

# Convey Hawk Measuring Instructions

In order for Michel Industries to ensure that the Convey Hawk will fit and function properly on your specific trailer, we must first know the measurements of the trailer. For us to do this in a timely fashion we require the trailer to be measured using these instructions as a guide. It may also be helpful to get some pictures of different components. This way we can construct the trailer in our 3D modeling program and attach the conveyor to the modeled trailer. Then we can be sure there is enough room for the conveyor to fit between the hoppers and properly reach each hopper opening.

The measurements you give us are very important. There is a generic drawing of a trailer for reference on last page of these instructions. On the drawing there is a letter given for each measurement we require. Depending on the design of your trailer it may be that some measurements may not be needed. For example, on some trailers the locations of the crank handle ends up to be too close to the conveyor when the conveyor is down and in the proper operating position. On other trailers the crank handle is not even close to the conveyor. The more information we receive the better our model will be and the better the conveyor will fit and function on your trailer.

\*\*\*Note for some measurements it is important that the trailer be parked on a flat and level surface. \*\*\*

If the following pictures could be taken and sent to us it would help us understand all of the measurements better.

1. Drivers side view of the complete trailer. Same as the view on the diagram page.
2. Picture of the inside view between the hoppers. Bottom right view on the diagram page.
3. View of the upper hopper brace to see the profile and also the mounting of the bracket. (Welded or riveted?) Bottom center view in the diagram page.
4. Any wiring that could possibly be in the way.
5. Light brackets or anything hanging down from the bottom of the trailer rail. If there is anything hanging down, please give a description and provide measurements of where it is located.

It is important to note that the Convey Hawk will not work on all trailers. The more information we receive initially the better we are to analyse each trailer and ensure proper fit and finish the first time. Thank you for your cooperation and support in this measuring process.

Please send an email to [sales@michels.ca](mailto:sales@michels.ca) and attach the following;

The complete form on page 2 and 6, along with some pictures of the trailer. Helpful pictures include the upper cross members between the hoppers and anything that may be in the way of the operation of the Convey Hawk.

Phone # 1-306-366-2184

Fax # 1-306-366-2145

Michel's Industries, Ltd.  
St. Gregor, SK., Canada S0K 3X0  
PH: 306 366.2184 FX: 306 366.2145  
EM: sales@michels.ca  
www.michels.ca

**Measurement Descriptions**

- A. The overall length of the trailer. A\_\_\_\_\_
- B. The average height of the bottom of the rail to the ground. B\_\_\_\_\_ Note: T+U+J = B
- C. The width of the trailer. C\_\_\_\_\_
- D. From the inside of the hopper opening measure the width. D\_\_\_\_\_
- E. The length of the hopper opening on the inside. Mark the center of the opening on both the inside and the outside of the hopper. See Pictures. E\_\_\_\_\_
- F. The distance between the hopper centers. F\_\_\_\_\_
- G. The outside width of the slide holders/bearings. G\_\_\_\_\_
- H. The distance from center to center on the bearings. H\_\_\_\_\_
- I. This inside distance between the slide holders. I1\_\_\_\_\_
 

The distance between the chutes when both are fully opened. (If Chutes open to center) I2\_\_\_\_\_
- J. The distance from the bottom of the rail to the top of the chute slide. Use a straight edge. See Pictures. \_\_\_\_\_
- K. The distance from the top of the side to the bottom of the bearing holders. K\_\_\_\_\_
- L. The distance from the bottom of the rail to the bottom of each hopper brace. L1.\_\_\_\_L2.\_\_\_\_L3.\_\_\_\_
- M. The distance between the bottom of the hopper braces. M1 \_\_\_\_ M2 \_\_\_\_ M3 \_\_\_\_
- N. The width of the hopper braces and thickness. N1\_\_\_\_\_ N2\_\_\_\_\_ N3\_\_\_\_\_
- O. The distance between the hoppers inside slope at the rail height. Mark the center for Q. See Pictures O\_\_\_\_\_
- P. The distance from below the rail to the center of the crank handle shaft. P1\_\_\_\_\_ P2\_\_\_\_\_
- Q. The distance from the center mark made in Step O. to the center of the crank handle shaft. If both hoppers are on your trailer are not symmetrical (the center slopes angles are not the same) let us know. Q1\_\_\_\_\_ Q2\_\_\_\_\_
- R. The height from the bottom of the rail to the point where the hoppers meet. R\_\_\_\_\_
- S. Width of the outside rail. S\_\_\_\_\_
- T. The height of the lowest point of the chute. T\_\_\_\_\_
- U. The height of the chute rail. U\_\_\_\_\_

Description of the upper cross brace. This is the most likely place that the conveyor mounting hardware is going to be attached too. In most cases this will be between the rails of the trailer. Describe how these braces are mounted and the profile. Example (3" x 1-1/2" C channel. Extra brackets used to attach brace to outer rails, need to leave 2 inches of room from each rail.) \*\*\*Pictures of this brace are important. \*\*\* Also describe and measure any other possible things in the way, such as, chute openers, side marker light that hang down, or an air pressure gauge box. Is it possible to move these items?

