

ShowTex User Manual

TMC DMX Pro

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ShowTex

AMAZING STAGE FABRICS IN MOTION

Table of Contents

Introduction	03
Safety Instructions	04
Components	05
Assembly	07
1 Secure the motor to the track	07
2 Remove the motor's protective cover and operating line guide plate	07
3 Thread the operating line	08
4 Install the limit switches	09
5 Install the control panel	09
6 Connect the motor to the control panel	09
7 Connect the remote control to the control panel	09
8 Connect the limit switches to the control panel	10
9 Connect the control panel to the power outlet	10
10 Switch the TMC DMX Pro to manual control option	10
11 Test the position of the limit switches	11
12 Test the general operation of the TMC system	11
13 Hang the curtain	11
14 Set the soft limits	12
14.1 Set up with the remote control	12
14.2 Set up with the keypad on the control panel	12
15 Connect the DMX cable to the control panel	13
16 Program the DMX channels	13
17 Switch the TMC DMX Pro to DMX control	13
Care and Maintenance Instructions	11
Trouble shooting	12

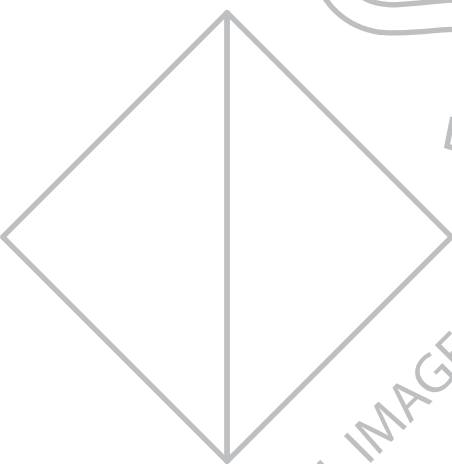
Introduction

- The TMC DMX Pro system facilitates computerized motion control of curtains and set pieces along a motorized track system.
- The operating line and head pulley guarantee maximum grip for extremely accurate movement.
- The TMC DMX Pro system is equipped with an easy to use remote control with 370W open/close switch and speed controller.
- The speed controller allows for fast motion with a variable speed of 0 to 80 cm/sec
- The TMC DMX Pro system makes it possible to open and close curtains manually and through DMX control.
- The system can be partially integrated into the show by setting 2 DMX channels. Channel 1 opens the curtain and channel 2 closes the curtain. Speed can be controlled through a remote control unit.
- The TMC system is compatible with the ShowTex H100, Showpipe, 3-way, UniTrack and ShowTrack track systems.



Safety Instructions

- Read this user manual carefully
- The motion system may only be used to move curtains and screens. Never use this system to move people, animals, or any other heavy objects.
- Installation and service of the units should only be carried out by qualified technicians familiar with the system and its operation. Installation and operation must take place in a dry frost-free environment.
- To prevent electrocution and contact with moving parts, disable the power supply before carrying out any work on the units including but not limited to operating line and curtain mounting or removal of the casing or cowling. A sudden unexpected start up of the system by not disabling the power in both the standard and DMX units creates a risk to the operator.
- Units must be installed with a corresponding earth wire with the same section as the power cable.



Component Parts

The TMC DMX Pro system consists of the following parts:



TMC DMX Pro System



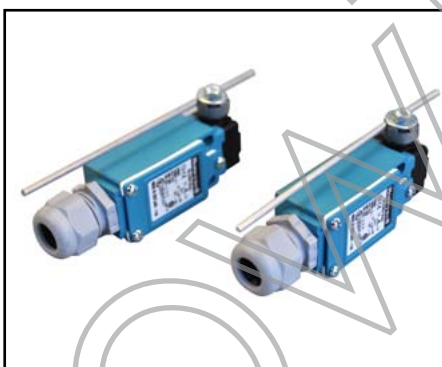
Controller



Remote Unit TMC



Power Supply Cable



Limit Switch Set



Cable 3G/0,75 +
XLR 3 Male Plug

Naam	Art.nr.	information
TMC DMX Pro + controller	8050 0741 3707	370 W
Remote Unit TMC	8050 0766 0030	with 25m cable
Power Supply Cable	8150 0912 0027	
Limit Switch Set	8050 0770 0050	2 pieces
Cable 3G/0,75	0350 0101 5000	25m
XLR 3 Male Plug	0360 0003 0010	

