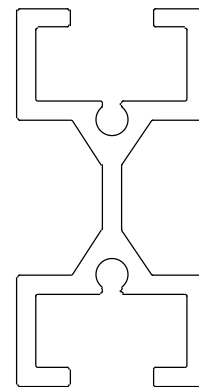


ORIENTTRACK

MOTOR OPERATION
SINGLE & DOUBLE TRACK WITH CENTRAL OVERLAP



DISCLAIMER & COPYRIGHT

No part of this publication may be duplicated or edited in any form or by any means, including any type of electronic or mechanical method without prior written permission from ShowTex.



ShowTex NV and its employees are fully aware of their task to provide a reliable edition of this document. Nevertheless, they can accept no liability for (the direct or indirect consequences of) imperfections that might remain in this edition. The material in this manual is subject to change without notice.

All products from the ShowTex Rental range are supposed to be returned in the same state as they were rented. Please treat our products with care, allowing the next user to enjoy the products as much as you did. The rented products are internally checked according to the general rental conditions. Be sure to check our rental guidelines on our website before installing and using this product:

<http://www.showtexrental.com/showtex-rental-guidelines>.



Read and understand this user manual before installing and or operating the automatic reveal system. Failure to follow the instructions in this document could result in serious injury!



As a result of the above warning, any ShowTex product must be installed and operated by a qualified technician who has knowledge of its capabilities as well as its limitations.

Following the guidelines of this manual will reduce the risk of damaging the equipment or injuring yourself and the people around you. Damage to the system caused by any other method of installation than the one shown in this manual can only be repaired or fixed at the customer's expense.

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INTRO

Thank you for purchasing a ShowTex product.

Please take a moment to read this manual before installing or starting to use your new curtain track system. It contains important information regarding health and safety regulations and will guide you through the installation process safely and will show you how to use the system without injuring yourself or the people around you.

WARRANTY

ShowTex warrants its mechanical/technical products, when delivered in new condition, in original packaging, sold directly and used in normal conditions, are free from any defects in manufacturing, materials and workmanship. The warranty shall only apply if the mandatory preventive maintenance actions as described in the technical documentation have been executed by skilled people. Warranty starts on invoice date for a period of 24 months.

Please read the entire warranty declaration on our website www.showtex.com before installing & using this product.

PRODUCT DESCRIPTION



The Orient Track is a black anodised aluminium track based on the geometry of the ShowTrack. It is designed to meet various requirements such as: small bendable radius, both outside runners or inside gliders, manual and motor operated for straight and curved tracks.

Tracks are available in straight lengths, standard curves or curves with custom radii. The tracks can be mounted directly to the ceiling or via a channel nut suspended on a threaded rod or a clamp.

SAFETY INSTRUCTIONS



Do not exceed the maximum carrying capacity of the track and its components. Be sure to check if the capacity of the suspension points corresponds to the weight of the track and the items to be suspended from the track. **(see chapters *Technical Specifications and Max. Load & Distance*)**

Do not exceed the maximum distance between each suspension point. Provide extra points in the curtain storage area to support the accumulated weight of the curtain when gathered together. Be sure to refer to the technical datasheet for more detailed information. **(see chapter *Max. Load & Distance*)**

Do not allow any item to be operated or used when in doubt about the safety or good working order to avoid accidents and injuries. Most accidents are the result of lack of training, carelessness and overconfidence, do not assume anything.

Do not use this rail system for any other purpose than hanging and moving stage curtains or light-weight decorative elements. Only combine this rail system with parts and accessories from the ShowTex curtain track range.

Disassembly must be carried out under the same conditions and following the same steps as assembly but in reverse order. Remove all curtains or other suspended items before removing tracks from their permanent location. Disconnect all parts before removing tracks. Never remove in one piece.



To prevent electrocution and contact with moving parts, disable the power supply before carrying out any work on the units.

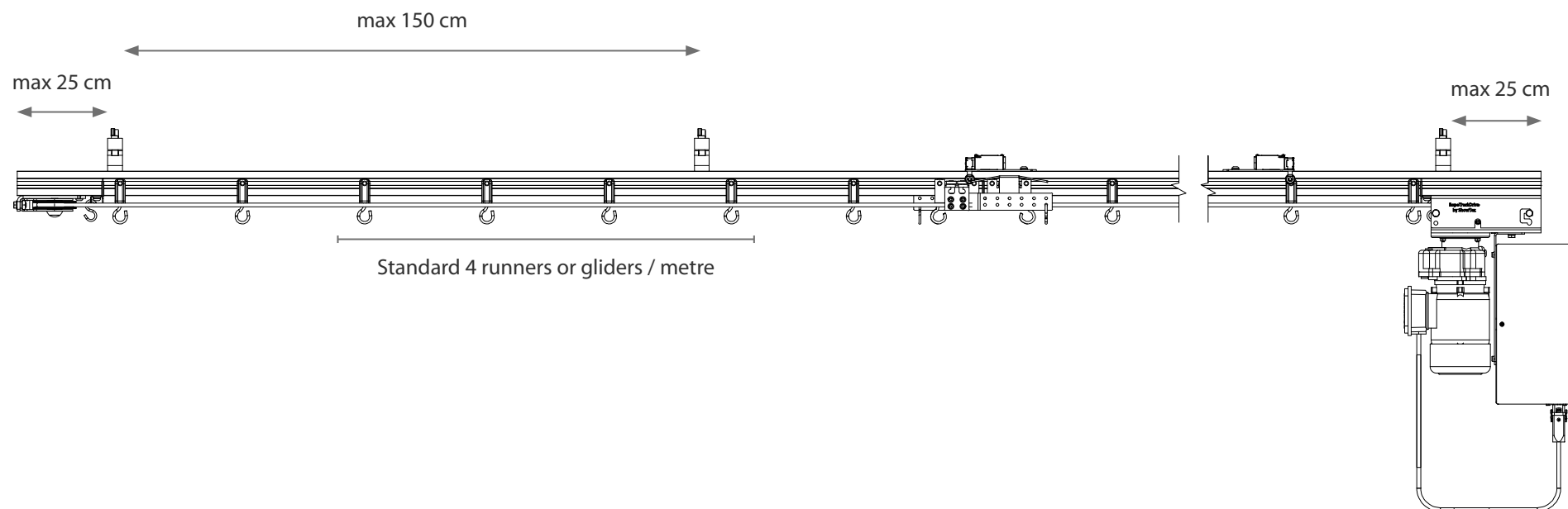
RTD units must be installed with a corresponding earth wire of the same section as the power cable. Installation and operation must take place in a dry frost-free environment.

A sudden unexpected start-up of the system by not disabling the power in both the standard and RTD units causes a risk to the operator.

Be aware that the motion system keeps moving as long as the power is on. If a problem occurs, anything in its path can cause damage to the moving curtain until the master or overlap carriers reach the limit switch or the motor unit is shut down.

MAX LOAD & DISTANCE

Never exceed the maximum distance and approved loads shown in the drawing and graph on this page.



*Provide extra suspension points in the curtain storage area to support the accumulated weight of the curtain when gathered!
Load capacities have been calculated using safety factor 2. Apply the required Safety factor according to the standards of your application.
Refer to the technical datasheet for more information. (downloadable from the [showtex website](#))*

Art. No	Description	SWL	Point load between 1.5 m suspension points	Uniformly distributed load between 1.5 m suspension points
8067 0001 6007	Track	x	41 kg	44 kg/m
8055 0195 0007	Glider	6 kg	x	x
8067 0205 0007	Ball raced runner	8 kg	x	x
8067 0220 0007	Master glider	15 kg	x	x
8067 0221 0007	Master carrier	25 kg	x	x

TECHNICAL SPECIFICATIONS

COMPONENTS

The following components are parts of the rail system.

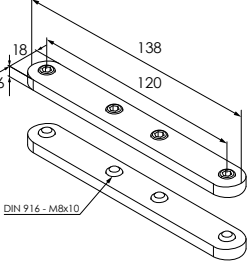
CAUTION! The components included in your shipment depend on the specific situation in which you want to use this system.

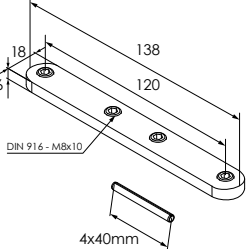
For more technical information, please refer to the technical datasheet.

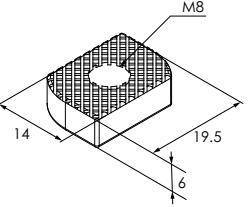
LEGEND

/m	Weight per metre
/p	Weight per piece
/s	Weight per set

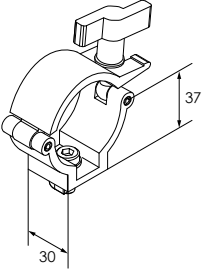
	OrientTrack	
	Article code	Colour
	8067 0001 6007	Black
	Info	Weight
	Aluminium T6	0.98 kg/m

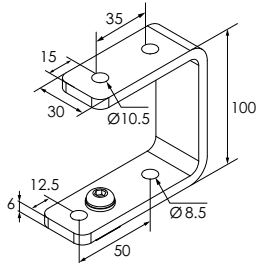
	Joiner Set for Runners	
	Article code	Colour
	8067 0040 0007	Black
	Info	Weight
	Set of 2 pieces Steel	0.20 kg/set

	Joiner Set for Gliders	
	Article code	Colour
	8067 0040 0017	Black
	Info	Weight
	Set of 2 pieces Steel	0.12 kg/set

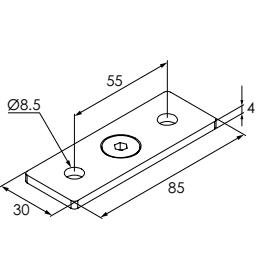
	Channel Nut M8 for OrientTrack	
	Article code	Colour
	8067 9224 0001	Galvanised
	Info	Weight
	Steel	0.01 kg/piece

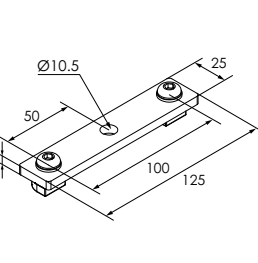
	Construction Channel Nut M10	
	Article code	Colour
	8700 9224 0101	Galvanised
	Info	Weight
	Steel	0.03 kg/piece

	75 kg Clamp with Channel Nut	
	Article code	Colour
	8067 0680 0007	Black
	Info	Weight
	For 50 mm tube - Aluminium - SWL 75 kg	0.20 kg/piece

		
Curved Track Suspension Bracket		
Article code	Colour	
8067 0550 0007	Black	
Info	Weight	
For curved track Steel - SWL 75 kg	0.32 kg/piece	

		
Curved Track Suspension Bracket with 75 kg Clamp		
Article code	Colour	
8067 0550 0017	Black	
Info	Weight	
For curved track SWL 75 kg - Steel	0.50 kg/piece	

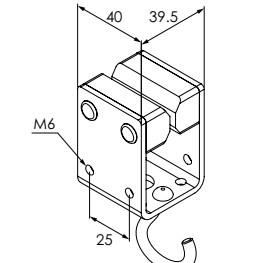
		
Ceiling Bracket		
Article code	Colour	
8067 0110 0007	Black	
Info	Weight	
Steel	0.09 kg/piece	

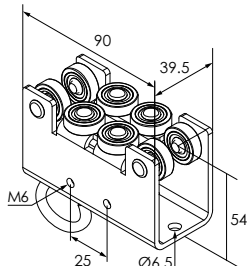
		
Overlap Clip		
Article code	Colour	
8067 0696 0007	Black	
Info	Weight	
For double track setup Steel	0.41 kg/piece	

		
End stop		
Article code	Colour	
8067 0050 0007	Black	
Info	Weight	
With 1 S-hook	0.06 kg/piece	

		
Glider		
Article code	Colour	
8067 0195 0007	Black	
Info	Weight	
Silent - With swivel hook - SWL 6 kg - POM	0.03 kg/piece	

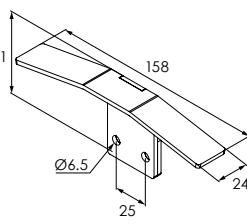
		
Ball-Raced Runner with Swivel Hook		
Article code	Colour	
8067 0205 0007	Black	
Info	Weight	
With swivel hook SWL 8 kg - Nylon	0.06 kg/piece	

		
Master Glider with Swivel Hook		
Article code	Colour	
8067 0220 0007	Black	
Info	Weight	
Silent - With swivel hook - SWL 15 kg - Steel	0.17 kg/piece	

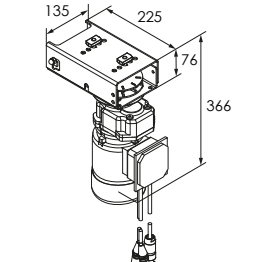
		Master Carrier with Swivel Hook	
Article code	8067 0221 0007	Colour	Black
Info	With swivel hook SWL 25 kg - Steel	Weight	0.41 kg/piece

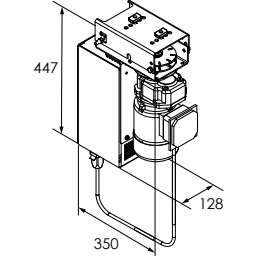
		Overlap Arm Set	
Article code	8067 0240 0007	Colour	Black
Info	Set of 2 pieces With 2 S-hooks - Steel	Weight	0.34 kg/set

		Rope Clamp Plate	
Article code	8067 0249 0007	Colour	Black
Info	For single and double track - Steel	Weight	0.11 kg/set

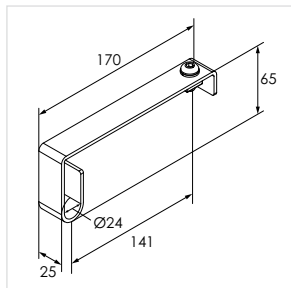
		Ski for Limit Switch	
Article code	8067 0770 0007	Colour	Black
Info	For motor operation Steel	Weight	0.18 kg/piece

		Limit switch set RTD 1100-1500	
Article code	8050 0770 0013	Colour	Black
Info	Set of 2 pieces	Weight	0.86 kg/set

