

MIXER CONTROL (HELTZEL LIFT & TILT)

Part Number: 25626

DESCRIPTION:

This Heltzel Lift & Tilt mixer control option provides manual, semi-automatic and automatic control for the lift, tilt, lower, and right functions of a Heltzel Lift & Tilt mixer. Mixer control and IO vary, depending on model. Mixer electrical details are required.

OPERATION:

Automatic

Mixer Charging

If a mixer running input is assigned on the Mixers form, the batching system makes sure the mixer is running before automatically discharging materials into the mixer. The Mixer Right and Down limits must be on before materials can be discharged into the mixer. Materials are discharged into the mixer based on the sequence configuration.

Mixer Up

Once all materials have been discharged into the mixer, the mixer moves up until the Mixer Up limit is reached (if Mixer Up is set to automatic in the batching system), or the batching system is put into hold.

Mixer Tilt

When the Mixer Up limit is reached, and the mix time has elapsed, the mixer tilts (if Mixer Tilt is set to automatic in the batching system). If Mixer Tilt is set to semi-automatic (triggered), the mixer tilts when the Tilt button is pressed on the manual station. The mixer continues to tilt when in automatic or triggered mode based on the software's mixer discharge parameters until the Mixer Tilt limit is reached or the mixer is put into hold.

Mixer Right

Once the discharge time has elapsed, the batching system automatically rights the mixer (if Mixer Right is set to automatic). If Mixer Right is set to semi-automatic (triggered), the mixer rights when the Right button is pressed on the manual station. The mixer continues to right when in automatic or triggered mode until the Mixer Right limit is reached, or the mixer is put into hold.

Mixer Down

After the mixer has discharged, and the mixer has begun to right, the mixer moves down (if Mixer Down is set to automatic in the batching system) until the Mixer Down limit is reached or the batching system is put into hold.

Manual

Mixer/Hydraulic Motors

The mixer and hydraulic motors must be manually started (no standard automatic operation) by pressing the appropriate start buttons.

Mixer Up

If Mixer Up is set to manual, the Mixer Up button must be pressed until the Mixer Up limit is reached.

Mixer Tilt

If Mixer Tilt is set to manual, the Mixer Tilt button must be pressed when the mixer is ready to discharge until the Mixer Tilt limit is reached. (The mixer will tilt when the Mixer Tilt button is pressed even if the mixer is “not ready” to discharge.)

Mixer Right

If Mixer Right is set to manual, the Mixer Right button must be pressed after the mixer has discharged until the Mixer Right limit is reached. (The mixer will right when the Mixer Right button is pressed even if the mixer has not been discharged.)

Mixer Down

If Mixer Down is set to manual, the Mixer Down button must be pressed until the Mixer Down limit is reached.

SYSTEM REQUIREMENTS:

- Mixer Start - an unassigned pushbutton on the Manual Station or an external motor starter switch
- Mixer Stop - an unassigned pushbutton on the Manual Station or an external motor starter switch
- Hyd Start - an unassigned pushbutton on the Manual Station or an external motor starter switch
- Hyd Stop - an unassigned pushbutton on the Manual Station or an external motor starter switch
- Mixer Tilt Limit (opened) - an unassigned LED or pushbutton on the Manual Station
- Mixer Tilt (open) - an unassigned pushbutton on the Manual Station
- Mixer Right (close) – an unassigned pushbutton on the Manual Station
- Mixer Right Limit (closed) - an unassigned LED or pushbutton on the Manual Station
- Mixer Hold - an unassigned pushbutton on the Manual Station
- Lift Up Limit - an unassigned LED or pushbutton on the Manual Station
- Lift Down Limit - an unassigned LED or pushbutton on the Manual Station
- Mixer Up - an unassigned pushbutton on the Manual Station
- Mixer Down - an unassigned pushbutton on the Manual Station
- Mixer Right Activate – an unassigned location on the Manual Station
- Mixer Up Activate - an unassigned location on the Manual Station.

IMPLEMENTATION:

- Install the Opto module(s) in the correct slot(s) in the J-Box.
- Configure the Manual Station pushbuttons.
- Set up the mixer in the batching system software. Map the appropriate devices to the mixer, and configure sequences.

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