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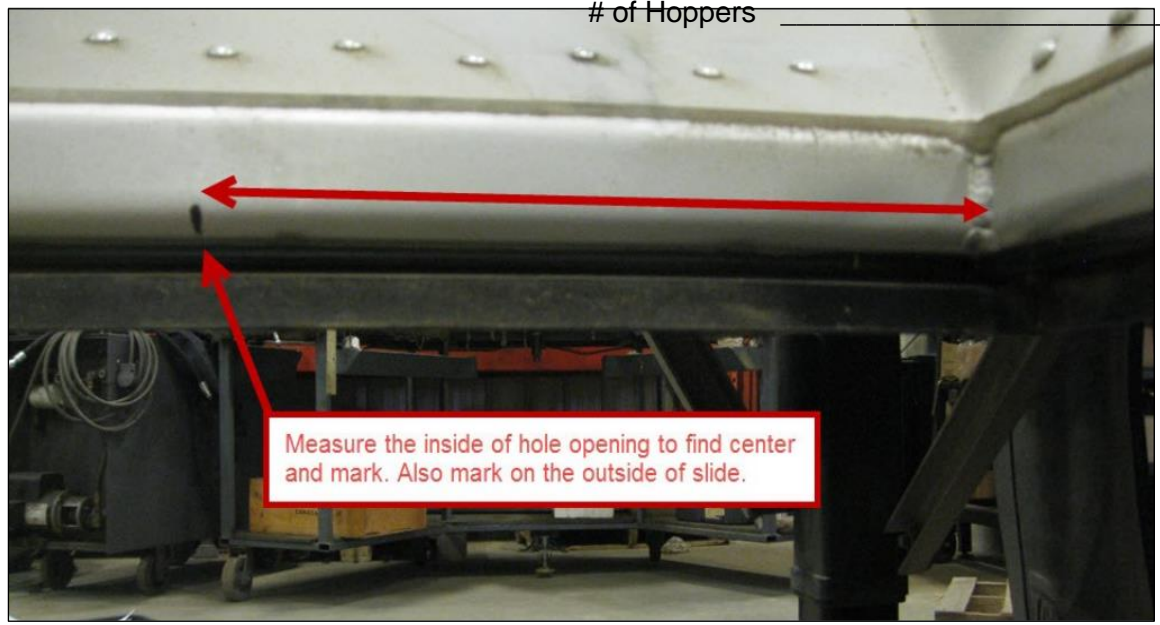
**Addition Information**

Customer Name: \_\_\_\_\_  
 Person Measuring: \_\_\_\_\_  
 Contact Number: \_\_\_\_\_  
 Email Address: \_\_\_\_\_

**Trailer Information**

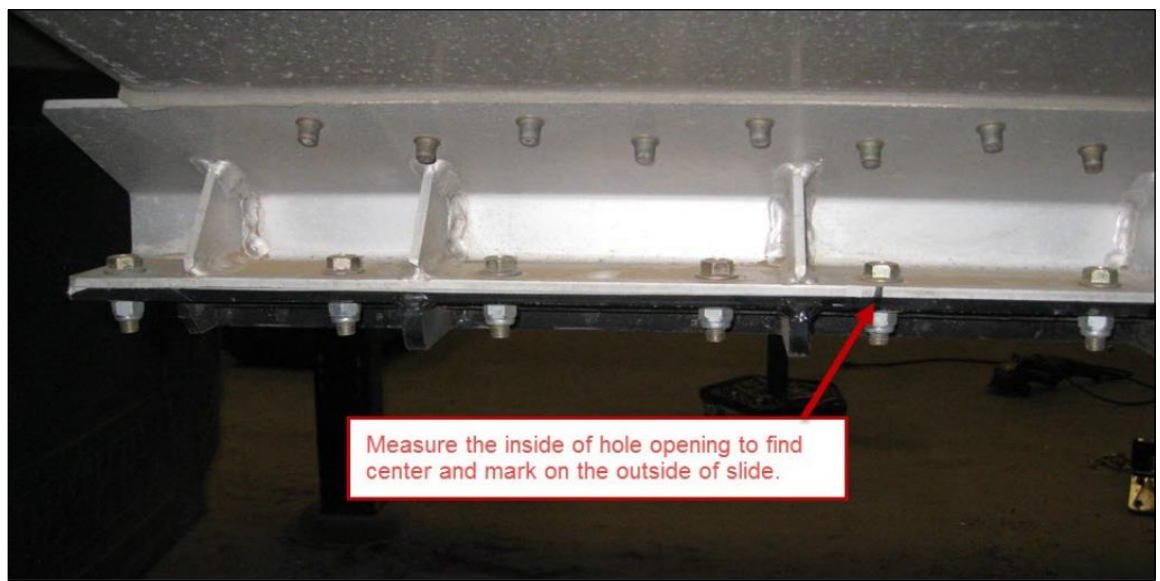
Trailer MFG \_\_\_\_\_  
 V.I.N. \_\_\_\_\_  
 Mfg Year \_\_\_\_\_  
 Type \_\_\_\_\_  
 # of Axles \_\_\_\_\_