		RTD 1100 - 120W with remote	
Article code	8050 0713 1107	Colour	Black
Info	Fixed speed	Weight	10.0 kg/piece

		RTD 1500 - 120W with remote	
Article code	8050 0713 1507	Colour	Black
Info	Variable speed	Weight	11.8 kg/piece

		Return Pulley	
Article code	8067 0410 0027	Colour	Black
Info	For single, double and curved track - Steel	Weight	1.17 kg/piece



Line Pickup

Article code

8067 0694 0007

Colour

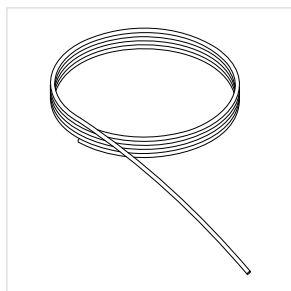
Black

Info

For double track - Steel

Weight

0.20 kg/piece



Double Braided Rope 8 mm

Article code

7530 0308 1007

7530 1308 0027

Colour

Black

Black-Orange-Green

Info

100 m

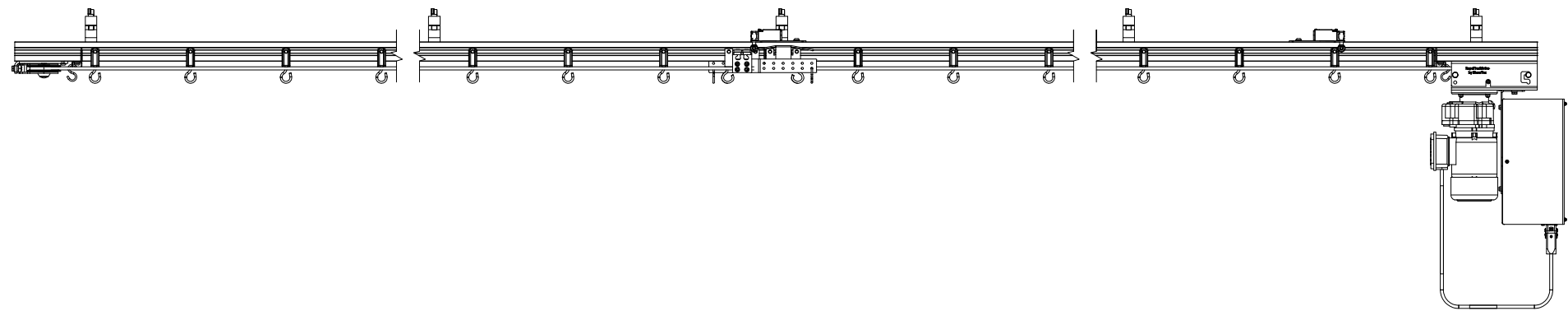
Weight

0.043 kg/m

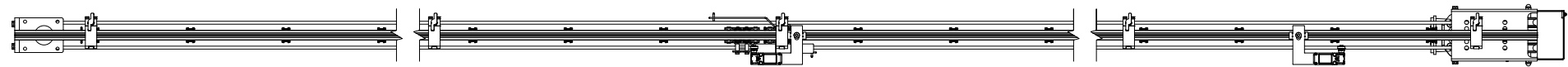
ASSEMBLED SINGLE-TRACK CENTRAL OVERLAP

FRONT, TOP AND BOTTOM PLAN VIEW

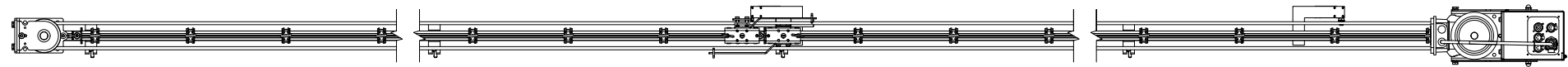
Front view



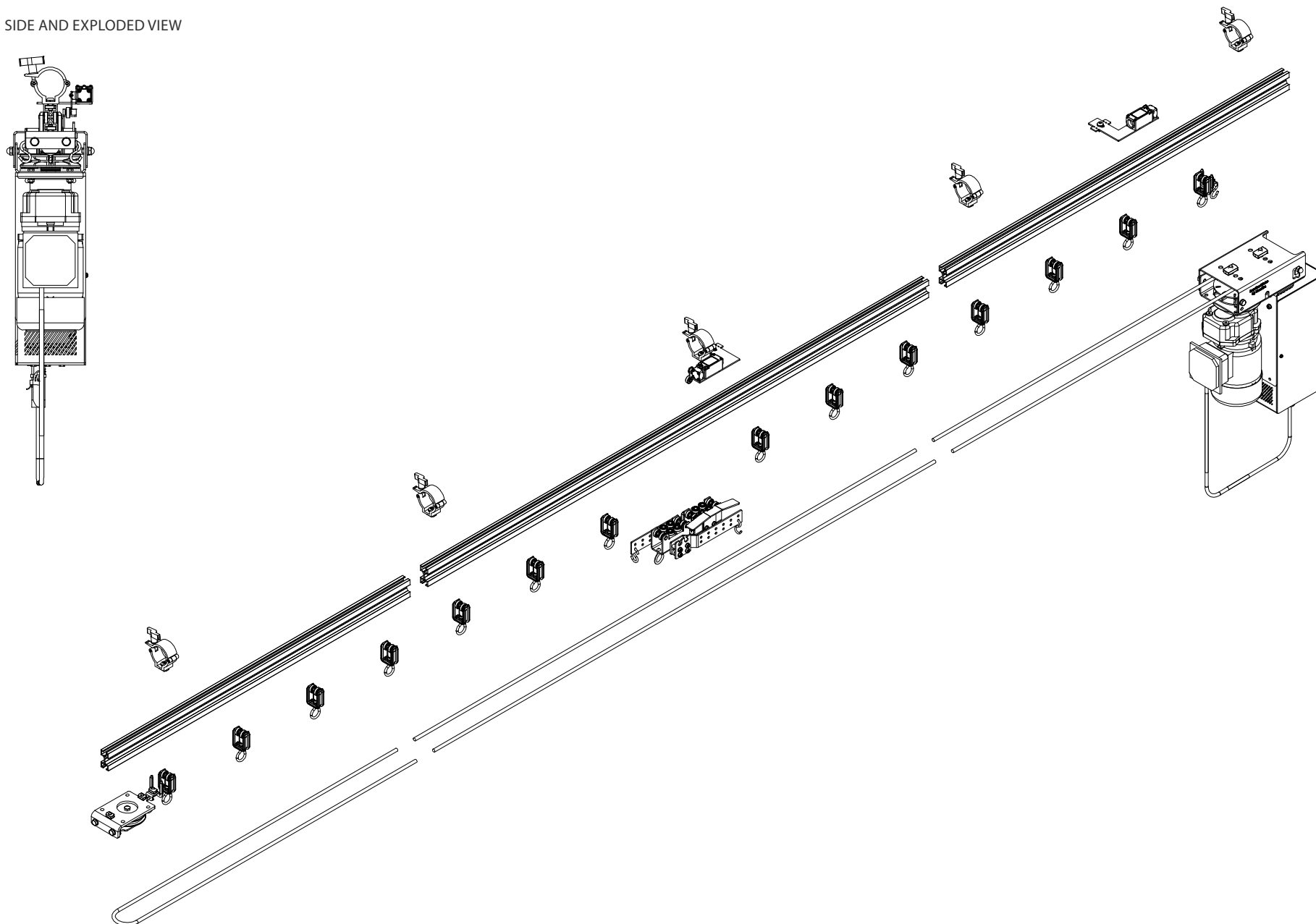
Top view



Bottom plan view



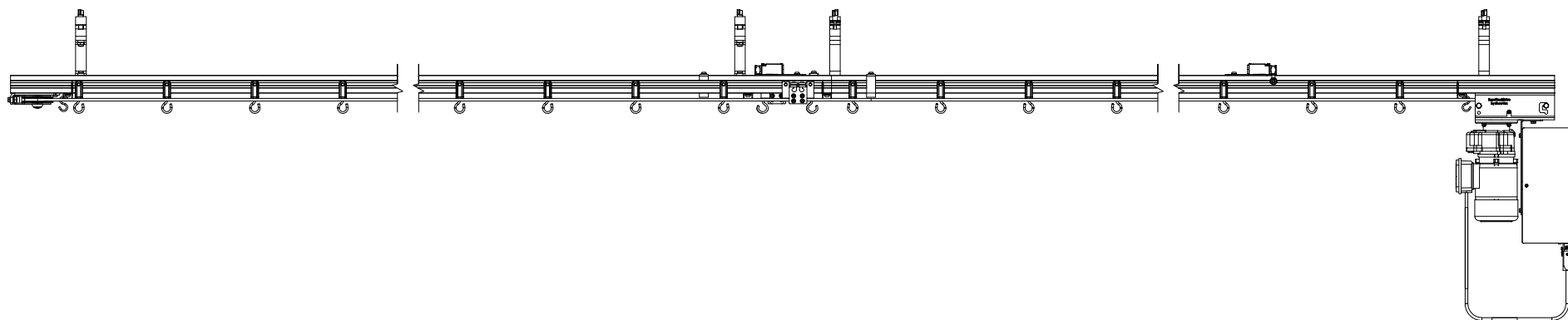
SIDE AND EXPLODED VIEW



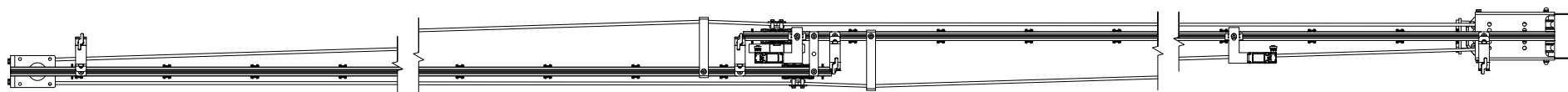
ASSEMBLED DOUBLE-TRACK CENTRAL OVERLAP

FRONT, TOP AND BOTTOM PLAN VIEW

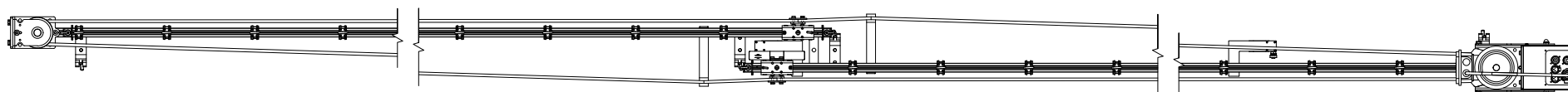
Front view



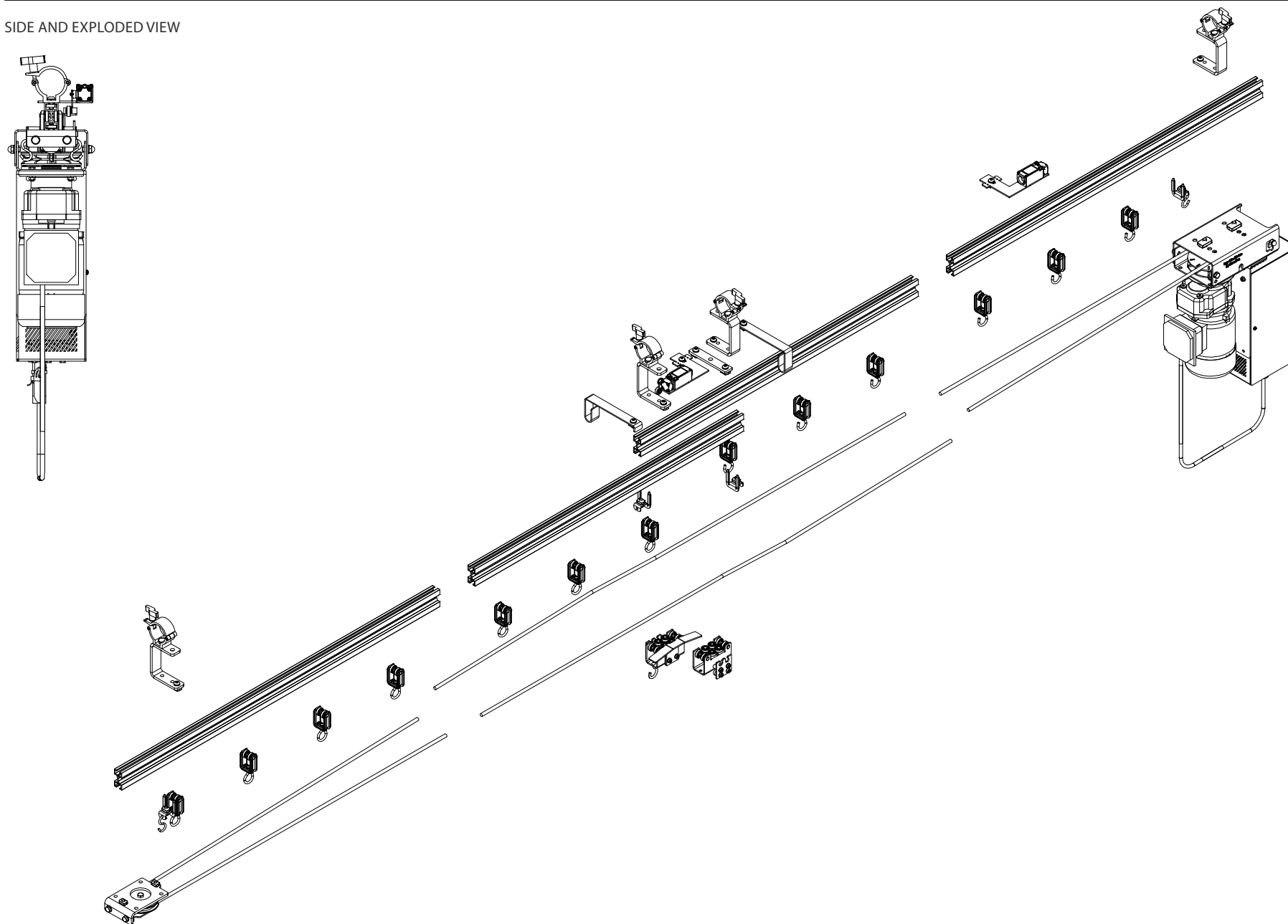
Top view



Bottom plan view

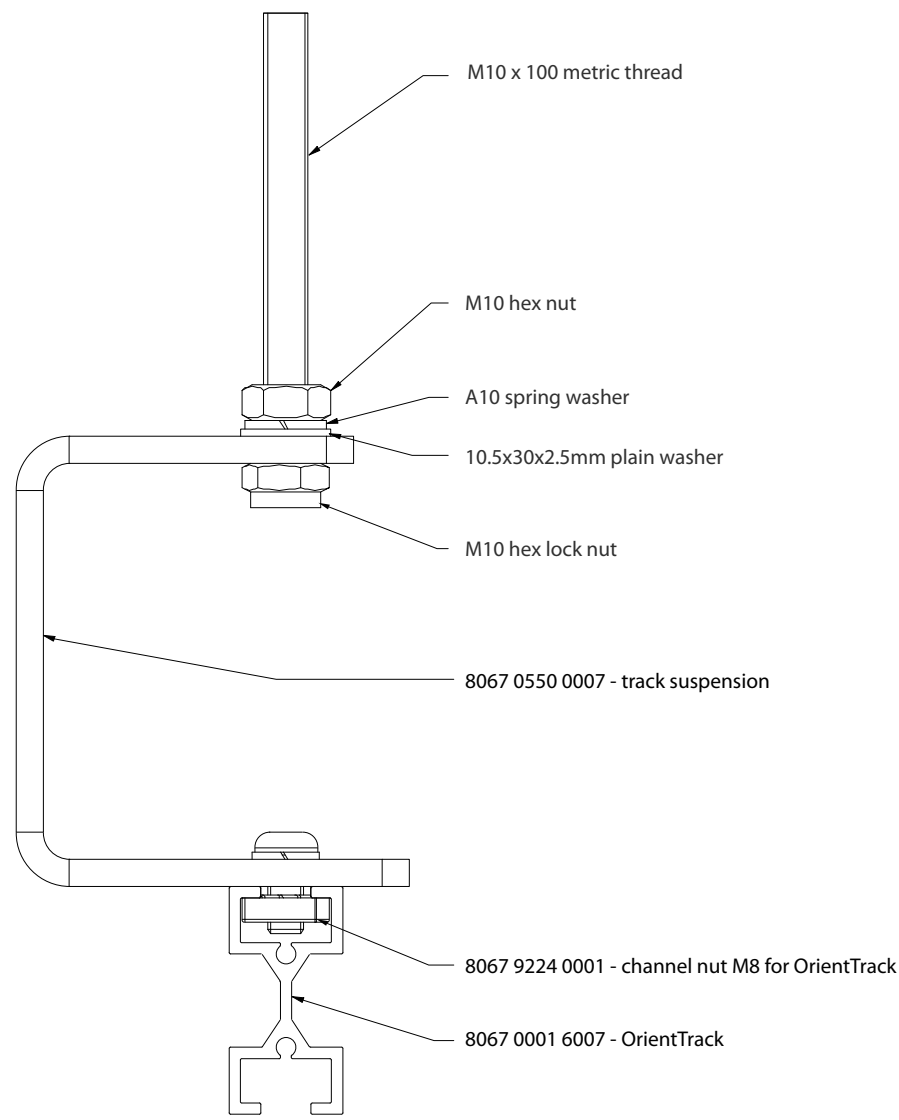


SIDE AND EXPLODED VIEW

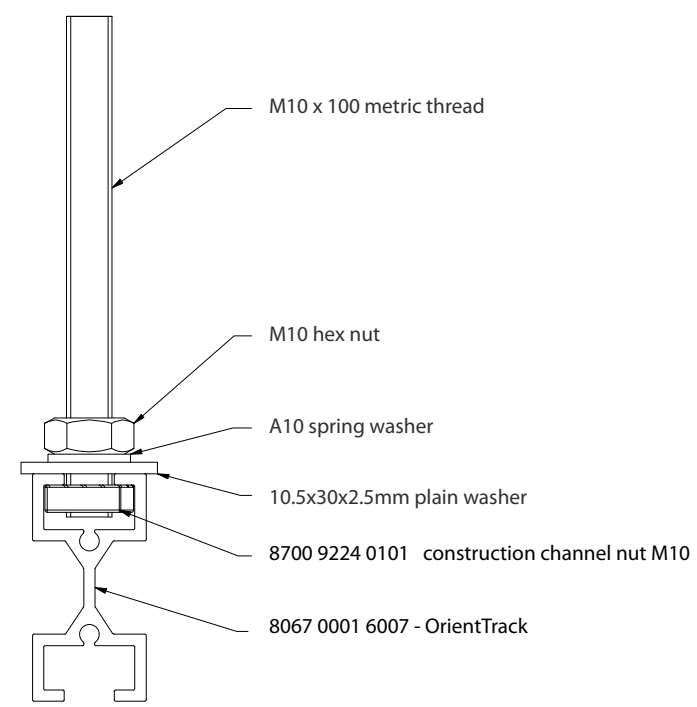


ALTERNATIVE MOUNTING OPTIONS

USING METRIC THREAD & TRACK SUSPENSION



USING METRIC THREAD & CONSTRUCTION CHANNEL NUT



INSTALLATION

This chapter provides all required information and steps necessary for installing a motorised Orient rail system.
Note that a basic technical knowledge and experience are required to understand this guide and install this product.



BE SURE TO CHECK THE “HOW TO ...” CHAPTER FOR CORRECT INSTALLATION OF THE SYSTEM.

NECESSARY STEPS

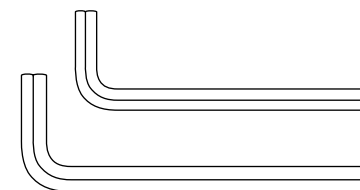
1. Determine attachment points & distance between them.
2. Place clamps on the rail(s), secure the bolt & channel nuts.
3. Place the joiner plates inside the track(s) and secure.
4. Mount first rail onto supporting structure & secure clamps to rail.
5. Mount second rail onto supporting structure, secure clamps & joiner plates.
