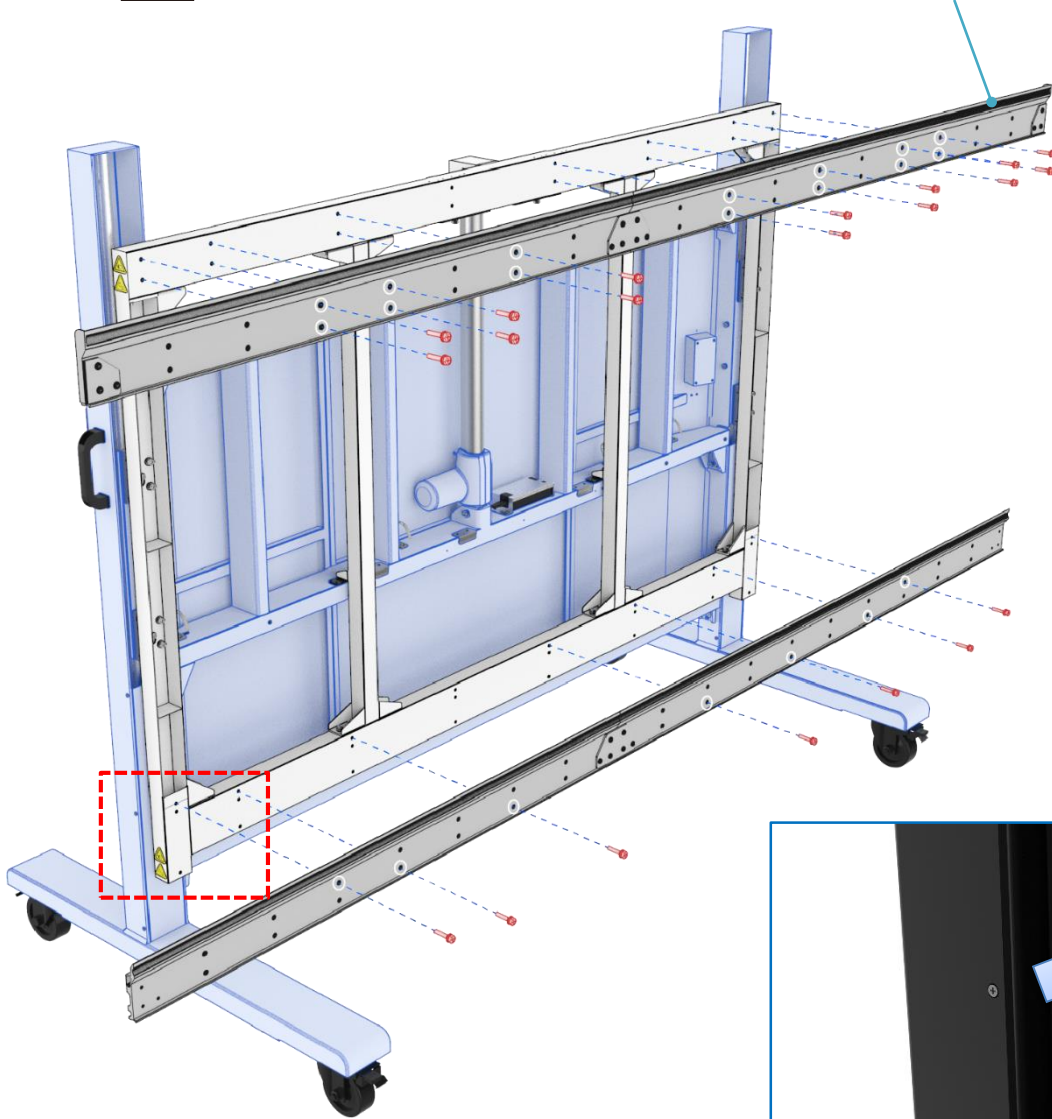
INSTALLATION GUIDE

Installation of FHDC135 LED Display

Step 1 : Please follow the screw hole positions shown in the illustration and use 21 M8×35 screws to assemble the FHDC135 wall-mount bracket onto the movable frame.