Extra tools:

- Socket head wrench M6

Specifications

- Single phase power supply 2x 230Vac + earthing
- Speed of rotation 50 Hz: 35m/min
- Height: 460 mm
- Width: 210 mm
- Depth: 350 mm
- Operating line Diameter: 8mm
- Motor: 0,37 / KW I=1:10 / N2=138tr/min
- Electrical case to hang up with the cord unit with:
 - Nord Inverter SK 500E 370 323 A with a 370 Watt capacity
 - Dmx-Uss link via standard Dmx channels



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Assembly

In order for the system to operate correctly the following steps should be taken:

1 Securing the motor to the track

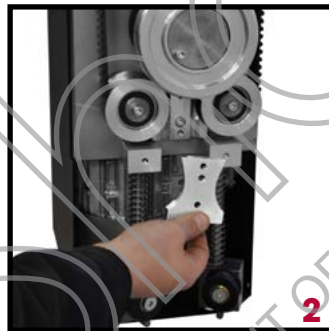


Connect the motor to the track

Attention: Runners and ball raced runners should already be installed in the track.

The motor is compatible with the H100, Showpipe, 3-way, Unitrack, ShowTrack track systems from ShowTex.
For track installation instructions please refer to individual track manuals.

2 Remove the motor's protective cover and operating line guide plate.

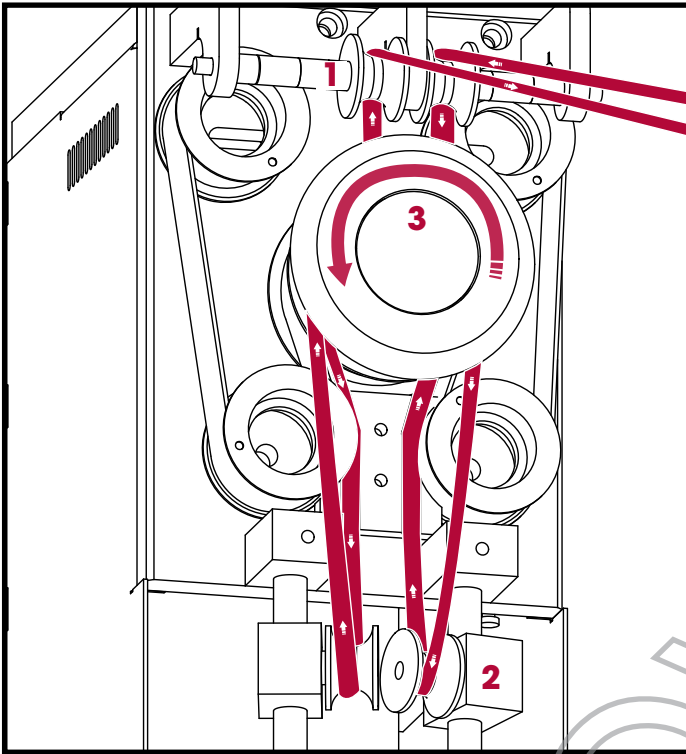


1 Remove the protective cover. Loosen the two M6 socket head screws with the socket head wrench.

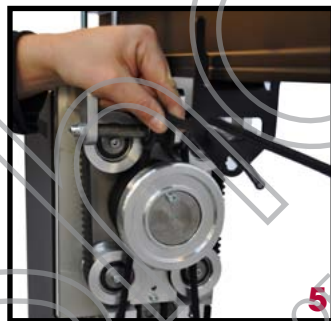
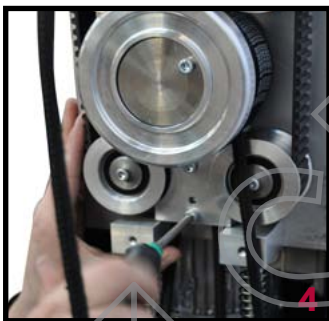
2 Next, remove the aluminum operating line guide plate.