6. Repeat step 5 for all other pieces of rail.
7. Check all clamps and secure if necessary.
8. Place & secure overlap clips. **(double-track configuration)**
9. Prepare & install the RTD motor & control unit.
10. Prepare & insert master carriers and runners accordingly.
11. Install return pulley.
12. Insert end stops as required.
13. Install limit switches & position as required.
14. Insert double-braided rope.
15. Bring the master carriers to the centre position of the rail or stage.
16. Bring the rope ends to the centre position of the rail or stage.
17. Attach rope ends to 1st carrier.
18. Tighten the operating line & attach returning rope to 2nd carrier.
19. Connect limit switches, RTD unit & remote control accordingly.
20. Connect DMX setup & set DMX address. **(optional)**
21. Test system without curtain & check curtain width.
22. Adjust limit switches if needed.
23. Hang curtain & test again.
24. Connect curtain ends to end stops. **(optional)**



When installing a rail between 2 walls, don't forget to insert all runners & master carriers and attach head & return pulley before securing the rail in the supporting structure!

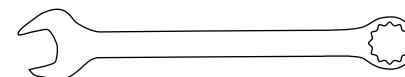
NECESSARY TOOLS

The following tools are needed to install the Orient Track.

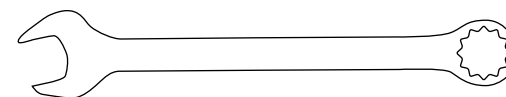


Allen key n°4

Allen key n°5



Wrench 13

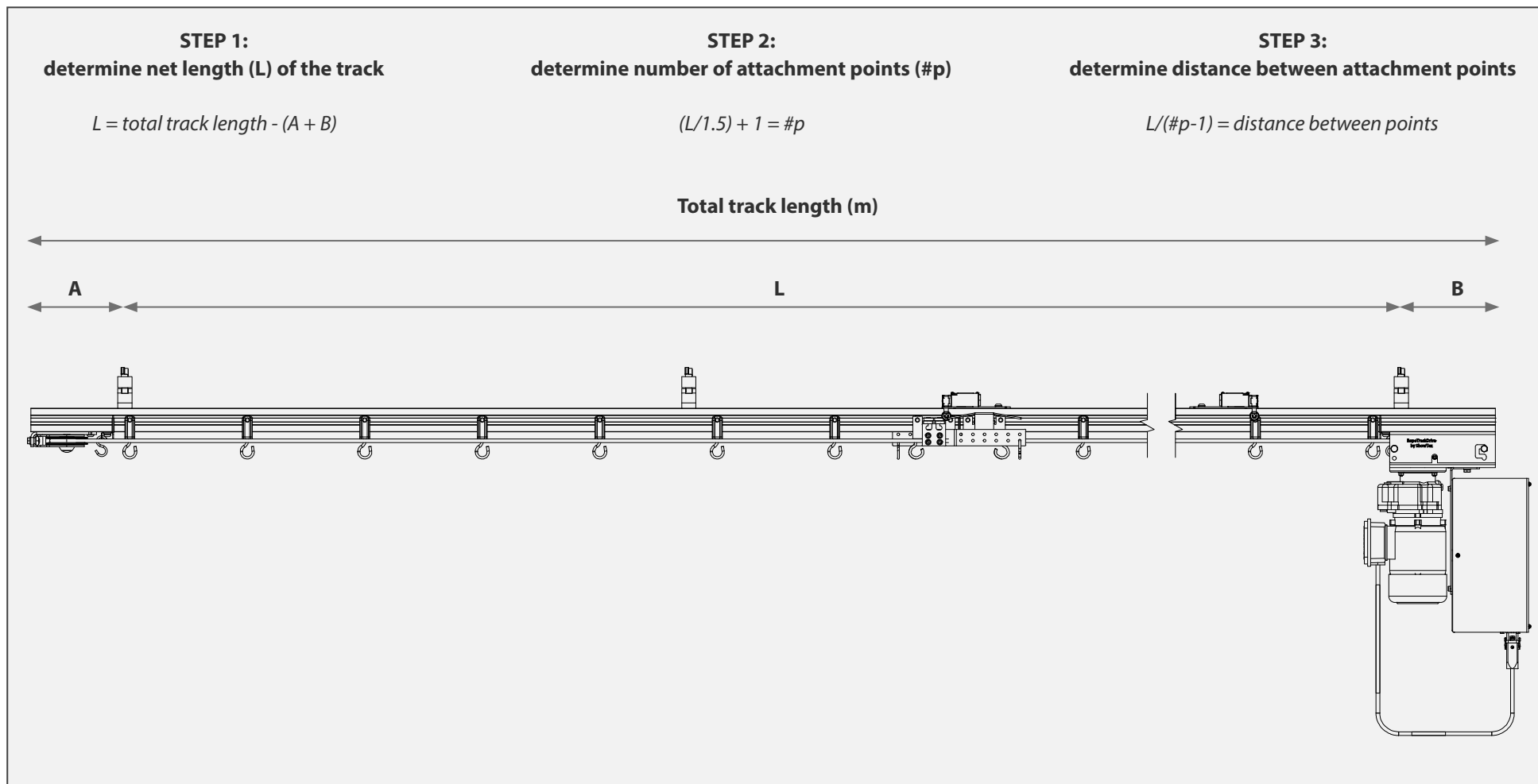


Wrench 17

HOW TO...

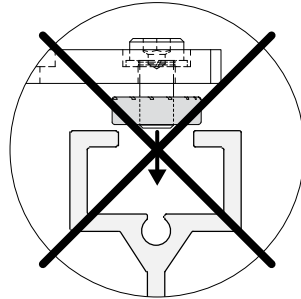
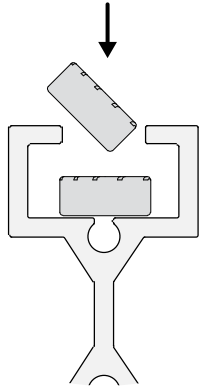
DETERMINE THE NUMBER OF ATTACHMENT POINTS & THE DISTANCE BETWEEN THEM

Determine the number of attachment points you need and calculate the distance between them by following the steps outlined below.
Never exceed the maximum distance of 150 cm between each point!

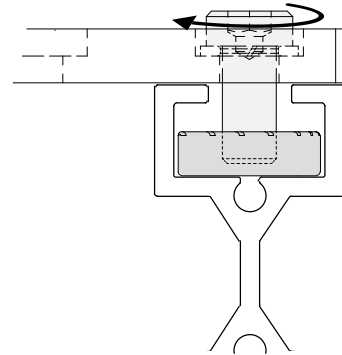


When connecting two pieces of rail, always place an extra suspension point close to the joiner set!

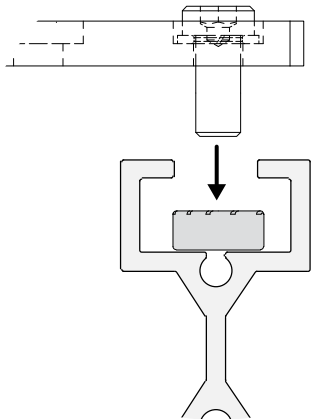
SECURE CHANNEL NUT M8



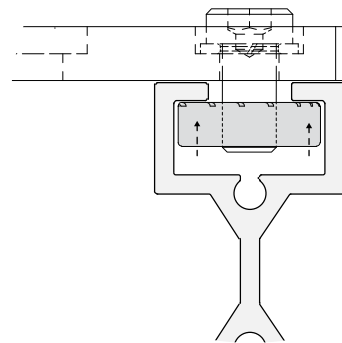
1: Place the channel nut M8 into the track profile with the ribbed side facing up.



3: Tighten the socket screw.