The Wall-mount bracket with stopper plate installed



M8×35 screw * 21 PCS

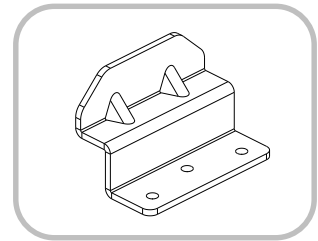
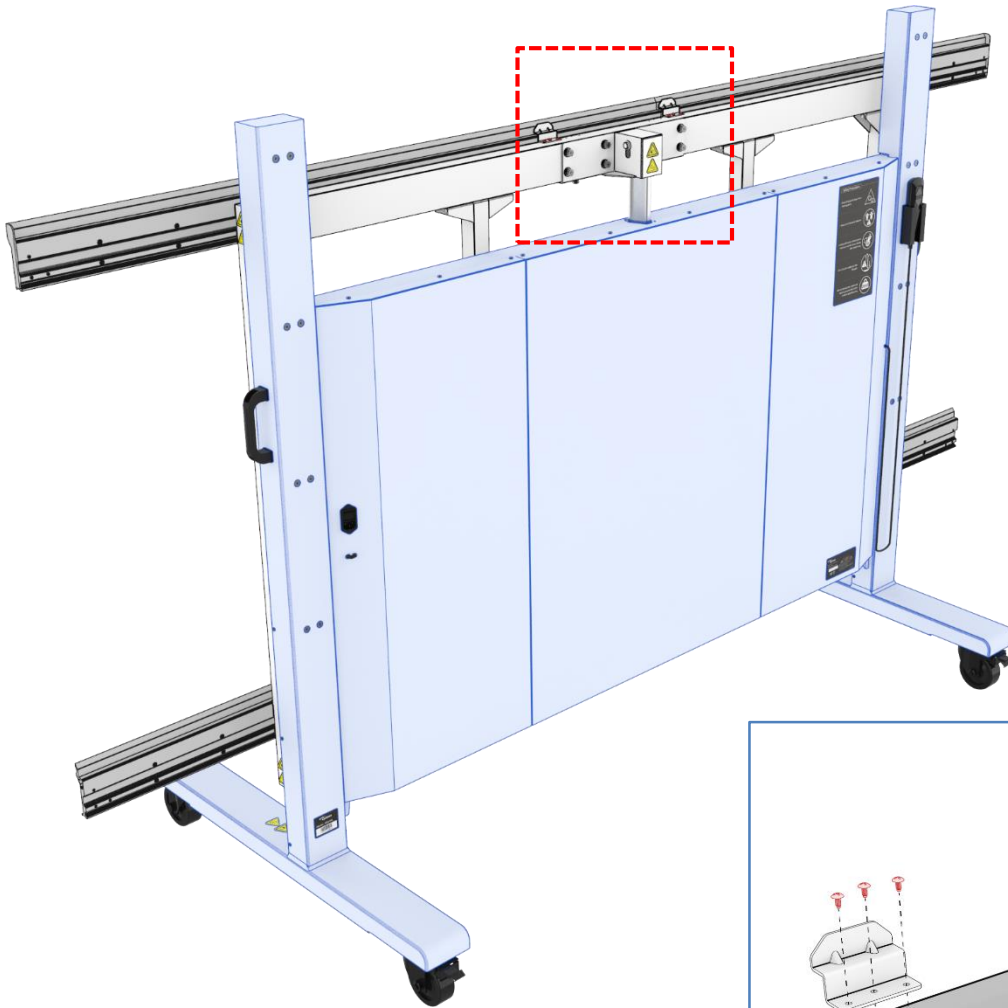


- The movable frame has an alignment marking at the location indicated by the arrow, which is used to align with the upper edge of the wall-mount bracket.

<Front 45-degree view>

INSTALLATION GUIDE

Step 2 : Next, from the rear side of the stand, use 6 TM3×6 screws to secure the anti-slip bracket to the screw holes indicated in the illustration.