Assembly

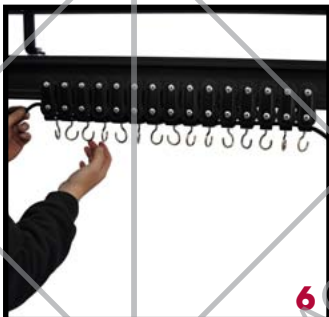
3 Thread the operating line



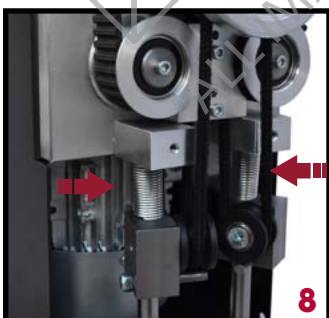
- 1** Place the operating line over the left/right guide wheel that serves as a guide pulley
- 2** Place the operating line over the tightening wheel on the bottom left/right side.
- 3** Place the operating line between the belt and the wheel while staying inside the operating line guide groove. Then, turn the hand wheel clockwise until the operating line appears on the other side.



- 4** Secure the guide plate in the correct position.
- 5** Thread the operating line further through the track as instructed



- 6** Thread the operating line through the ball raced runners
- 7** Through the return pulley and pilot release



- 8** Make sure the springs are completely tensioned.
- 9** Secure the protective cover in the correct position.

Assembly

4 Install the limit switches



Attach the two limit switches (including the installation plate) to the track on the positions where the curtains should stop.

Attention: The limit switches must be installed before starting up the unit to prevent motor blockage or slippage resulting in system damage.

5 Install the control panel



Attach the control panel to the track

6 Connect the motor to the control panel



Use the motor cable with the encoder link to connect the motor to the control panel.

7 Connect the remote control to the control panel



Connect the remote control to the control panel.

The remote control makes it simple to use and program the units, however, it's not essential for operation of the unit. When working solely through DMX channels and DMX keyboard, always use a dummy plug in the remote control outlet to ensure the unit remains in DMX mode.

Assembly

8 Connect the limit switches to the control panel



Connect the two limit switches to the control panel using the 3G/0,75 cable. Plug the 3p XLR end plug in the Endstop Input outlet of the control panel.

Attention: Ensure that any extra cable can't get in the way of operation by attaching it to the suspension pipe with tape, cable straps, or B2B Velcro.

9 Connect the control panel to the power outlet



Plug the power cable into the Power Input 220Vac outlet of the control board and then connect it to the power supply.

Attention: All connections must take place before powering up the unit. Unplug from the power supply before any maintenance to the unit.

10 Switch the TMC DMX Pro to manual control option



Use the remote control unit to switch the TMC DMX Pro system to the manual control option.

Assembly

11 Test the position of the limit switches



Manually test the position of the limit switches by testing which direction of motion will cause the curtain to stop. If necessary, change the position of the limit switches.

Attention: To prevent damage to the unit, never allow the master carriers to move beyond the end stops.

12 Test the general operation of the TMC system



Test the general operation of the TMC system. Confirm that the operating line is tensioned correctly by confirming that the springs are adequately tensioned.

13 Hang the curtain



Hang the curtain.

Assembly

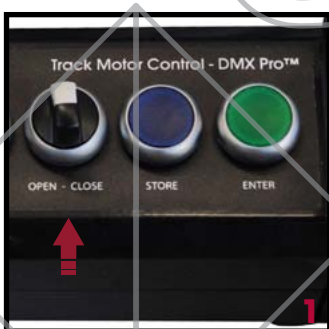
14 Set the soft limits

14.1 Set up with the remote control



- Use the "OPEN-CLOSE" button on the remote control to close the curtain. Now push the "STORE" button (blue) and keep it pressed in. Confirm this position by briefly pressing the "ENTER" button (green).
 - Next, open the curtain without releasing the "STORE" button.
 - When the curtain is in the desired position, press the "ENTER" button again briefly.
- Then you can release the "STORE" button.
- Both soft limits are now set at the correct position