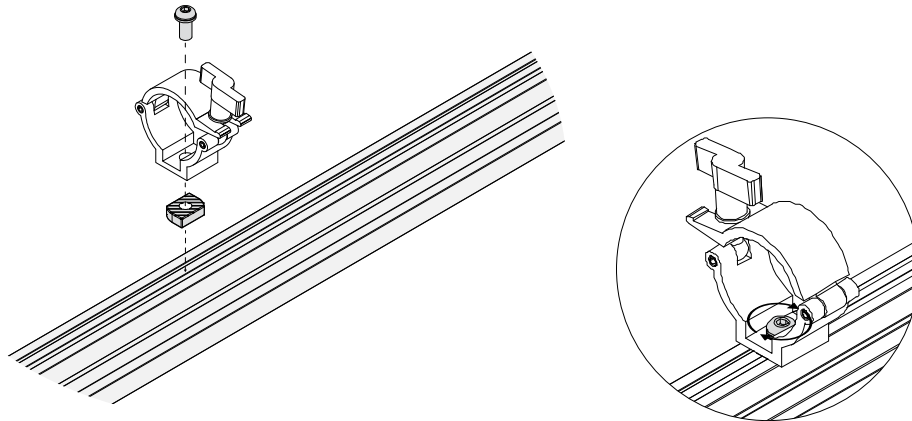


2: Align the socket screw with the channel nut M8 and place the component.



4: By turning the socket screw, the channel nut M8 will make a quarter turn and lock itself.

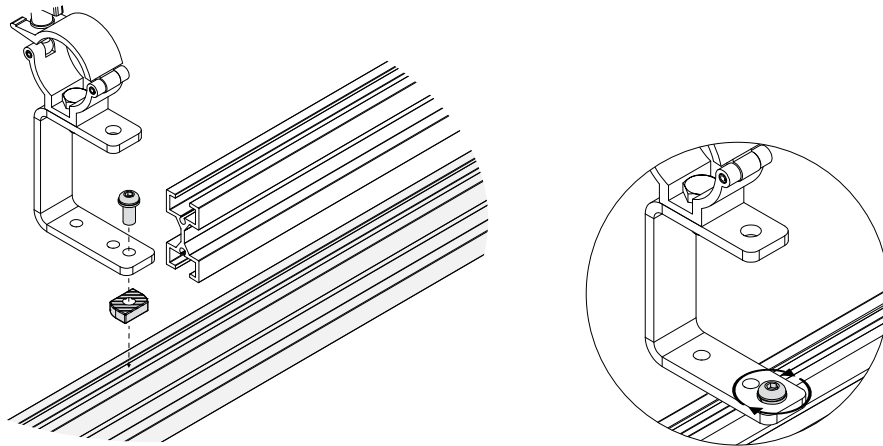
SECURE TRACK SUSPENSION & CLAMP (SINGLE-TRACK CONFIGURATION)



1: Position bolt and channel nut M8 & place clamps on the rail.

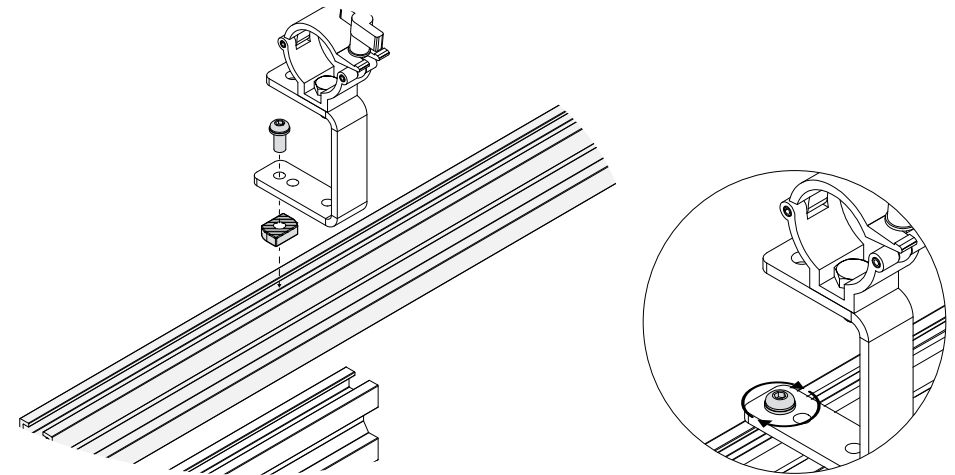
2: Rotate the nut a ¼ turn, lock it into the rail & tighten the socket screw.

SECURE TRACK SUSPENSION & CLAMP (DOUBLE-TRACK CONFIGURATION)



1: Position bolt and channel nut M8 & place clamps on the side of the return pulley.

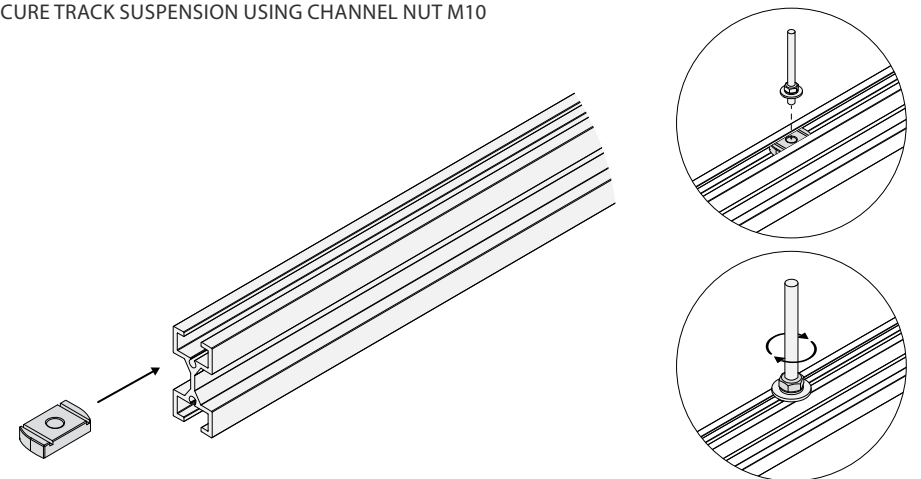
2: Rotate the nut a ¼ turn, lock it into the rail & tighten the socket screw



3: Position bolt and channel nut M8 & place clamps on the side of the motor.

4: Rotate the nut a ¼ turn, lock it into the rail & tighten the socket screw.

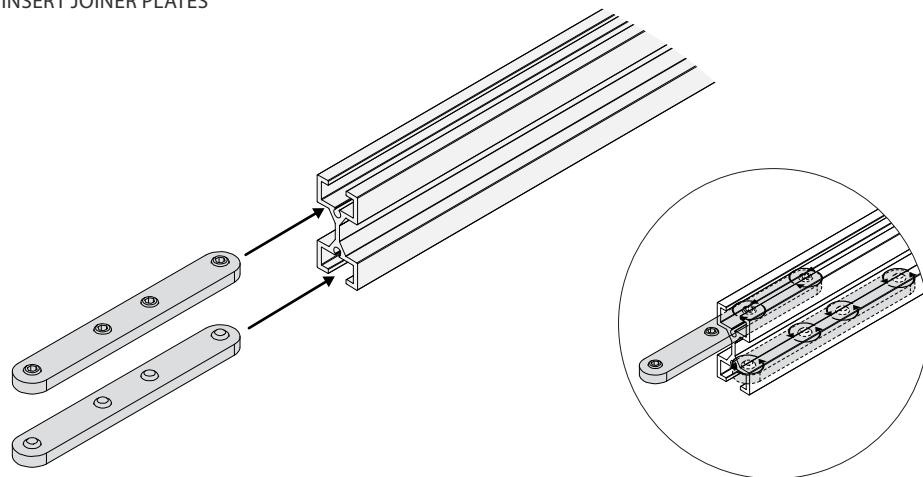
SECURE TRACK SUSPENSION USING CHANNEL NUT M10



1: Slide all channel nuts M10 into the rail at the correct distance between them.

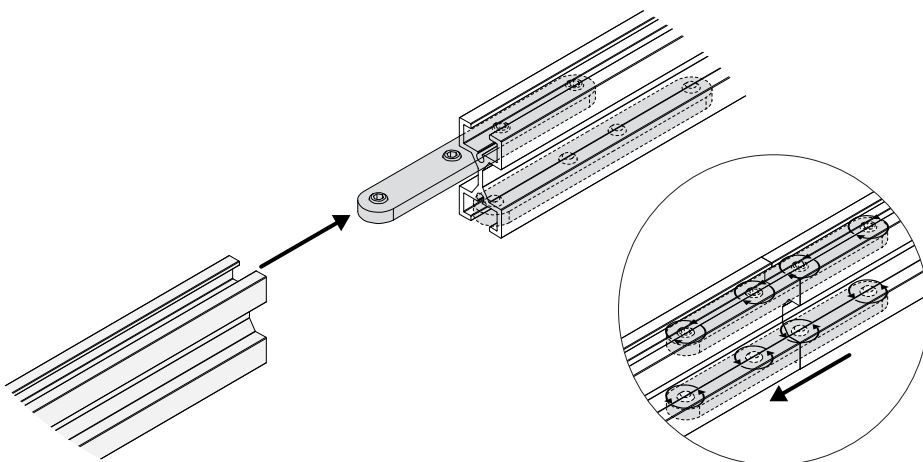
2: Place threaded rods M10, washer and spring washer, secure with nut M10.

INSERT JOINER PLATES



1: Slide the upper plate halfway & the bottom plate all the way into the rail section.

2: Fasten the socket screws of the upper joiner plate hand tight.

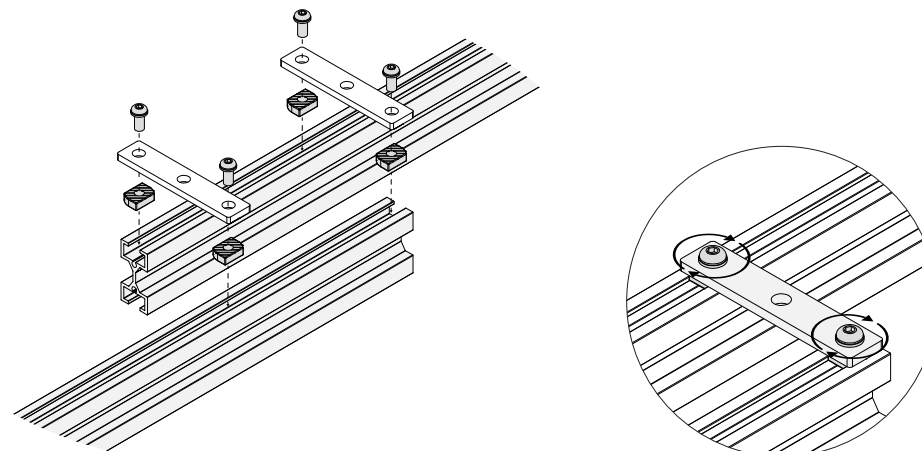


3: Slide the second rail section over the upper plate & align both tracks.

4: Slide the bottom plate over the rail connection & secure all socket screws.

INSTALL OVERLAP CLIP

⚠ ONLY WHEN USING DOUBLE-TRACK CONFIGURATION

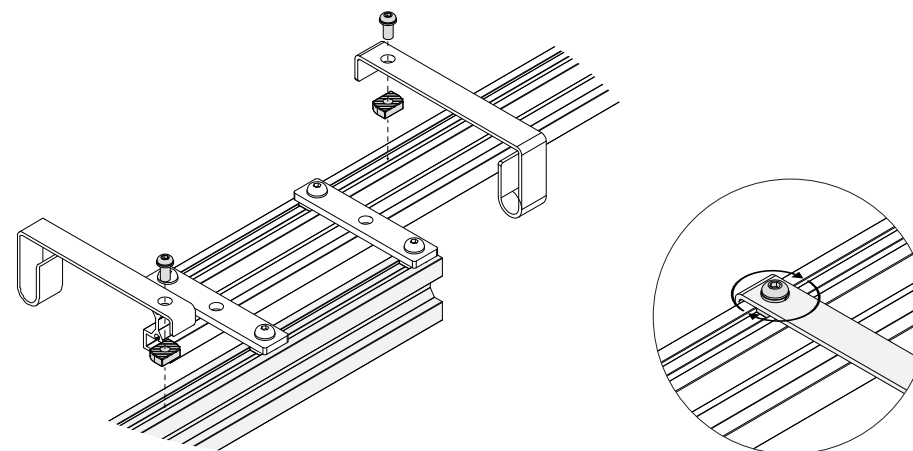


1: Loosen channel nuts M8 & place clips onto the end of the rail sections.

2: Fasten the socket screws hand tight.