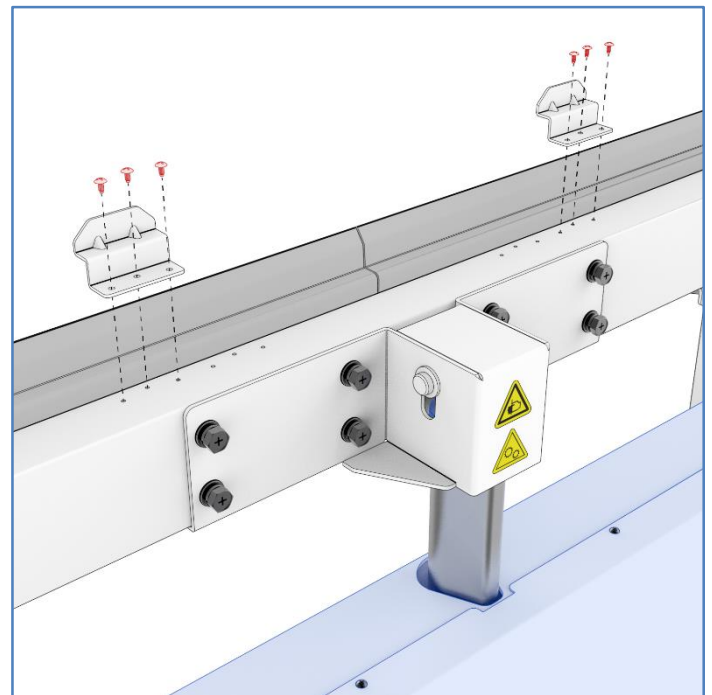
Anti-slip bracket * 2



TM3×6 screw * 6 PCS



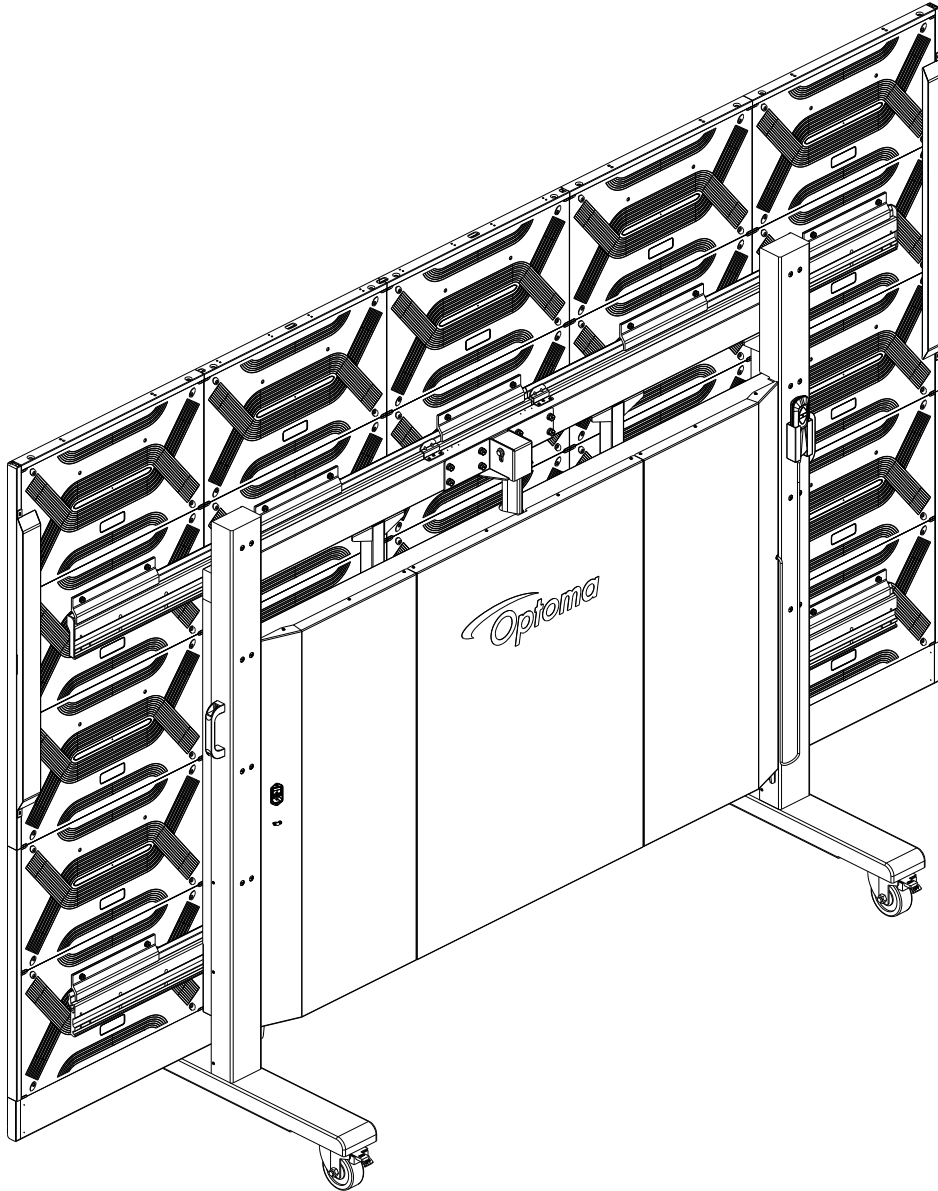
Pay attention to the position of the mounting hole.



