

Measuring Rollers & Frames





www.riteidler.com

Measuring the **Rite**Way

Measuring rollers, frames and complete idler assemblies can be tedious, difficult and confusing. Not only are these components often heavy, if they are still on your conveyor system it can be very awkward to try to get accurate and usable measurements. At Rite Idler, we understand this difficulty and have come up with a series of handy reference guides to help you take the important and correct measurements the first time to ensure that the *Rite* product is made for you.

The Rite Tools for the Job

There are only two essential tools required to measure frames.

Measuring tape. This is obviously the most important tool you need. Calipers or another unnecessarily precise tools are not necessary; a regular measuring tape which has millimeters and inches on it will work just fine.

Straight Edge. This can be anything from a piece of a steel rod to a ruler. It is used to help take more precise measurements where the components themselves get in the way of taking the measurement properly. Plus, it also makes taking the measurement much easier!

Helping Hand. If you have ever tried to measure a roll or frame on your own you know what were talking about. To be able to get accurate measurements easily you need more than two hands to do it. Grabbing a coworker will make this job much easier!

Bonus Tools

Tip: Measuring in millimeters rather than inches will provide more precise measurments to make your roll just **Rite!**



Angle Meter. This little device is easy to use and will save you from taking two of the more difficult measurements. It is used to measure a frame or idler angle.

Now that you have all the Rite tools for the job, grab one of our dimension sheets and a pen because we are ready to measure a frame!

Measuring A Roller

1. The first measurement you are going to take is the roll face. Take the measuring tape and measure from the edge of one side of the can to the edge on the other side of the can. This is measurement "A" on our dimension sheets.



2. Next, measure from the inside of the slot (of one shaft end) to the other inside slot of the other shaft end. You are going to need a second set of hands and your straight edges. On one side take the straight edge against the inside slot of the roll. Hold one end of the tape measure against it. The second person is going to do the same thing on the other side. This makes it easy to read the distance between the inside of the slots. This measurement is "B" on our dimension sheets.



3. The third measurement is the total length of this roll. Use the straight edges against the end of each roll. Then you will measure in between each of your straight edges. This will give you the total length of your roll. This is measurement "C" on our dimension sheets.



4. The last measurement we need from the main structure of the roll is the roll diameter. This can be taken by measuring across the width of the roll at one end as close to the middle as possible. This is measurement "D" on our dimension sheets.



Shaft end measurements are small so it will be more accurate if you measure from the 1cm (10mm) mark on your measuring tape so you can see all of the numbers! We are almost done! We need you to take a few shaft end measurements to ensure that your new roller will fit into your existing frame. Rite Idler has a variety of different shaft ends which we can screw in so we can give you the **Rite**fit for virtually any frame! 1. First we need the shaft diameter. To measure this you are going to take your measuring tape and measure the shaft end. (If the end of your roll is hexagonal in shape; do not measure from the points! Measure the diameter of the flat edges.) This is measurement "F" on our dimension sheets.



2. The second measurement to take on the shaft end is also the most important measurement since it will determine if the roll will fit into the frame. This measurement is the distance from the flat surface on one side of the shaft to the flat surface on the other side of the shaft. This measurement is "G" on our dimension sheets. If the end is double-slotted (this is rare) you will need to also record the other distance between the flats. This will be measurement "H" on our dimension sheets.





3. The last thing we need to measure the width of the flats. This is the distance from the inside of the slot to the outside of the slot. This is measurement "E" on our dimension sheets.



Congratulations! You have now finished measuring your roller the **Rite** way! Send us your completed dimension sheets and our dedicated sales team can get you exactly what you need!

Still not convinced that you can properly measure a roll? We will take the measurements for you! You can send us a sample of your roll or we can come visit you personally and take all the proper measurements to ensure a custom fit!



Measuring a Frame

1. The first and most important measurement you need to take when measuring a frame is the distance between the bolt hole-centers across the stringers. Put one end of the measuring tape against the right edge of the slot in the stringer and measure it to the right edge of the hole in the stringer on the other side of the conveyor. This is measurement "A" on our dimension sheets.



2. The next measurement you will need to take is the distance between the center brackets. Measure from the inside of one center bracket to the inside of the other center bracket. This is measurement "B" on our dimension sheets.



If you know that this frame is for an equal length idler, continue to step 4, if it is not or you are unsure continue on to step 3

3. Measure the distance between the inside of the center bracket and the inside of the end bracket. This is measurement "C" on our dimension sheets.



Next we are going to determine the angle of the frame. This can only be directly measured by using an angle meter. If you have an angle meter continue to step 6. Otherwise continue on to step 4.

4. Measure the distance between the inside of the tip of the end bracket to the inside tip of the other end bracket. This is measurement "E" on our dimension sheets.



5. Measure the distance between the tip of the end bracket to the bottom of the foot strap. It is important to make sure that you are measuring from the bottom of the foot strap. To make this measurement easier to take you can use a straight edge and lay it on the tip of the end bracket so that you can easily measure the distance. This is measurement "F" on our dimension sheet.



If you completed steps 4 & 5 continue to step 7.

6. To use the angle meter on a frame you will need to use a straight edge and place on the center bracket and end bracket as shown in the picture below. Place the angle meter on the straight edge and it will give you the frame's degree. This is measurement "D" on our dimension sheets.



7. Next you need to measure the slot width on the end bracket. Measure it from the inside edges. This is measurement "G" on our dimension sheets.



The last three measurements to be taken are on the foot strap

8. Measure the distance between the inside edges of the slot (on the foot strap). If it's <u>not</u> on the structure; measure from the inside edge of one slot to the inside edge of the other slot. If it <u>is</u> on the structure; measure from the center of one bolt to the center of the other bolt. This is measurement "X" on our dimension sheets.





9. Next we need the length of the foot strap. Measure the distance between the outside edges of the foot strap. This is measurement "Y" on our dimension sheets.



10. The last measurement you need to take on the frame is the width of the slit in the foot strap. Measure the distance between the inside edges. This is measurement "Z" on our dimension sheets.



Congratulations! You have now finished measuring your frame the **Rite** way! Send us your completed dimension sheets and our dedicated sales team can get you exactly what you need!

Still not convinced that you can properly measure a frame? We will take the measurements for you! You can send us your frame or we can come visit you personally and take all the proper measurements to ensure a custom fit!



You can always reach us at your local Rite Idler distributor!



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