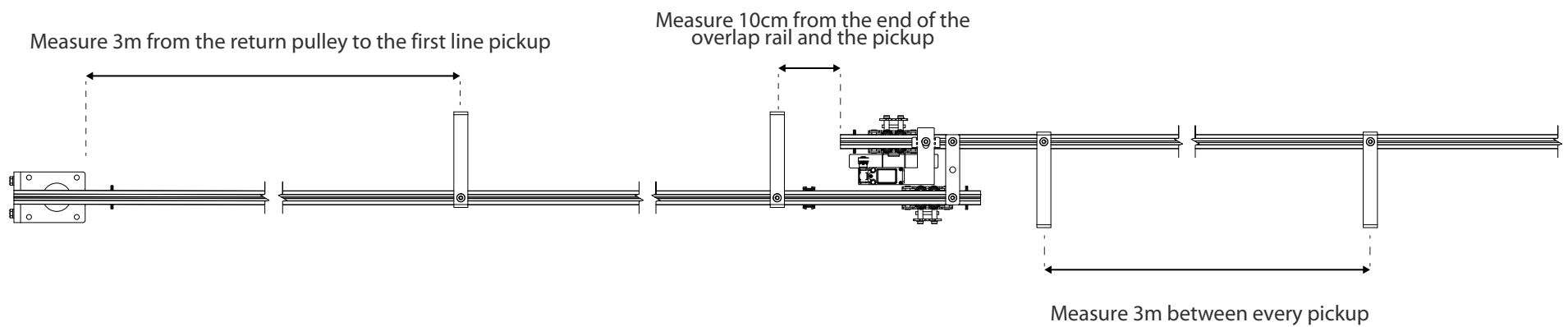
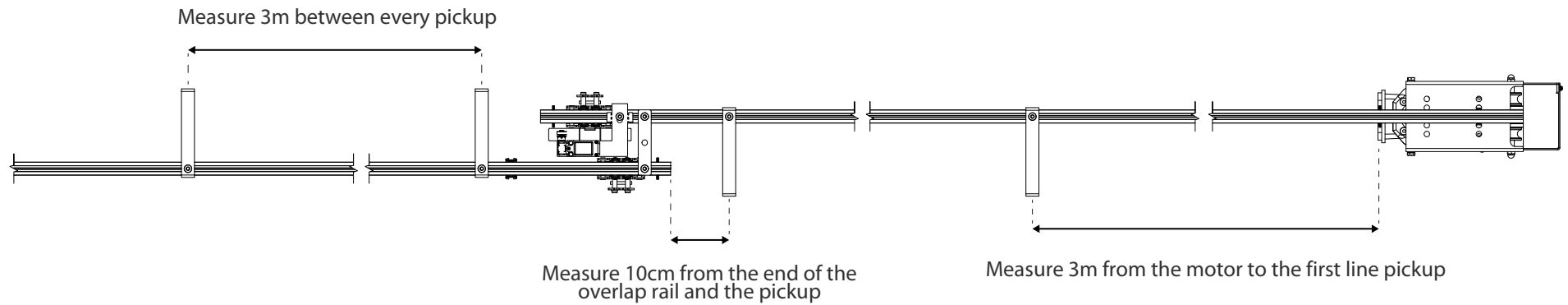
INSTALL LINE PICKUPS

⚠ ONLY WHEN USING DOUBLE-TRACK CONFIGURATION

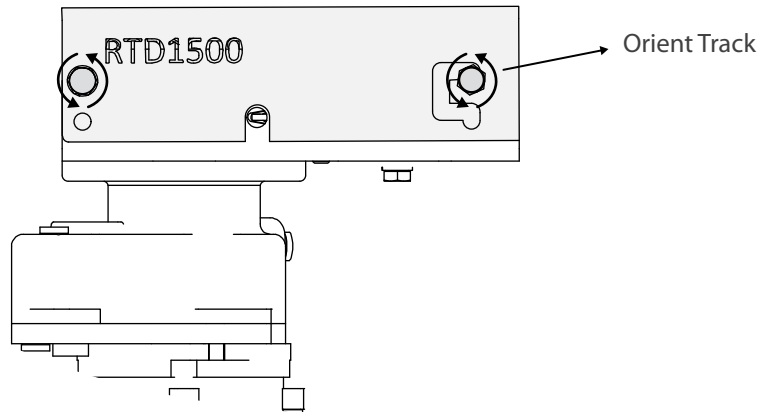


1: Loosen channel nuts M8 & place pickups next to the overlap clips.

2: Fasten the socket screws hand tight.

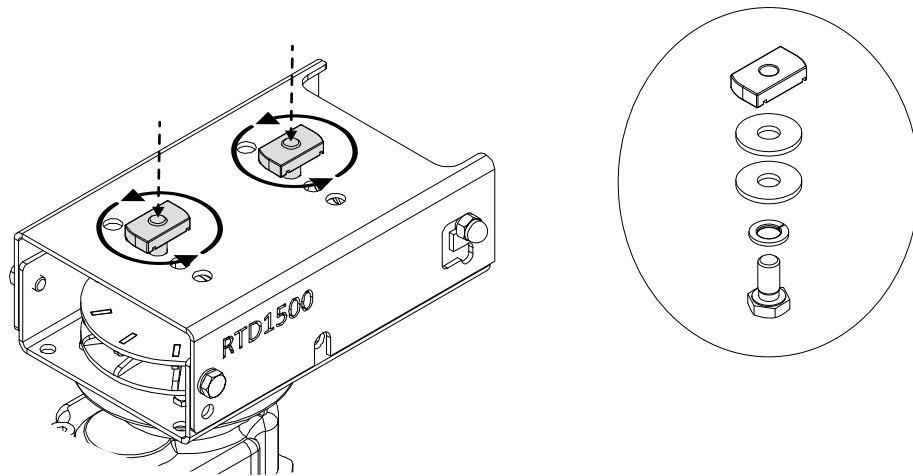


PREPARE & INSTALL ROPE TRACK DRIVE



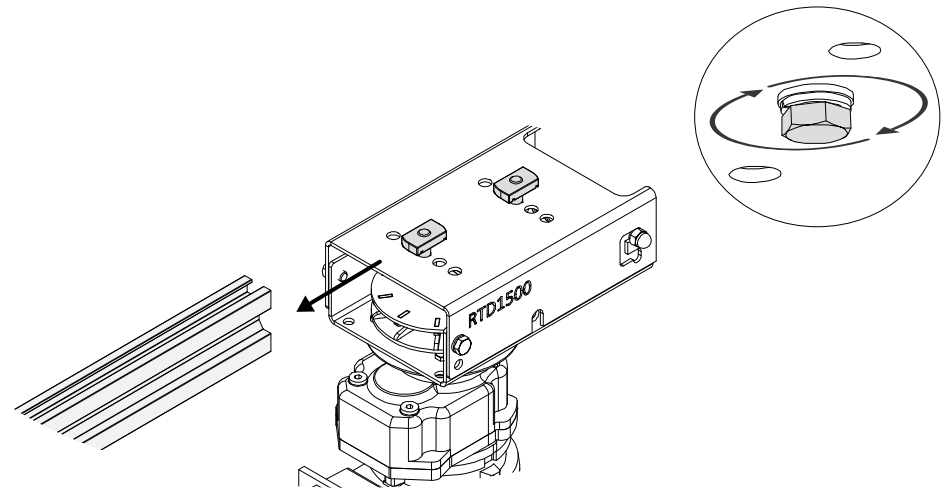
1: Loosen both bolts (M8) to adjust the height as shown above.

2: Once correctly placed, tighten the bolts (M8), add an extra ½ turn to secure.



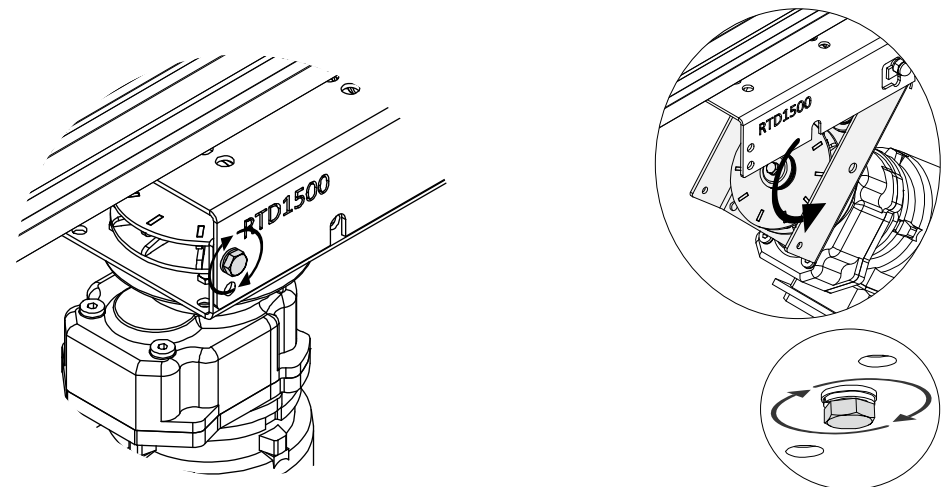
3: Place the bolt with washers in the centre position.

4: Turn the channel nuts onto the bolts (M10), leave space to slide into rail.



5: Slide the motor unit into the bottom slit of the rail.

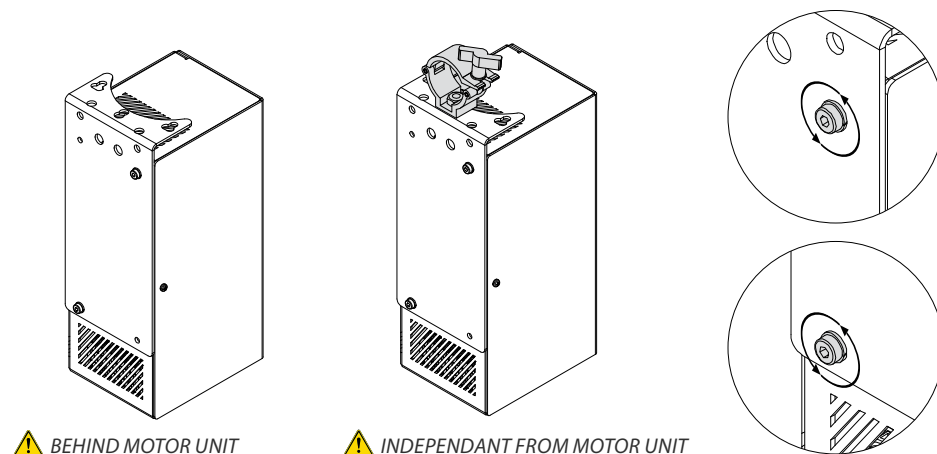
6: Hold the motor unit in place.



6: Open the transmission box.

7: Tighten both bolts (M10), add an extra ½ turn to secure motor unit.

INSTALL CONTROL UNIT (ONLY FOR RTD 1500)

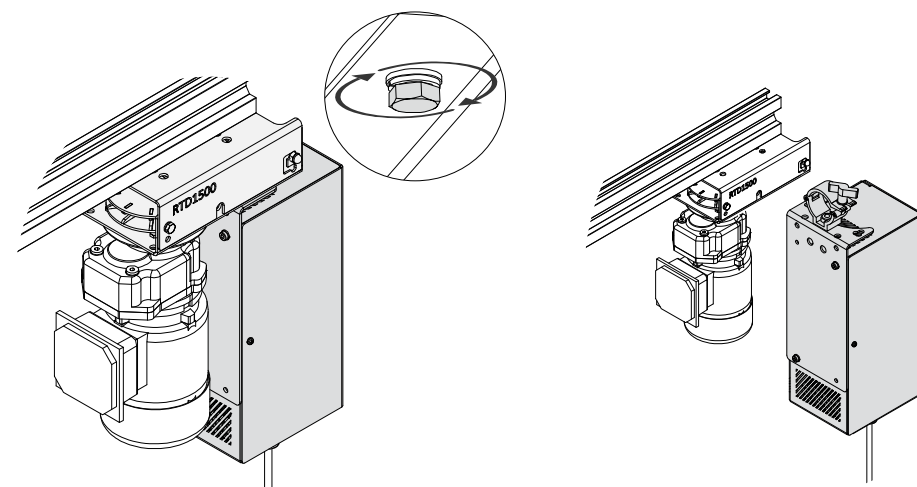


⚠ BEHIND MOTOR UNIT

⚠ INDEPENDANT FROM MOTOR UNIT

1: Choose where you want the control unit to go in relation to the motor.

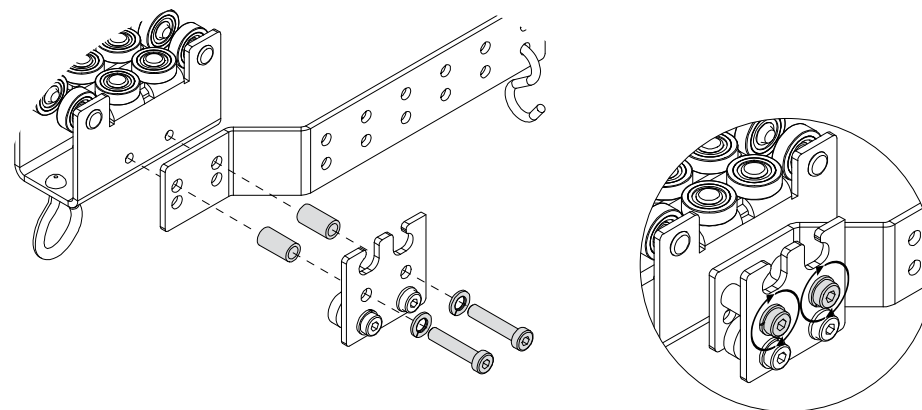
2: Connect 75kg clamp to the mounting plate to suspend on tube / truss.



3: Mount control unit onto the motor & tighten bolts, add an extra ½ turn to secure.

4: Or mount control unit on independent structure (truss or tube).

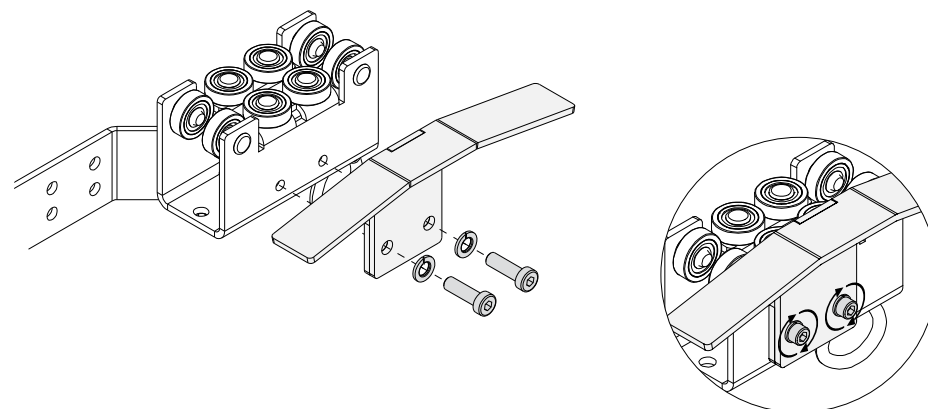
PREPARE MASTER/OVERLAP CARRIERS



⚠ ONLY ATTACH OVERLAP ARMS WHEN USING SINGLE-TRACK CONFIGURATION

1: Attach the rope clamps & overlap arms (single track) to the carriers.

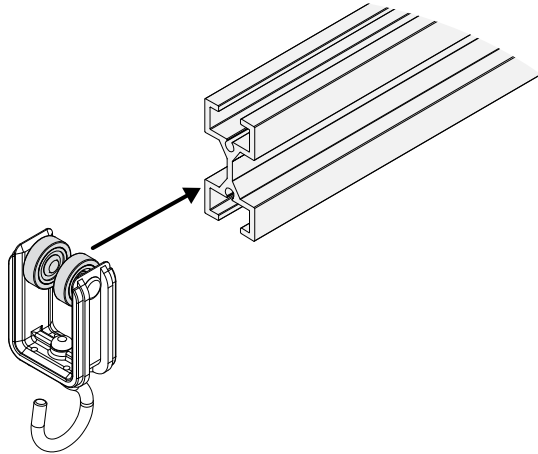
2: Tighten socket screws, add an extra ½ turn to secure.