<Rear 45-degree view>

INSTALLATION GUIDE

Step 3 : Mount the hook plate on the rear side of the FHDC135 LED display onto the wall mount to complete the installation.



<Rear 45-degree view>

INSTALLATION GUIDE

Installation of FHDC163 LED Display

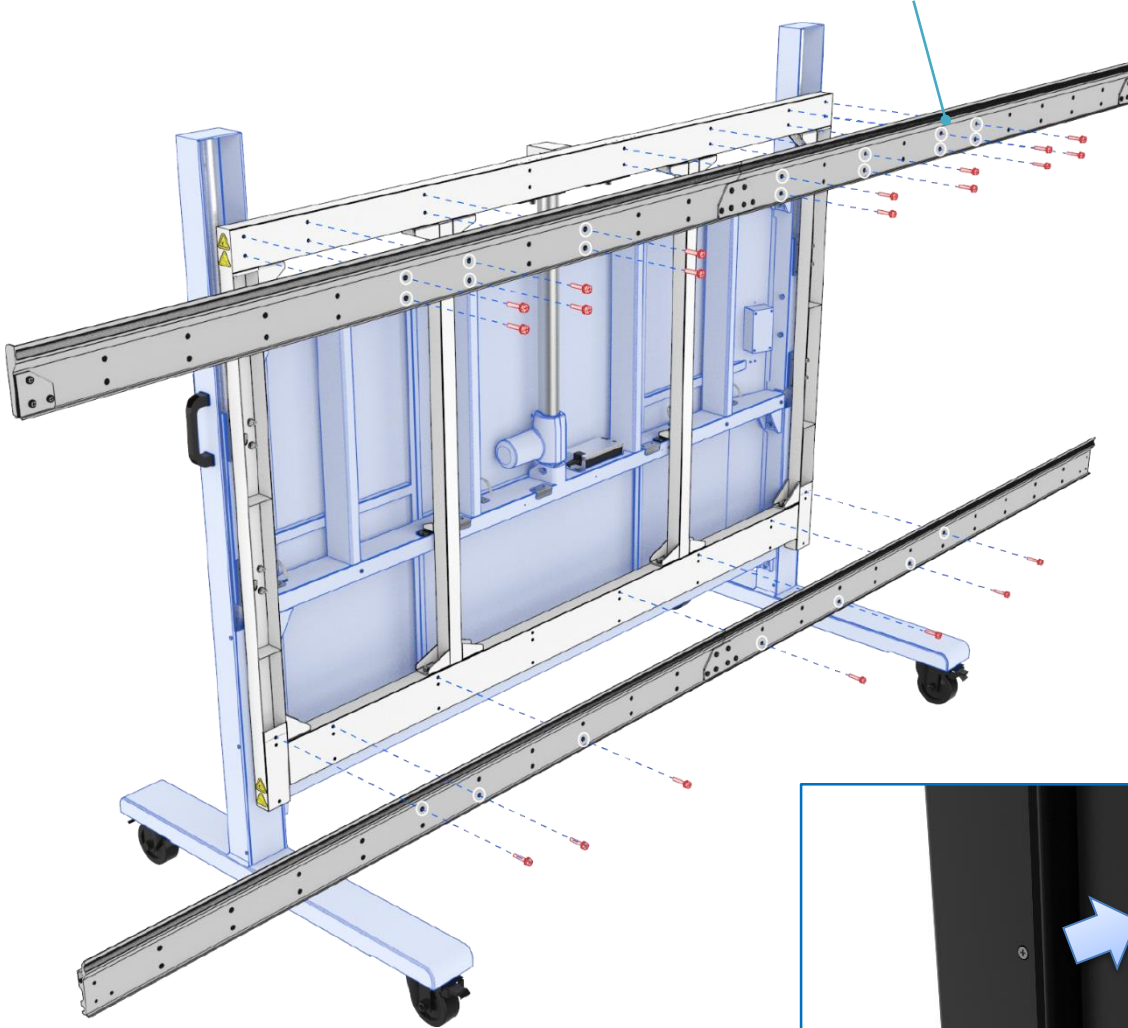
Step 1 : Please follow the screw hole positions shown in the illustration and use 21 M8×35 screws to assemble the FHDC163 wall-mount bracket onto the movable frame.