14.2 Set up with the keypad on the control panel



- 1** Use the "OPEN-CLOSE" button on the remote control to close the curtain.
- 2** Press ◀ or ▶ on the control panel until "soft limit min" appears onscreen. Then press ◀ and ⬆ at the same time and confirm by pressing ↵
- 3** Next, press ◀ or ▶ until "soft limit max" appears on screen, then press ◀ and ⬆ at the same time and confirm by pressing ↵

Both soft limits are now set in the correct position.

Assembly

15 Connect the DMX cable to the control panel



Connect the DMX cable of the motor to the control panel

16 Program the DMX channels



The system requires 3 DMX-channels:

- Channel 1 and 2 determine the position of the curtain
- Channel 3 controls the curtain's speed of motion

Next set the correct DMX address by pressing on the button and the button until "DMX address" appears on screen (use the and buttons to adjust the DMX address) Press the button to confirm when you have arrived at the desired address. The DMX address is now programmed.

17 Switch the TMC DMX Pro to DMX control



Use the remote control unit to switch the TMC DMX Pro system to DMX control.

Care and Maintenance

- The TMC system has components that must be regularly checked, maintained, and replaced in order to ensure safety and keep it in good condition
- The best way to maintain the TMC system is to use it often. Each mechanical part should be used at least once a week. In this way irregular noises can be discovered in time.
- Do not allow any item to be operated or used if there is any question as to its safety or integrity. Accidents and injuries can be the result. Most accidents are the result of lack of training, complacency, and overconfidence. Do not assume anything.
- Follow the schedule outlined below as a minimum maintenance program. Once the operating personnel has had an opportunity to work with the system during the first year, additional procedures may be added or adjusted as is necessary depending on your facility requirements.

ITEM	WEKELIJKS	6 MAANDEN
Operate curtain tracks	X	
Listen for unusual carrier noise	X	
Check that the curtain tracks are operating smoothly		X
Inspect condition 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 attachments		X
Inspect track splices for alignment		X
Inspect track channel for debris and remove if required		X
Inspect connections of track to building structure		X

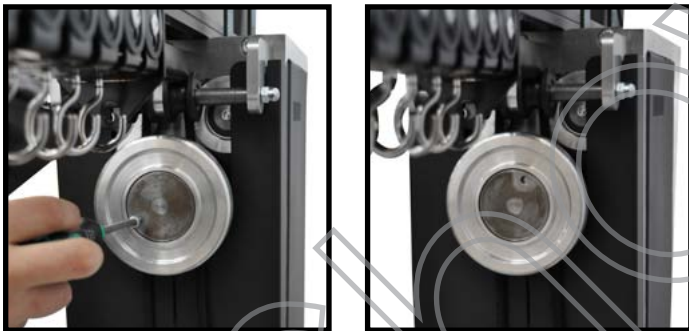
- The above maintenance schedule is recommended for normal operating conditions.
- Within 24 hours of using a recently installed system, confirm that the rope tension is at correct level for curtain movement.
- Above average use or location of curtain track in places with high humidity, dust, extreme temperature changes, etc. may require shorter intervals.
- Take the system down following the same steps and precautions as during installation.

Trouble Shooting

What to do if the curtain stops moving smoothly?

- Check for damage to the track. If found, repair.
- Check that all couplings are lined up without gaps. If necessary, realign.
- Joints between track should not be too loose or too tight to avoid a bowed track.
- Check for damage to runners. If necessary, replace damaged runners.
- If your track has a switching point, check that all parts are lined up correctly. If not, adjust alignment.
- Check for debris on the track or runners, if found, remove carefully.
- If the curtain slides out of the track, check if the end stops are loose or missing. If necessary, tighten or replace.

In case of power failure, the motor can be detached by loosening the bolt of the hand wheel to switch to manual wheel operation.



For more technical assistance please contact your local ShowTex office.
(see back cover of manual)



HAVE A GREAT SHOW!

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