3: Attach the ski to one of the carriers. (both single & double-track configuration)

4: Tighten socket screws, add an extra ½ turn to secure.

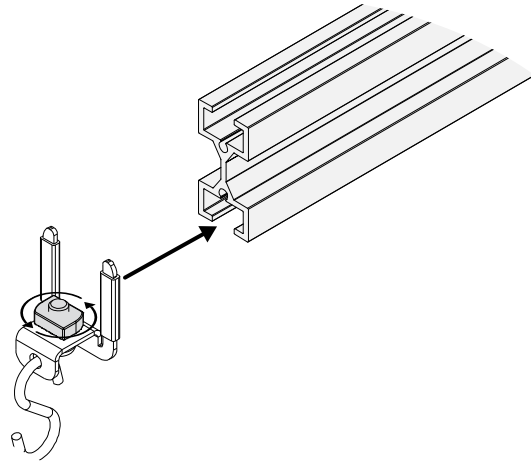
INSERT RUNNERS & MASTER/OVERLAP CARRIERS



1: Slide runners & master or overlap carriers onto rail profile.

2: Refer to exploded views in order to insert runners & carriers as required.

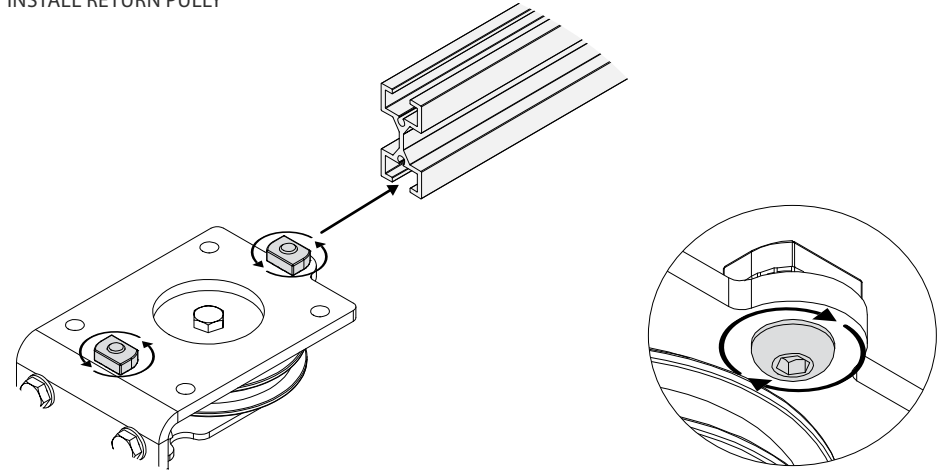
INSTALL END STOPS



1: Loosen channel nut M8 & slide end stop into the bottom slit of the rail.

2: Fasten socket screw, add an extra ½ turn to secure.

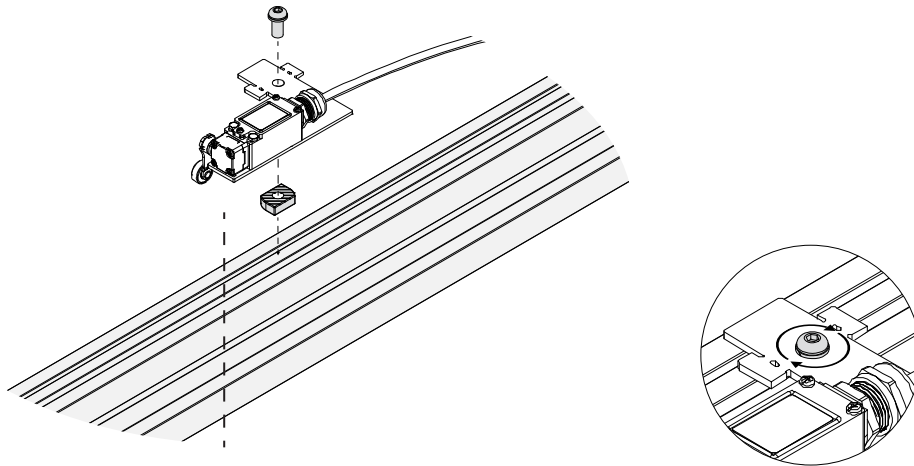
INSTALL RETURN PULLEY



1: Loosen channel nuts M8 & slide pulley into the rail.

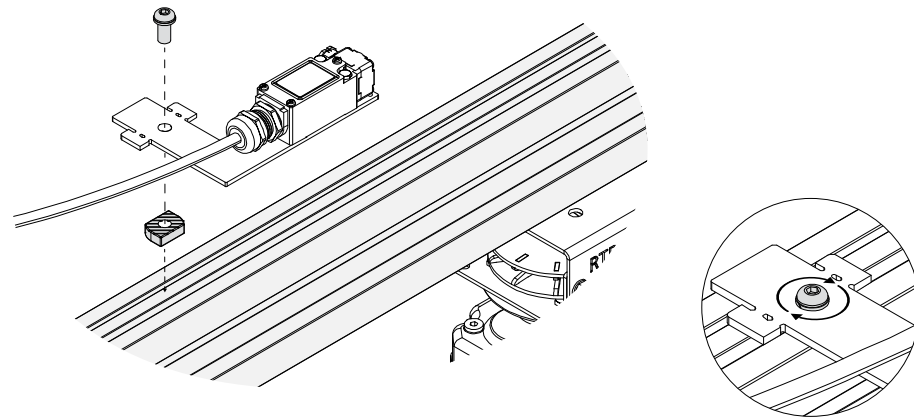
2: Fasten both socket screws, add an extra ½ turn to secure.

INSTALL LIMIT SWITCHES



1: Loosen the channel nut M8 of the limit switch & place it on the rail correctly.

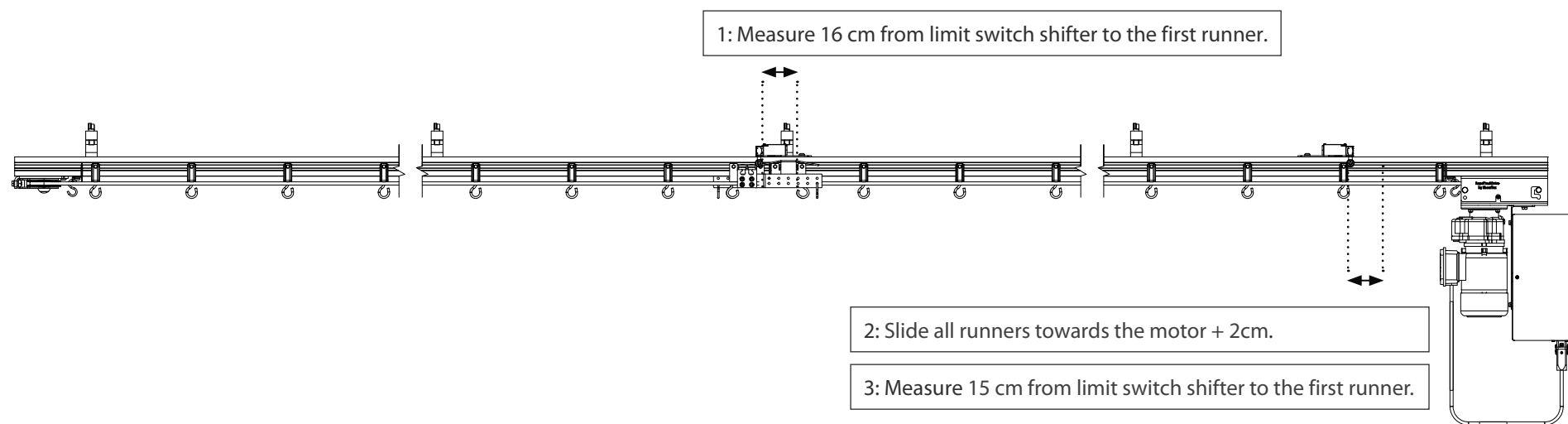
2: Tighten the socket screw to secure, refer to next page for correct positioning.



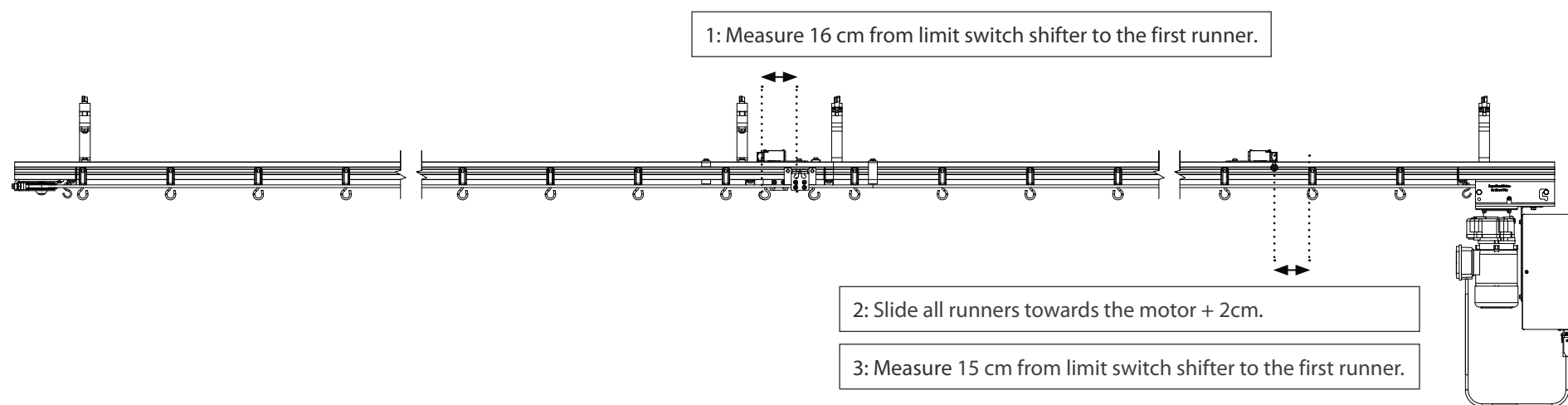
3: Loosen the channel nut M8 of the 2nd limit switch & place it on the rail correctly.

4: Tighten the socket screw to secure, refer to next page for correct positioning.

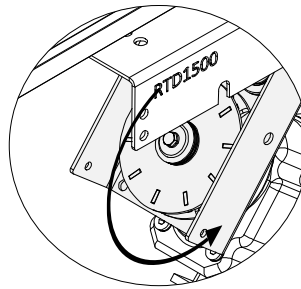
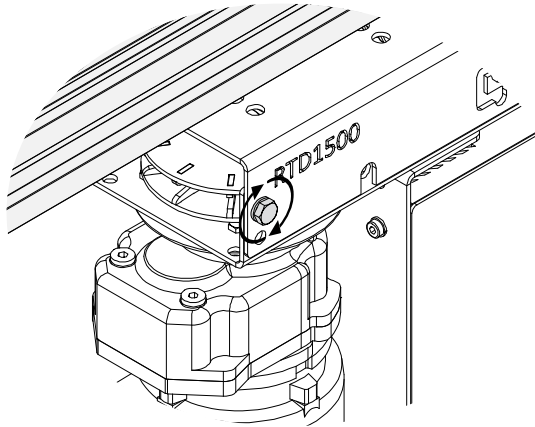
POSITIONING THE LIMIT SWITCHES: **SINGLE-TRACK CONFIGURATION**



POSITIONING THE LIMIT SWITCHES: **DOUBLE-TRACK CONFIGURATION**

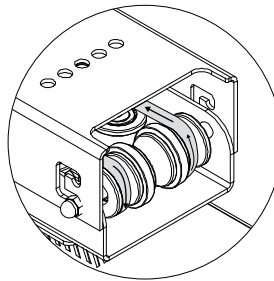
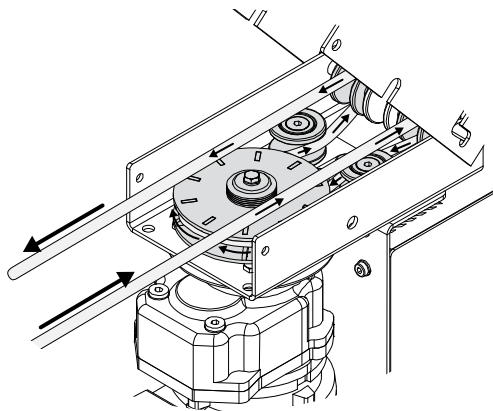


INSERT DOUBLE-BRAIDED ROPE



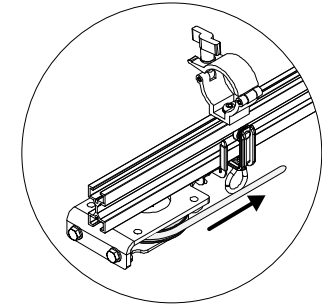
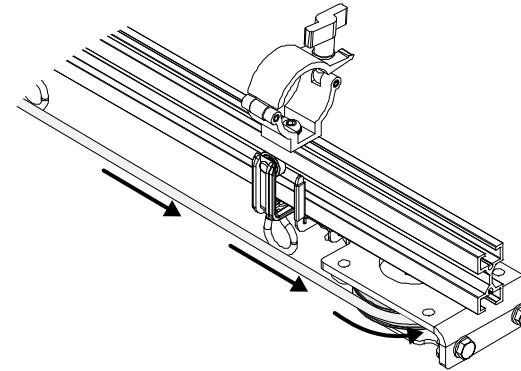
1: Loosen the bolts (M8) on both sides of the motor casing.

2: Open the rope transmission box, leave open for now.