The Wall-mount bracket with stopper plate installed



M8×35 screw * 21 PCS

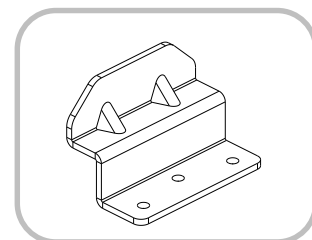
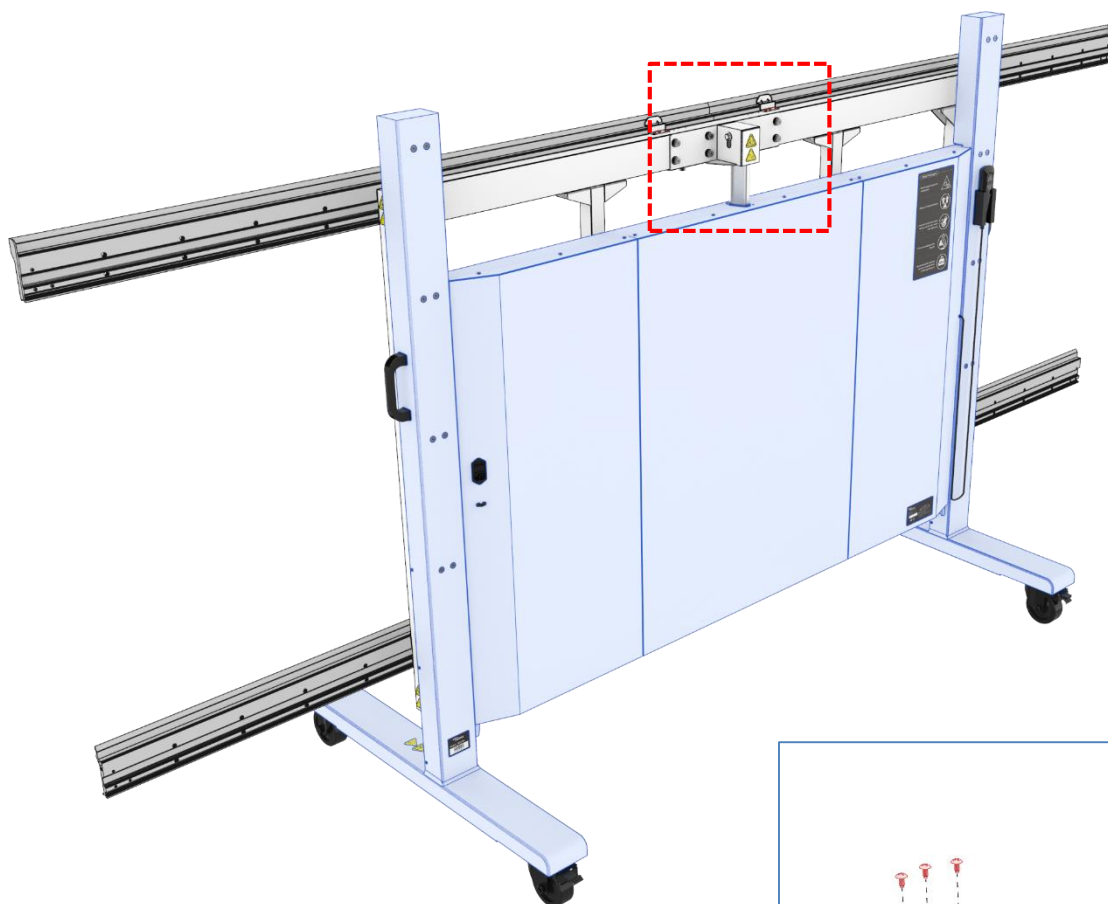


- The movable frame has an alignment marking at the location indicated by the arrow, which is used to align with the upper edge of the wall-mount bracket.