**Step E**



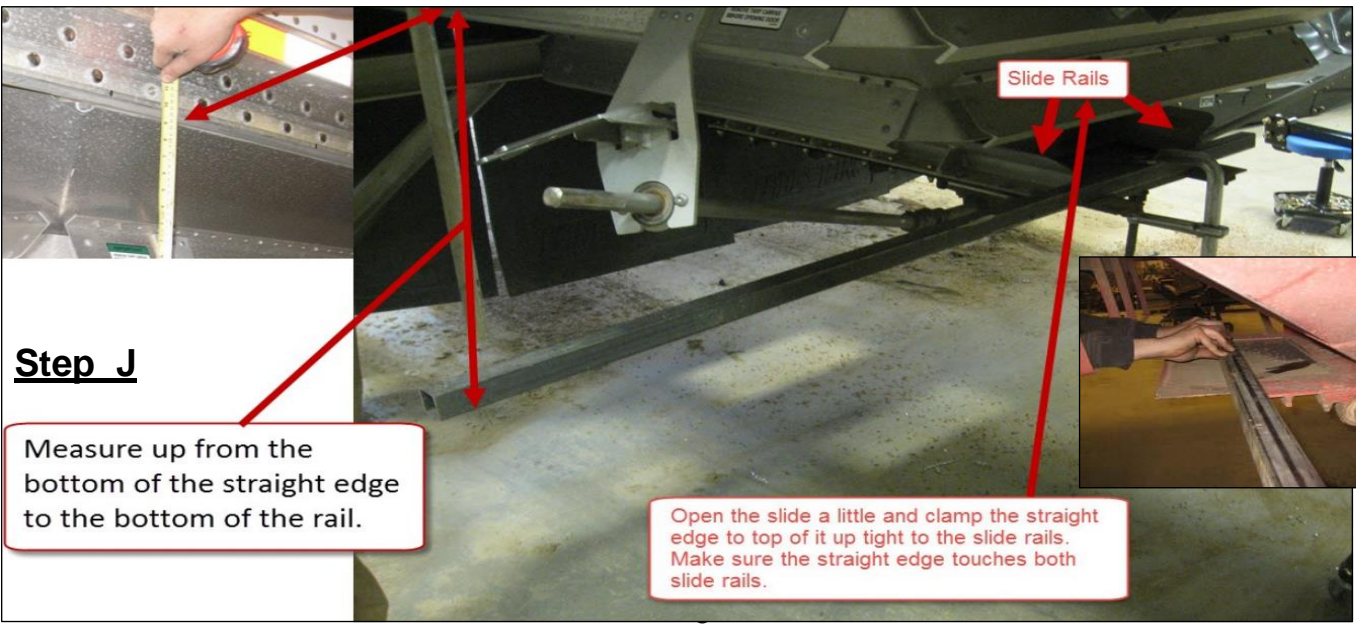
Measure the inside of hole opening to find center and mark. Also mark on the outside of slide.

**Step E& F**



Measure the inside of hole opening to find center and mark on the outside of slide.

**Step J**

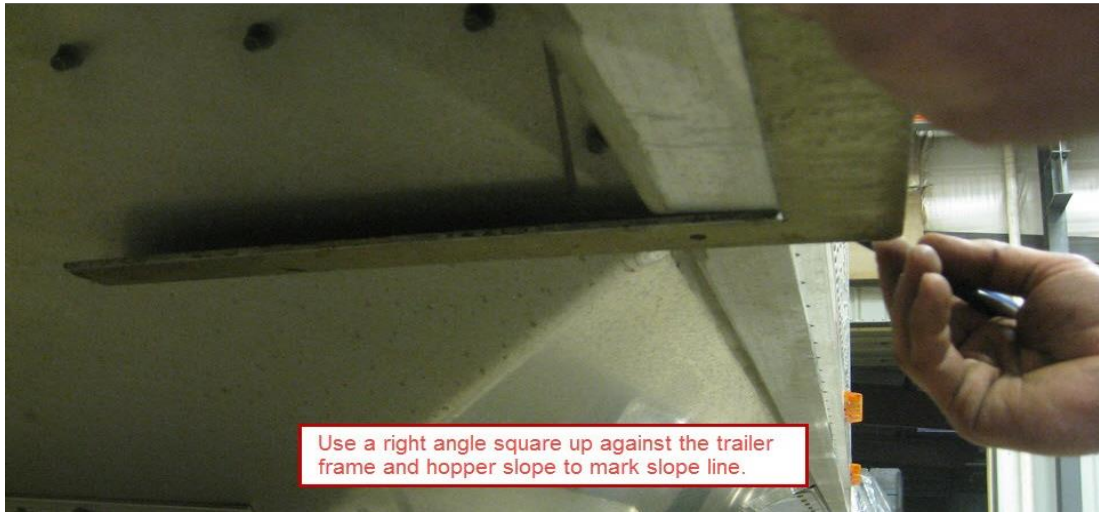


Measure up from the bottom of the straight edge to the bottom of the rail.

Open the slide a little and clamp the straight edge to top of it up tight to the slide rails. Make sure the straight edge touches both slide rails.

Slide Rails

**Step O**



**Step O**



**Step P&Q**





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