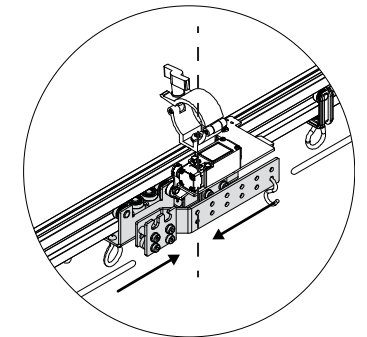
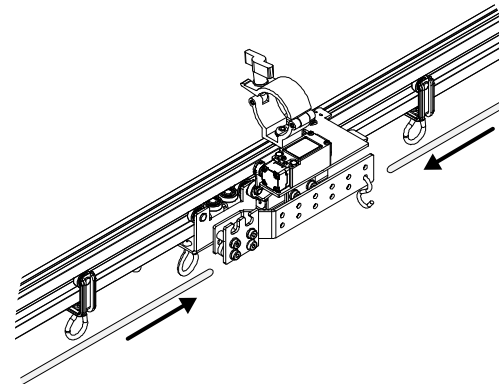
3: Thread the rope through the motor, starting at the front side of the rail.

4: Take the returning end of the rope & walk towards the return pulley.



5: Pull the returning end of the rope around the wheel of the return pulley.

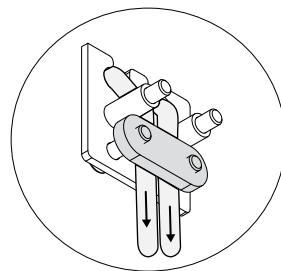
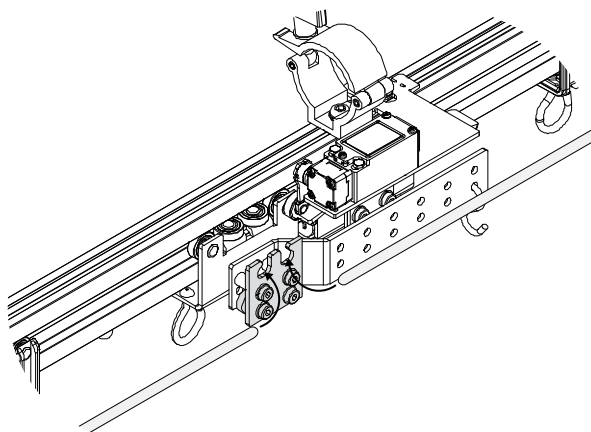
6: Walk towards the centre of the rail or stage, leave the rope end here.



7: Take the other rope end and walk towards the centre of the rail or stage.

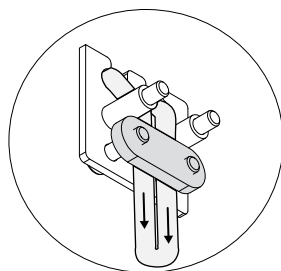
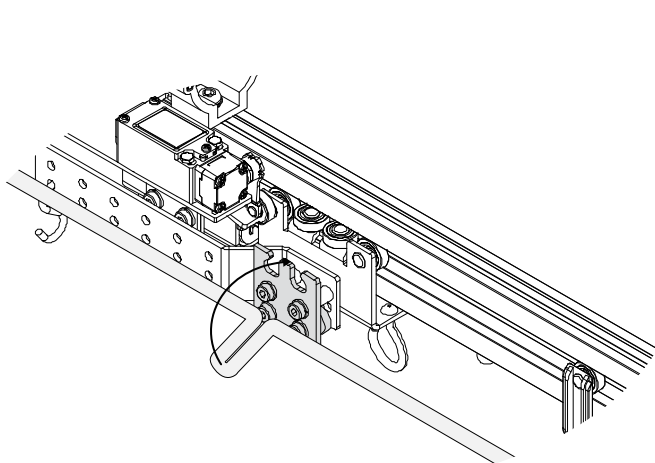
8: Make sure the master carriers are positioned at the centre of the rail or stage.

SECURE & TENSION DOUBLE-BRAIDED ROPE



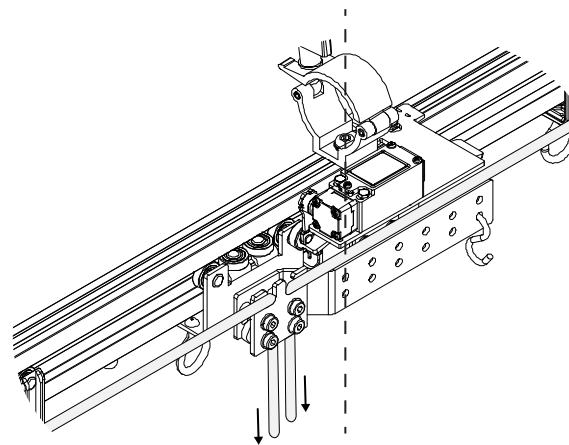
1: Tread the rope ends trough the rope clamp.

2: Tigthen socket screws, add an extra ½ turn to secure.



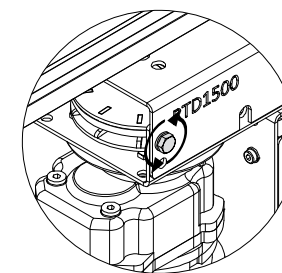
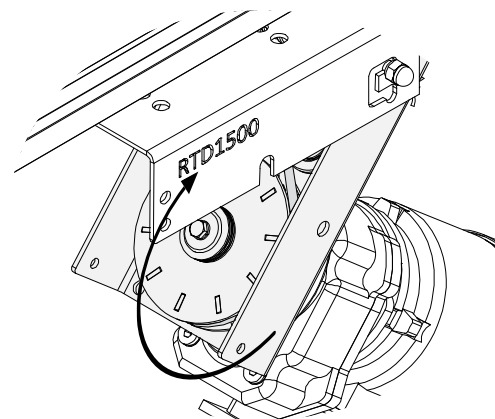
3: On the other side, make a loop using the rope and tread trough the rope clamp.

4: Tighten socket screws, add an extra ½ turn to secure.



5: Go back to the front side & double check center position of carriers.

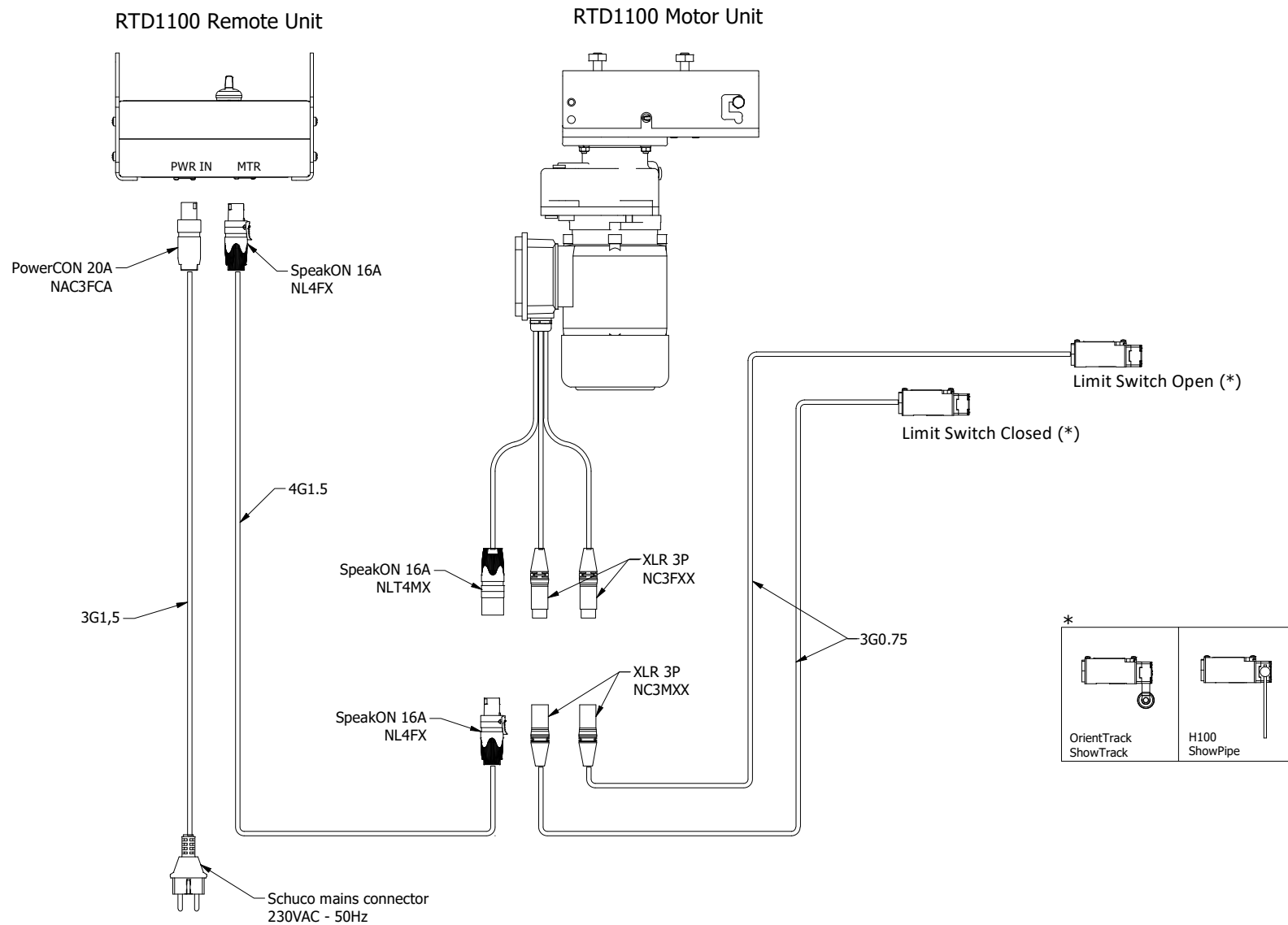
6: Pull the operating line until the rope is sufficiently tensioned.



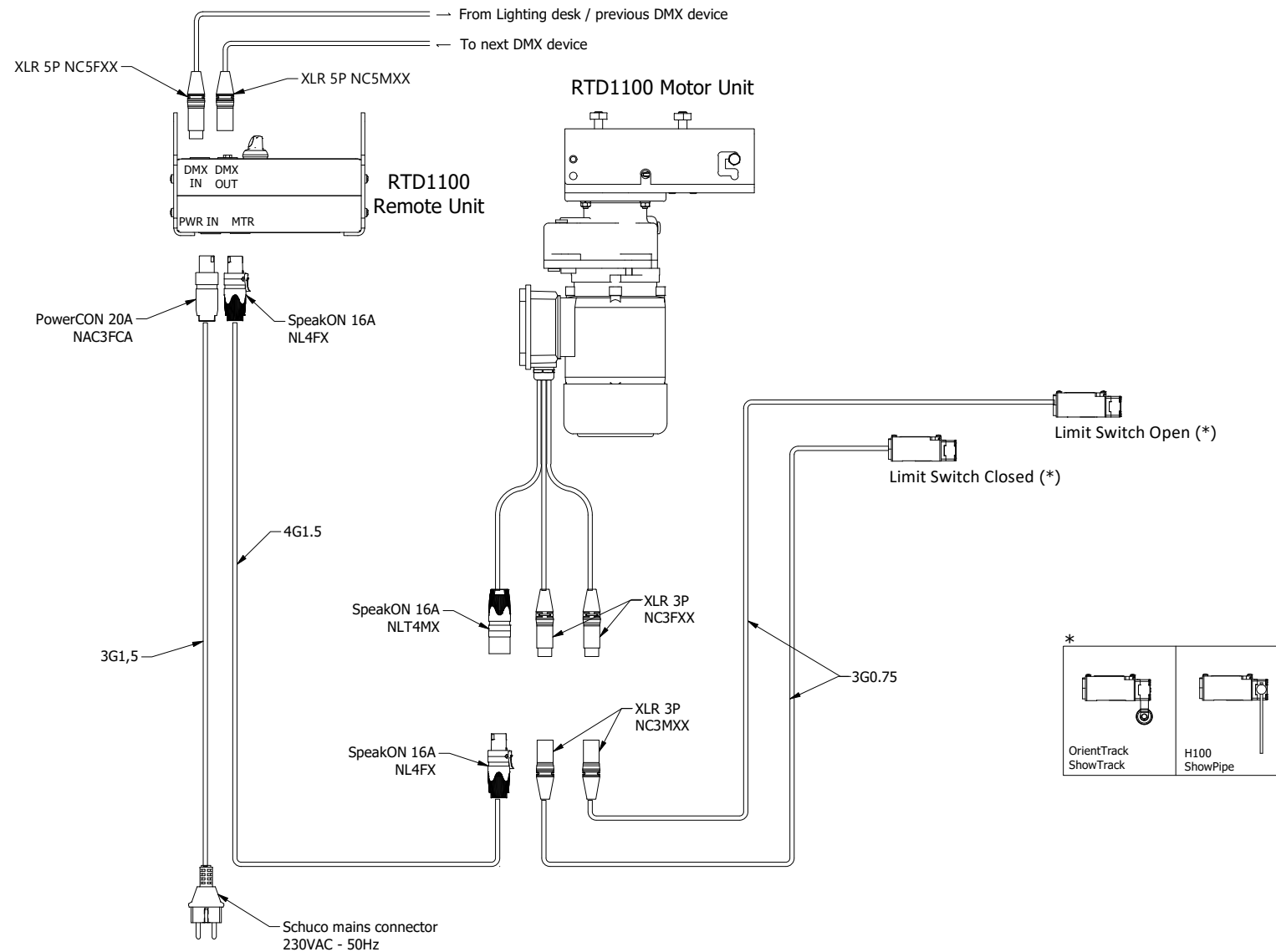
7: Close the motor casing & fasten the bolt.

8: This will tighten the rope.