<Front 45-degree view>

INSTALLATION GUIDE

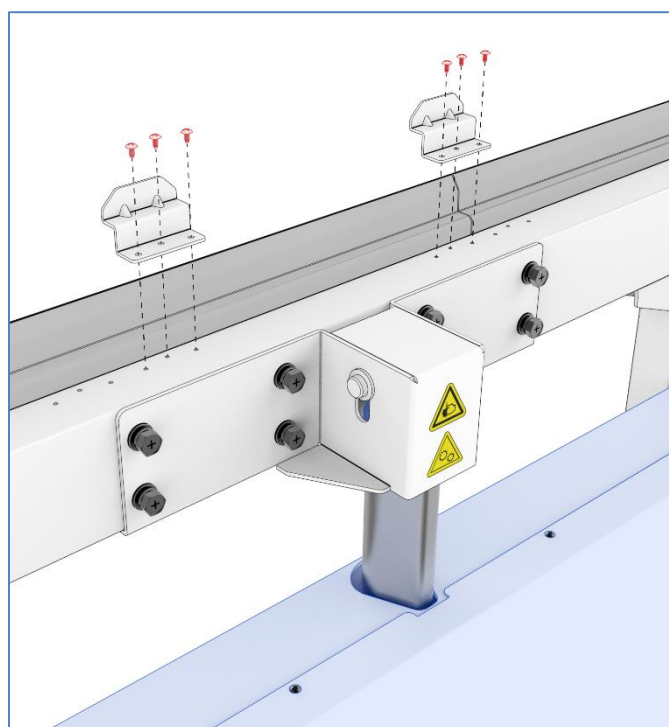
Step 2 : Next, from the rear side of the stand, use 6 TM3×6 screws to secure the anti-slip bracket to the screw holes indicated in the illustration.



Anti-slip bracket * 2



TM3×6 screw * 6 PCS

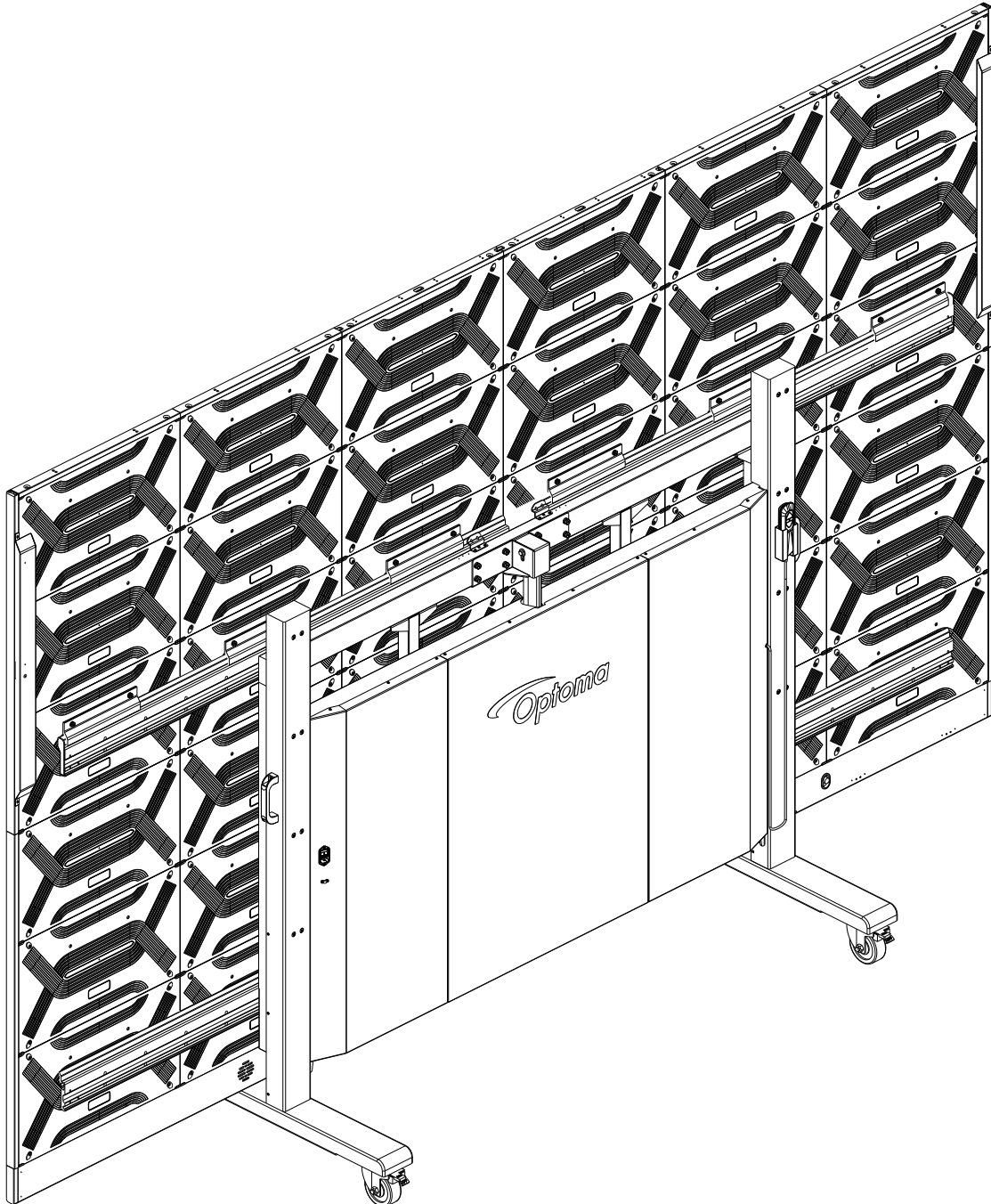


Pay attention to the position of the mounting hole.

<Rear 45-degree view>

INSTALLATION GUIDE

Step 3 : Mount the hook plate on the rear side of the **FHDC163 LED display** onto the wall mount to complete the installation.



<Rear 45-degree view>




ADDITIONAL INFORMATION

OPTOMA Global Offices

For service or support, please contact your local office.



USA

Optoma Technology, Inc.
47697 Westinghouse Drive.
Fremont, Ca 94539

 888-289-6786
 510-996-4794
 services@optoma.com




Canada

Optoma Technology, Inc.
47697 Westinghouse Drive.
Fremont, Ca 94539

 888-289-6786
 510-996-4794
 services@optoma.com




Latin America

Optoma Technology, Inc.
47697 Westinghouse Drive.
Fremont, Ca 94539

 888-289-6786
 510-996-4794
 services@optoma.com



Europe

1 Bourne End Mills
Hemel Hempstead
Hertfordshire
HP1 2UJ
United Kingdom
www.optoma.eu
Service Tel : +44 (0)1923 691865

 +44 (0) 1923 691 800
 +44 (0) 1923 691 888
 service@tsc-europe.com




Benelux BV

Optoma Benelux BV
Europalaan 770 D
1363BM Almere
The Netherlands
www.optoma.nl

 +31 (0) 36 8200 250
 +31 (0) 36 548 9052



France

Bâtiment E
81-83 avenue Edouard Vaillant
92100 Boulogne Billancourt, France

 +33 1 41 46 12 20
 +33 1 41 46 94 35
 savoptoma@optoma.fr




Spain

C/ José Hierro, 36 Of. 1C 28529 Rivas
Vaciamadrid, Spain

 +34 91 499 06 06
 +34 91 670 08 32




Deutschland

Optoma Deutschland GmbH
Madriker Straße 10
41069 Mönchengladbach
Deutschland

 +49 (0) 2161 68643 0
 +49 (0) 2161 68643 99
 info@optoma.de

Scandinavia

Hägernähuset
Sjöflygvägen 35
183 62 Täby
Sweden

 +47 32 98 89 90
 +47 32 98 89 99
 info@optoma.no

Korea

<https://www.optoma.com/kr/>

Japan



<https://jp.optoma.com/>

Taiwan

<https://www.optoma.com/tw/>

China

Room 2001, 20F, Building 4,
No.1398 Kaixuan Road,
Changning District
Shanghai, 200052, China

 +86-21-62947376
 +86-21-62947375
www.optoma.com.cn

Australia

<https://www.optoma.com/au/>