CONNECT LIMIT SWITCHES, RTD 1100 UNIT AND REMOTE CONTROL



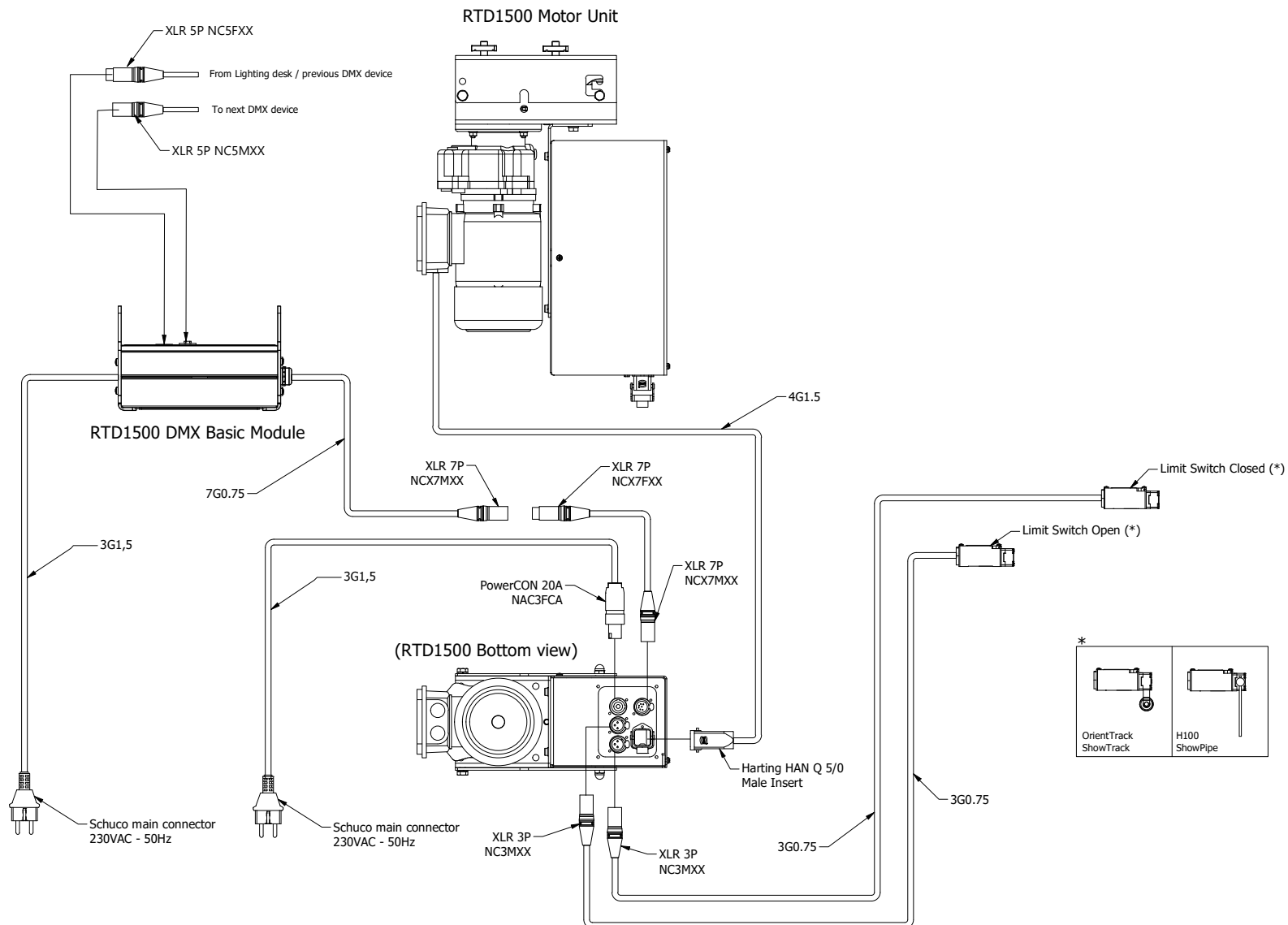
CONNECT LIMIT SWITCHES, RTD 1100 UNIT AND DMX REMOTE CONTROL



SHOWTEX INSTALLATION MANUAL



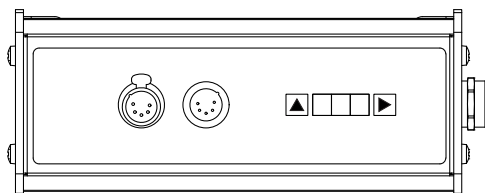
CONNECT LIMIT SWITCHES, RTD 1500 UNIT AND DMX REMOTE CONTROL



SETUP THE DMX MODULE

▲ Scrolling thru the menu.

▶ Changing the display.



⚠ DMX overrides manual control.

SETTING OF THE DMX VALUE

Push 1x	▲	On the display appears Adr (after 3 seconds the display will turn off). Each DMX address has 3 values.
Push 1x	▶	<div> <div>☀</div> <div>Push on ▶</div> <div>confirm with ▶</div> </div> <p>The second digit will start blinking (after 5 sec the display will turn off). to change the value from 0 to 9 (jumps back to 0 after 9).</p>
Push 1x	▶	<div> <div>☀</div> <div>Push on ▶</div> <div>confirm with ▶</div> </div> <p>The second digit will start blinking (after 5 sec the display will turn off). to change the value from 0 to 9 (jumps back to 0 after 9).</p>
Push 1x	▶	<div> <div>☀</div> <div>Push on ▶</div> <div>confirm with ▶</div> </div> <p>The third digit will start blinking (after 5 sec the display will turn off). to change the value from 0 to 9 (jumps back to 0 after 9).</p>
<p>Confirmation of the setting, wait until REC appears on the display.</p> <p>The second channel will automatically follow the start address.</p>		

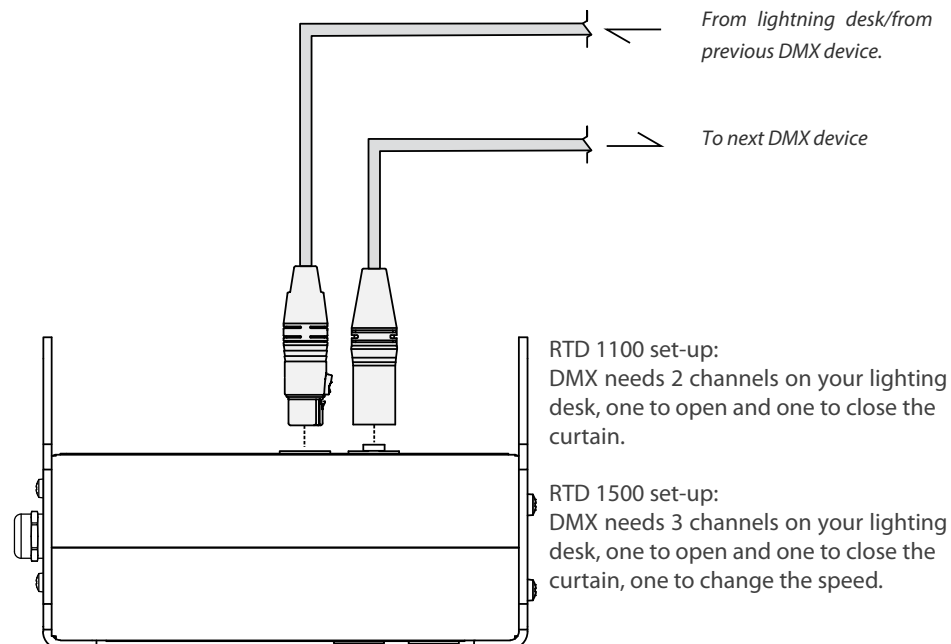
SCROLLING THRU THE MENU

Push 1x ▲ to scroll thru the menu

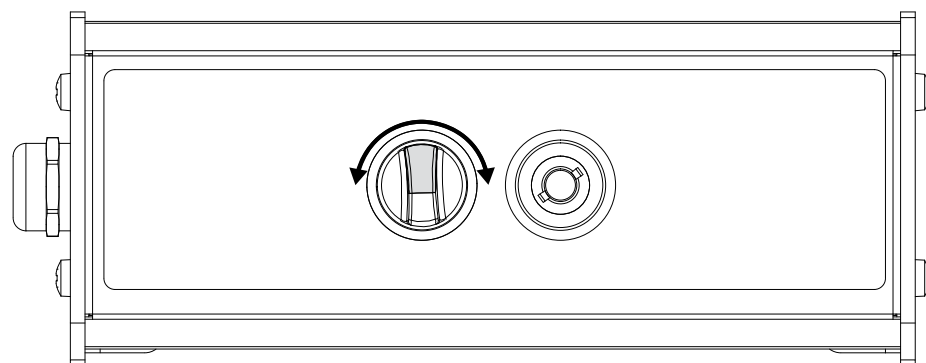
To change, push 1x ▶ (choose between ON/OFF or 0/1) and confirm with ▶

The display will turn off after 5 seconds and the last setting will be saved.

Adr	DMX starting address
Dis	Display, as preferred, ON/OFF
Version prior to 2021	
S1, S2, S3, S4	Not applicable, has to be set to OFF
Version from 2021 onwards	
Hld	DMX hold mode, has to be set to 0
Per	DMX personality, has to be set to 1
Res	Reset of the settings



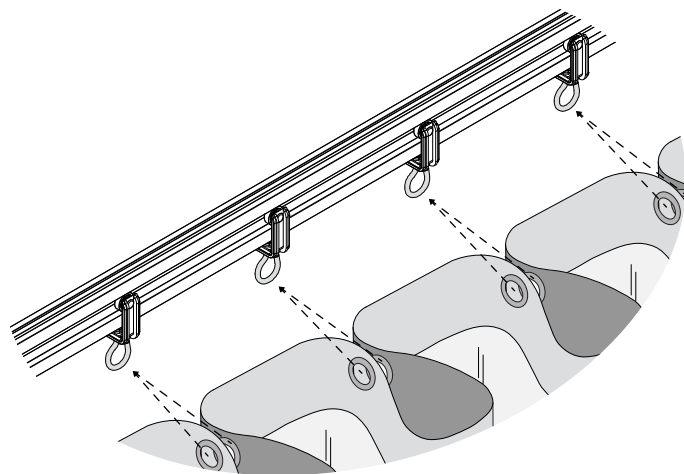
INSTALL CURTAIN



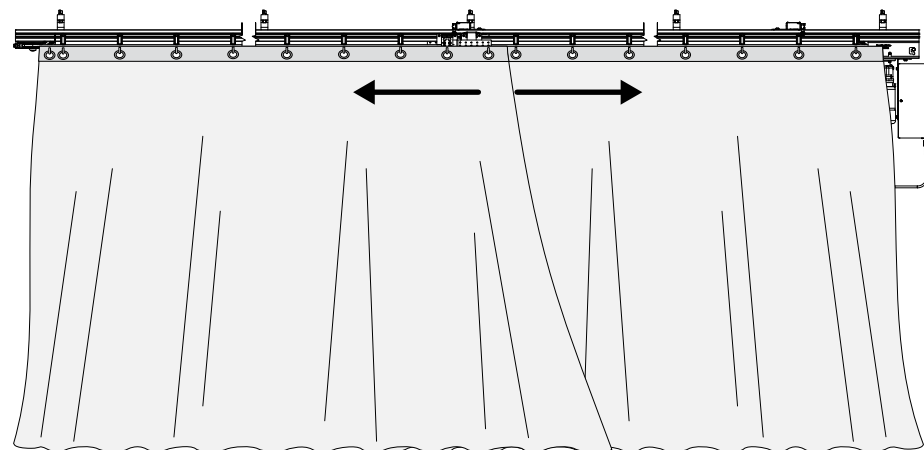
RTD 1500 remote control

The same principle applies to the RTD 1000 DMX BASIC remote controller

1: Check if the limit switches are plugged into the correct input (trial and error) & if the (overlap) carriers are in line with the centre of the rail or stage. Use the remote to open and close the system, if the (overlap) carriers end up at the same point as they started, your system is properly installed.



2: In order to create a pleated curtain you must take two grommets together and attach them to the same swivel hook. When you ordered a flat curtain, simply attach each grommet to a separate swivel hook.



3: Hang the curtain and do a final check-up of the rail system and curtain width. Perform the test using the same method as described in the first step of this chapter.

CARE & MAINTENANCE



Periodic, regularly scheduled maintenance inspections are necessary for any mechanical system. A theatrical curtain track system is no different. It has components that must be inspected, adjusted, maintained and replaced. **To keep your system safe and in good working order, a regular inspection and maintenance programme must be implemented.**

Once the operating personnel has had the opportunity to work with the system during the first year, certain procedures may be added or adjusted according to your facility requirements.

ITEM	w	m
Operate curtain tracks	x	
Listen for unusual carrier noise	x	
Check if curtain tracks are operating smoothly		x
Inspect conditions of operating line		x
Inspect operating line tension		x
Listen for unusual pulley noise		x
Inspect master carriers and cord clamps		x
Inspect curtain to carrier attachment		x
Inspect track joints for alignment		x
Inspect track channel for debris		x
Inspect attachment of track to building structure		x

* W = every week

* M = every 6 months

Within 24 hours of using a recently installed system, confirm if the rope is tensioned correctly for curtain movement.

The best way to maintain your theatrical curtain track system, including the RTD motor unit, is by using it regularly. This will keep the grease properly distributed and allow the operator to regularly check for unusual noise or drag in the system. Above-average use or operating the curtain track at locations subject to high humidity, dust, extreme temperature changes, etc. may require shorter intervals than indicated in the scheduled programme outlined above.

TROUBLESHOOTING

Please perform the following steps:

IF THE CURTAIN STOPS MOVING SMOOTHLY	
1.	Check if objects are obstructing the track.
2.	Check for damage to the track, repair if this is the case.
3.	Check for debris on the track or runners, if found, remove carefully.
4.	Check for damaged runners, replace if applicable.
5.	Check that all couplers are aligned without gaps, if not, align them.
6.	The joints between tracks should not be too loose nor too tight to avoid a bent track.
7.	If the curtain slides out of the track, check if the end stops are loose or missing. If necessary, tighten or replace.
8.	If your track has a switching point, check that all parts are correctly aligned. If not, adjust alignment.
9.	If the curtain blocks after triggering the limit switch, disconnect the XLR plugs from the motor and reconnect to the other outlet.

CONTACT & SUPPORT

For more technical assistance, please contact your local ShowTex branch. The address and contact information can be found on our website:

www.showtex.com